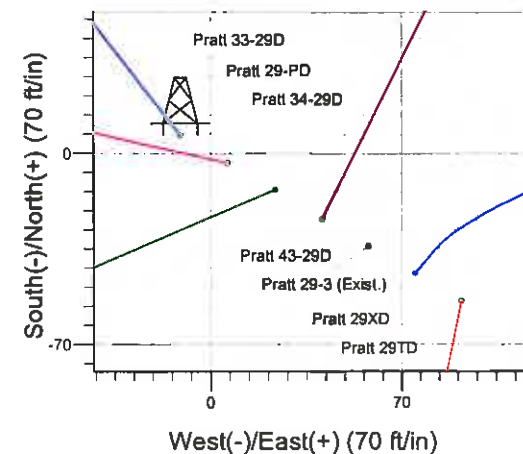
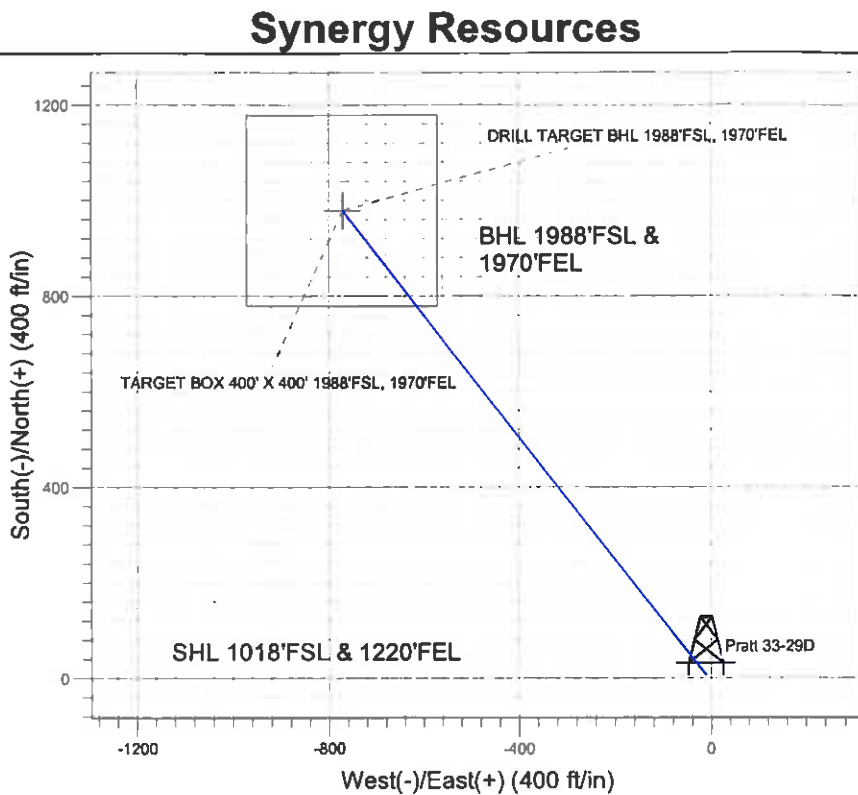
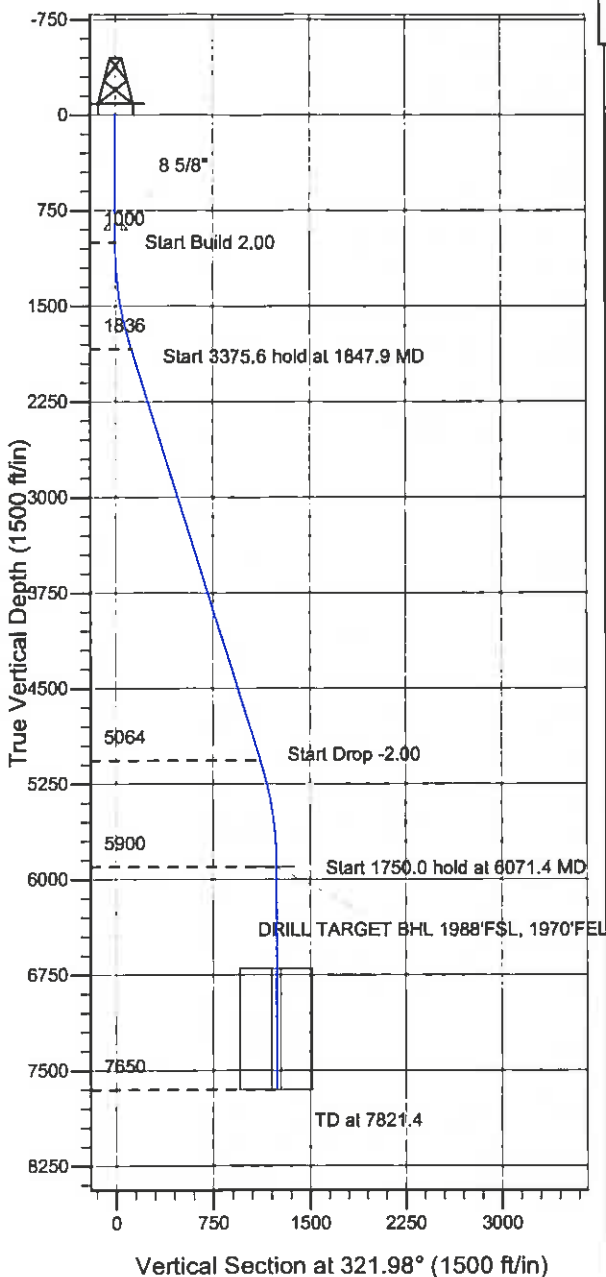


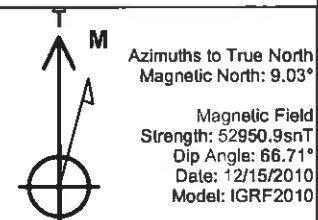
# ENSIGN

## Directional

Surface Location: Pratt 34-29D Pad Sec.29-T1N-R68W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
 Ground Elevation: 5179.0  
 +N/-S +E/-W Northing Easting Latitude Longitude Slot  
 6.5 -10.9 1249594.81 3133737.74 40° 1' 3.129 N 105° 1' 21.007 W  
 Original Well Elev WELL @ 5192.0ft (Original Well Elev)



Pratt 34-29D Pad Sec.29-T1N-R68W  
 Pratt 33-29D  
 Plan #1 (12-15-10)  
 16:49, December 15 2010



### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
DRILL TARGET BHL 1988'FSL, 1970'FEL	5900.0	978.5	-770.8	40° 1' 12.734 N	105° 1' 30.774 W	Point
TARGET BOX 400' X 400' 1988'FSL, 1970'FEL	6700.0	978.5	-770.8	40° 1' 12.734 N	105° 1' 30.774 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	6.5	-10.9	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	6.5	-10.9	0.00	0.00	0.0	
3	1847.9	16.96	321.98	1835.6	104.7	-87.6	2.00	321.98	124.6	
4	5223.5	16.96	321.98	5064.4	880.4	-694.1	0.00	0.00	1109.1	
5	6071.4	0.00	0.00	5900.0	978.5	-770.8	2.00	180.00	1233.7	DRILL TARGET BHL 1988'FSL, 1970'FEL
6	7821.4	0.00	0.00	7650.0	978.5	-770.8	0.00	0.00	1233.7	



## **Directional**

### **Synergy Resources**

**SEC.29-T1N-R68W**

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

**Pratt 33-29D**

**Wellbore #1**

**Plan: Plan #1 (12-15-10)**

## **Standard Planning Report**

**15 December, 2010**

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Site Pratt 34-29D Pad Sec.29-T1N-R68W
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 33-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-15-10)		

<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:	3,133,748.69 ft	Longitude:	105° 1' 20.867 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.31 °

Well	Pratt 33-29D					
Well Position	+N/-S	6.5 ft	Northing:	1,249,594.81 ft	Latitude:	40° 1' 3.129 N
	+E/-W	-10.9 ft	Easting:	3,133,737.74 ft	Longitude:	105° 1' 21.007 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,179.0 ft	

<b>Wellbore</b>	Wellbore #1			
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<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	12/15/2010	9.03	66.71	52,951

<b>Design</b>	Plan #1 (12-15-10)			
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<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	6.5	-10.9	321.98

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Buid Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.0	0.00	0.00	0.0	6.5	-10.9	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	6.5	-10.9	0.00	0.00	0.00	0.00	
1,847.9	16.96	321.98	1,835.6	104.7	-87.6	2.00	2.00	0.00	321.98	
5,223.5	16.96	321.98	5,064.4	880.4	-694.1	0.00	0.00	0.00	0.00	
6,071.4	0.00	0.00	5,900.0	978.5	-770.8	2.00	-2.00	0.00	180.00	DRILL TARGET BH-
7,821.4	0.00	0.00	7,650.0	978.5	-770.8	0.00	0.00	0.00	0.00	

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Site Pratt 34-29D Pad Sec.29-T1N-R68W
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 33-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-15-10)		

#### 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	6.5	-10.9	0.0	0.00	0.00	0.00
40.0	0.00	0.00	40.0	6.5	-10.9	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	6.5	-10.9	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	6.5	-10.9	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	6.5	-10.9	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	6.5	-10.9	0.0	0.00	0.00	0.00
240.0	0.00	0.00	240.0	6.5	-10.9	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	6.5	-10.9	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	6.5	-10.9	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	6.5	-10.9	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	6.5	-10.9	0.0	0.00	0.00	0.00
440.0	0.00	0.00	440.0	6.5	-10.9	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	6.5	-10.9	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	6.5	-10.9	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	6.5	-10.9	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	6.5	-10.9	0.0	0.00	0.00	0.00
640.0	0.00	0.00	640.0	6.5	-10.9	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	6.5	-10.9	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	6.5	-10.9	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	6.5	-10.9	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	6.5	-10.9	0.0	0.00	0.00	0.00
840.0	0.00	0.00	840.0	6.5	-10.9	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	6.5	-10.9	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	6.5	-10.9	0.0	0.00	0.00	0.00
8 5/8"									
920.0	0.00	0.00	920.0	6.5	-10.9	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	6.5	-10.9	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	6.5	-10.9	0.0	0.00	0.00	0.00
1,040.0	0.80	321.98	1,040.0	6.8	-11.1	0.3	2.00	2.00	0.00
1,080.0	1.60	321.98	1,080.0	7.4	-11.6	1.1	2.00	2.00	0.00
1,120.0	2.40	321.98	1,120.0	8.5	-12.5	2.5	2.00	2.00	0.00
1,160.0	3.20	321.98	1,159.9	10.1	-13.7	4.5	2.00	2.00	0.00
1,200.0	4.00	321.98	1,199.8	12.0	-15.2	7.0	2.00	2.00	0.00
1,240.0	4.80	321.98	1,239.7	14.5	-17.1	10.0	2.00	2.00	0.00
1,280.0	5.60	321.98	1,279.6	17.3	-19.3	13.7	2.00	2.00	0.00
1,320.0	6.40	321.98	1,319.3	20.6	-21.9	17.9	2.00	2.00	0.00
1,360.0	7.20	321.98	1,359.1	24.3	-24.8	22.6	2.00	2.00	0.00
1,400.0	8.00	321.98	1,398.7	28.5	-28.1	27.9	2.00	2.00	0.00
1,440.0	8.80	321.98	1,438.3	33.1	-31.7	33.7	2.00	2.00	0.00
1,480.0	9.60	321.98	1,477.8	38.2	-35.6	40.1	2.00	2.00	0.00
1,520.0	10.40	321.98	1,517.1	43.6	-39.9	47.1	2.00	2.00	0.00
1,560.0	11.20	321.98	1,556.4	49.5	-44.5	54.6	2.00	2.00	0.00
1,600.0	12.00	321.98	1,595.6	55.9	-49.5	62.6	2.00	2.00	0.00
1,640.0	12.80	321.98	1,634.7	62.6	-54.8	71.2	2.00	2.00	0.00
1,680.0	13.60	321.98	1,673.6	69.8	-60.4	80.3	2.00	2.00	0.00
1,720.0	14.40	321.98	1,712.4	77.5	-66.4	90.0	2.00	2.00	0.00
1,760.0	15.20	321.98	1,751.1	85.5	-72.7	100.2	2.00	2.00	0.00
1,800.0	16.00	321.98	1,789.6	94.0	-79.3	111.0	2.00	2.00	0.00
1,840.0	16.80	321.98	1,828.0	102.9	-86.2	122.3	2.00	2.00	0.00
1,847.9	16.96	321.98	1,835.6	104.7	-87.6	124.6	2.00	2.00	0.00
1,880.0	16.96	321.98	1,866.3	112.1	-93.4	133.9	0.00	0.00	0.00
1,920.0	16.96	321.98	1,904.5	121.2	-100.6	145.6	0.00	0.00	0.00
1,960.0	16.96	321.98	1,942.8	130.4	-107.8	157.3	0.00	0.00	0.00
2,000.0	16.96	321.98	1,981.1	139.6	-115.0	168.9	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Site Pratt 34-29D Pad Sec.29-T1N-R68W
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 33-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-15-10)		

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Bulld Rate (°/100ft)	Turn Rate (°/100ft)
2,040.0	16.96	321.98	2,019.3	148.8	-122.2	180.6	0.00	0.00	0.00
2,080.0	16.96	321.98	2,057.6	158.0	-129.3	192.3	0.00	0.00	0.00
2,120.0	16.96	321.98	2,095.8	167.2	-136.5	203.9	0.00	0.00	0.00
2,160.0	16.96	321.98	2,134.1	176.4	-143.7	215.6	0.00	0.00	0.00
2,200.0	16.96	321.98	2,172.4	185.6	-150.9	227.3	0.00	0.00	0.00
2,240.0	16.96	321.98	2,210.6	194.8	-158.1	238.9	0.00	0.00	0.00
2,280.0	16.96	321.98	2,248.9	204.0	-165.3	250.6	0.00	0.00	0.00
2,320.0	16.96	321.98	2,287.1	213.2	-172.5	262.3	0.00	0.00	0.00
2,360.0	16.96	321.98	2,325.4	222.4	-179.6	273.9	0.00	0.00	0.00
2,400.0	16.96	321.98	2,363.7	231.5	-186.8	285.6	0.00	0.00	0.00
2,440.0	16.96	321.98	2,401.9	240.7	-194.0	297.3	0.00	0.00	0.00
2,480.0	16.96	321.98	2,440.2	249.9	-201.2	308.9	0.00	0.00	0.00
2,520.0	16.96	321.98	2,478.5	259.1	-208.4	320.6	0.00	0.00	0.00
2,560.0	16.96	321.98	2,516.7	268.3	-215.6	332.3	0.00	0.00	0.00
2,600.0	16.96	321.98	2,555.0	277.5	-222.8	343.9	0.00	0.00	0.00
2,640.0	16.96	321.98	2,593.2	286.7	-229.9	355.6	0.00	0.00	0.00
2,680.0	16.96	321.98	2,631.5	295.9	-237.1	367.3	0.00	0.00	0.00
2,720.0	16.96	321.98	2,669.8	305.1	-244.3	378.9	0.00	0.00	0.00
2,760.0	16.96	321.98	2,708.0	314.3	-251.5	390.6	0.00	0.00	0.00
2,800.0	16.96	321.98	2,746.3	323.5	-258.7	402.3	0.00	0.00	0.00
2,840.0	16.96	321.98	2,784.5	332.7	-265.9	413.9	0.00	0.00	0.00
2,880.0	16.96	321.98	2,822.8	341.8	-273.1	425.6	0.00	0.00	0.00
2,920.0	16.96	321.98	2,861.1	351.0	-280.2	437.3	0.00	0.00	0.00
2,960.0	16.96	321.98	2,899.3	360.2	-287.4	448.9	0.00	0.00	0.00
3,000.0	16.96	321.98	2,937.6	369.4	-294.6	460.6	0.00	0.00	0.00
3,040.0	16.96	321.98	2,975.8	378.6	-301.8	472.3	0.00	0.00	0.00
3,080.0	16.96	321.98	3,014.1	387.8	-309.0	483.9	0.00	0.00	0.00
3,120.0	16.96	321.98	3,052.4	397.0	-316.2	495.6	0.00	0.00	0.00
3,160.0	16.96	321.98	3,090.6	406.2	-323.4	507.3	0.00	0.00	0.00
3,200.0	16.96	321.98	3,128.9	415.4	-330.5	518.9	0.00	0.00	0.00
3,240.0	16.96	321.98	3,167.1	424.6	-337.7	530.6	0.00	0.00	0.00
3,280.0	16.96	321.98	3,205.4	433.8	-344.9	542.3	0.00	0.00	0.00
3,320.0	16.96	321.98	3,243.7	443.0	-352.1	553.9	0.00	0.00	0.00
3,360.0	16.96	321.98	3,281.9	452.1	-359.3	565.6	0.00	0.00	0.00
3,400.0	16.96	321.98	3,320.2	461.3	-366.5	577.3	0.00	0.00	0.00
3,440.0	16.96	321.98	3,358.4	470.5	-373.7	588.9	0.00	0.00	0.00
3,480.0	16.96	321.98	3,396.7	479.7	-380.8	600.6	0.00	0.00	0.00
3,520.0	16.96	321.98	3,435.0	488.9	-388.0	612.3	0.00	0.00	0.00
3,560.0	16.96	321.98	3,473.2	498.1	-395.2	623.9	0.00	0.00	0.00
3,600.0	16.96	321.98	3,511.5	507.3	-402.4	635.6	0.00	0.00	0.00
3,640.0	16.96	321.98	3,549.7	516.5	-409.6	647.3	0.00	0.00	0.00
3,680.0	16.96	321.98	3,588.0	525.7	-416.8	658.9	0.00	0.00	0.00
3,720.0	16.96	321.98	3,626.3	534.9	-424.0	670.6	0.00	0.00	0.00
3,760.0	16.96	321.98	3,664.5	544.1	-431.1	682.3	0.00	0.00	0.00
3,800.0	16.96	321.98	3,702.8	553.2	-438.3	693.9	0.00	0.00	0.00
3,840.0	16.96	321.98	3,741.1	562.4	-445.5	705.6	0.00	0.00	0.00
3,880.0	16.96	321.98	3,779.3	571.6	-452.7	717.3	0.00	0.00	0.00
3,920.0	16.96	321.98	3,817.6	580.8	-459.9	728.9	0.00	0.00	0.00
3,960.0	16.96	321.98	3,855.8	590.0	-467.1	740.6	0.00	0.00	0.00
4,000.0	16.96	321.98	3,894.1	599.2	-474.3	752.3	0.00	0.00	0.00
4,040.0	16.96	321.98	3,932.4	608.4	-481.4	763.9	0.00	0.00	0.00
4,080.0	16.96	321.98	3,970.6	617.6	-488.6	775.6	0.00	0.00	0.00
4,120.0	16.96	321.98	4,008.9	626.8	-495.8	787.3	0.00	0.00	0.00
4,160.0	16.96	321.98	4,047.1	636.0	-503.0	798.9	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Site Pratt 34-29D Pad Sec.29-T1N-R68W
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 33-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-15-10)		

### 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	16.96	321.98	4,085.4	645.2	-510.2	810.6	0.00	0.00	0.00
4,240.0	16.96	321.98	4,123.7	654.4	-517.4	822.3	0.00	0.00	0.00
4,280.0	16.96	321.98	4,161.9	663.5	-524.6	833.9	0.00	0.00	0.00
4,320.0	16.96	321.98	4,200.2	672.7	-531.7	845.6	0.00	0.00	0.00
4,360.0	16.96	321.98	4,238.4	681.9	-538.9	857.3	0.00	0.00	0.00
4,400.0	16.96	321.98	4,276.7	691.1	-546.1	868.9	0.00	0.00	0.00
4,440.0	16.96	321.98	4,315.0	700.3	-553.3	880.6	0.00	0.00	0.00
4,480.0	16.96	321.98	4,353.2	709.5	-560.5	892.3	0.00	0.00	0.00
4,520.0	16.96	321.98	4,391.5	718.7	-567.7	903.9	0.00	0.00	0.00
4,560.0	16.96	321.98	4,429.7	727.9	-574.9	915.6	0.00	0.00	0.00
4,600.0	16.96	321.98	4,468.0	737.1	-582.0	927.3	0.00	0.00	0.00
4,640.0	16.96	321.98	4,506.3	746.3	-589.2	939.0	0.00	0.00	0.00
4,680.0	16.96	321.98	4,544.5	755.5	-596.4	950.6	0.00	0.00	0.00
4,720.0	16.96	321.98	4,582.8	764.7	-603.6	962.3	0.00	0.00	0.00
4,760.0	16.96	321.98	4,621.0	773.8	-610.8	974.0	0.00	0.00	0.00
4,800.0	16.96	321.98	4,659.3	783.0	-618.0	985.6	0.00	0.00	0.00
4,840.0	16.96	321.98	4,697.6	792.2	-625.2	997.3	0.00	0.00	0.00
4,880.0	16.96	321.98	4,735.8	801.4	-632.3	1,009.0	0.00	0.00	0.00
4,920.0	16.96	321.98	4,774.1	810.6	-639.5	1,020.6	0.00	0.00	0.00
4,960.0	16.96	321.98	4,812.4	819.8	-646.7	1,032.3	0.00	0.00	0.00
5,000.0	16.96	321.98	4,850.6	829.0	-653.9	1,044.0	0.00	0.00	0.00
5,040.0	16.96	321.98	4,888.9	838.2	-661.1	1,055.6	0.00	0.00	0.00
5,080.0	16.96	321.98	4,927.1	847.4	-668.3	1,067.3	0.00	0.00	0.00
5,120.0	16.96	321.98	4,965.4	856.6	-675.5	1,079.0	0.00	0.00	0.00
5,160.0	16.96	321.98	5,003.7	865.8	-682.6	1,090.6	0.00	0.00	0.00
5,200.0	16.96	321.98	5,041.9	874.9	-689.8	1,102.3	0.00	0.00	0.00
5,223.5	16.96	321.98	5,064.4	880.4	-694.1	1,109.1	0.00	0.00	0.00
5,240.0	16.63	321.98	5,080.2	884.1	-697.0	1,113.9	2.00	-2.00	0.00
5,280.0	15.83	321.98	5,118.6	892.9	-703.9	1,125.1	2.00	-2.00	0.00
5,320.0	15.03	321.98	5,157.2	901.3	-710.4	1,135.7	2.00	-2.00	0.00
5,360.0	14.23	321.98	5,195.9	909.3	-716.7	1,145.8	2.00	-2.00	0.00
5,400.0	13.43	321.98	5,234.7	916.8	-722.5	1,155.4	2.00	-2.00	0.00
5,440.0	12.63	321.98	5,273.7	923.9	-728.1	1,164.4	2.00	-2.00	0.00
5,480.0	11.83	321.98	5,312.8	930.6	-733.3	1,172.9	2.00	-2.00	0.00
5,520.0	11.03	321.98	5,352.0	936.8	-738.2	1,180.8	2.00	-2.00	0.00
5,560.0	10.23	321.98	5,391.3	942.6	-742.7	1,188.2	2.00	-2.00	0.00
5,600.0	9.43	321.98	5,430.7	948.0	-746.9	1,195.0	2.00	-2.00	0.00
5,640.0	8.63	321.98	5,470.2	952.9	-750.8	1,201.3	2.00	-2.00	0.00
5,680.0	7.83	321.98	5,509.8	957.5	-754.3	1,207.0	2.00	-2.00	0.00
5,720.0	7.03	321.98	5,549.4	961.5	-757.5	1,212.2	2.00	-2.00	0.00
5,760.0	6.23	321.98	5,589.2	965.2	-760.4	1,216.8	2.00	-2.00	0.00
5,800.0	5.43	321.98	5,629.0	968.4	-762.9	1,220.9	2.00	-2.00	0.00
5,840.0	4.63	321.98	5,668.8	971.1	-765.0	1,224.4	2.00	-2.00	0.00
5,880.0	3.83	321.98	5,708.7	973.5	-766.8	1,227.3	2.00	-2.00	0.00
5,920.0	3.03	321.98	5,748.6	975.3	-768.3	1,229.7	2.00	-2.00	0.00
5,960.0	2.23	321.98	5,788.6	976.8	-769.4	1,231.5	2.00	-2.00	0.00
6,000.0	1.43	321.98	5,828.6	977.8	-770.2	1,232.8	2.00	-2.00	0.00
6,040.0	0.63	321.98	5,868.6	978.4	-770.7	1,233.5	2.00	-2.00	0.00
6,071.4	0.00	0.00	5,900.0	978.5	-770.8	1,233.7	2.00	-2.00	0.00
<b>DRILL TARGET BHL 1988'FSL, 1970'FEL</b>									
6,080.0	0.00	0.00	5,908.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,120.0	0.00	0.00	5,948.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,160.0	0.00	0.00	5,988.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,028.6	978.5	-770.8	1,233.7	0.00	0.00	0.00



<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Site Pratt 34-29D Pad Sec.29-T1N-R68W
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 33-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-15-10)		

### 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	6,068.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,280.0	0.00	0.00	6,108.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,320.0	0.00	0.00	6,148.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,360.0	0.00	0.00	6,188.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,228.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,440.0	0.00	0.00	6,268.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,480.0	0.00	0.00	6,308.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,520.0	0.00	0.00	6,348.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,560.0	0.00	0.00	6,388.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,428.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,640.0	0.00	0.00	6,468.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,680.0	0.00	0.00	6,508.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,720.0	0.00	0.00	6,548.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,760.0	0.00	0.00	6,588.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,628.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,840.0	0.00	0.00	6,668.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,871.4	0.00	0.00	6,700.0	978.5	-770.8	1,233.7	0.00	0.00	0.00
<b>TARGET BOX 400' X 400' 1988'FSL, 1970'FEL</b>									
6,880.0	0.00	0.00	6,708.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,920.0	0.00	0.00	6,748.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
6,960.0	0.00	0.00	6,788.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,828.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,040.0	0.00	0.00	6,868.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,080.0	0.00	0.00	6,908.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,120.0	0.00	0.00	6,948.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,160.0	0.00	0.00	6,988.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,028.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,240.0	0.00	0.00	7,068.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,280.0	0.00	0.00	7,108.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,320.0	0.00	0.00	7,148.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,360.0	0.00	0.00	7,188.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,228.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,440.0	0.00	0.00	7,268.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,480.0	0.00	0.00	7,308.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,520.0	0.00	0.00	7,348.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,560.0	0.00	0.00	7,388.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,428.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,640.0	0.00	0.00	7,468.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,680.0	0.00	0.00	7,508.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,720.0	0.00	0.00	7,548.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,760.0	0.00	0.00	7,588.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,628.6	978.5	-770.8	1,233.7	0.00	0.00	0.00
7,821.4	0.00	0.00	7,650.0	978.5	-770.8	1,233.7	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Site Pratt 34-29D Pad Sec.29-T1N-R68W
<b>Company:</b>	Synergy Resources	<b>TVD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Project:</b>	SEC.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	Pratt 33-29D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (12-15-10)		

#### 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)		
DRILL TARGET BHL	0.00	0.00	5,900.0	978.5	-770.8	1,250,562.61	3,132,972.68	40° 1' 12.734 N	105° 1' 30.774 W
- plan hits target center									
- Point									
TARGET BOX 400' X	0.00	0.00	6,700.0	978.5	-770.8	1,250,562.61	3,132,972.68	40° 1' 12.734 N	105° 1' 30.774 W
- plan hits target center									
- Rectangle (sides W400.0 H400.0 D950.0)									

#### Casing Points

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





## **Directional**

### **Synergy Resources**

**SEC.29-T1N-R68W**

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

**Pratt 33-29D**

**Wellbore #1**

**Plan #1 (12-15-10)**

## **Anticollision Report**

**15 December, 2010**

<b>Company:</b>	Synergy Resources	<b>Local Co-ordinate Reference:</b>	Site Pratt 34-29D Pad Sec.29-T1N-R68W
<b>Project:</b>	SEC.29-T1N-R68W	<b>TVD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Reference Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 33-29D	<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>	Landmark
<b>Reference Design:</b>	Plan #1 (12-15-10)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Plan #1 (12-15-10)		
<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> 12/15/2010			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	7,821.4	Plan #1 (12-15-10) (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>
Offset Well - Wellbore - Design						
Pratt 34-29D Pad Sec.29-T1N-R68W						
Pratt 29-PD - Wellbore #1 - Plan #1 (12-15-10)	1,000.0	1,001.0	19.9	15.7	4.689 CC, ES	
Pratt 29-PD - Wellbore #1 - Plan #1 (12-15-10)	1,100.0	1,101.0	21.5	16.8	4.593 SF	

Offset Design      Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29-PD - Wellbore #1 - Plan #1 (12-15-10)												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 Centres +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor
0.0	0.0	1.0	1.0	0.0	0.0	120.84	-3.7	6.2	19.9				
100.0	100.0	101.0	101.0	0.1	0.1	120.84	-3.7	6.2	19.9	19.7	0.20	100.603	
200.0	200.0	201.0	201.0	0.3	0.3	120.84	-3.7	6.2	19.9	19.3	0.65	30.740	
300.0	300.0	301.0	301.0	0.5	0.5	120.84	-3.7	6.2	19.9	18.8	1.10	18.142	
400.0	400.0	401.0	401.0	0.8	0.8	120.84	-3.7	6.2	19.9	18.4	1.55	12.868	
500.0	500.0	501.0	501.0	1.0	1.0	120.84	-3.7	6.2	19.9	17.9	2.00	9.970	
600.0	600.0	601.0	601.0	1.2	1.2	120.84	-3.7	6.2	19.9	17.5	2.45	8.137	
700.0	700.0	701.0	701.0	1.4	1.4	120.84	-3.7	6.2	19.9	17.0	2.89	6.874	
800.0	800.0	801.0	801.0	1.7	1.7	120.84	-3.7	6.2	19.9	16.6	3.34	5.950	
900.0	900.0	901.0	901.0	1.9	1.9	120.84	-3.7	6.2	19.9	16.1	3.79	5.245	
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	120.84	-3.7	6.2	19.9	15.7	4.24	4.689 CC, ES	
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.3	160.52	-3.7	6.2	21.5	16.8	4.69	4.593 SF	
1,200.0	1,199.8	1,200.8	1,200.8	2.6	2.6	164.26	-3.7	6.2	26.5	21.4	5.13	5.172	
1,300.0	1,299.5	1,301.5	1,301.5	2.8	2.8	169.57	-3.3	4.4	33.4	27.9	5.55	6.018	
1,400.0	1,398.7	1,402.2	1,402.1	3.0	3.0	176.28	-2.1	-0.8	41.1	35.1	5.97	6.883	
1,500.0	1,497.5	1,502.9	1,502.3	3.3	3.2	-176.58	-0.2	-9.4	49.9	43.6	6.39	7.816	
1,600.0	1,595.6	1,603.5	1,602.1	3.6	3.5	-169.63	2.6	-21.5	60.5	53.6	6.84	8.841	
1,700.0	1,693.1	1,703.8	1,701.3	4.0	3.7	-163.23	6.0	-37.0	72.9	65.6	7.33	9.943	
1,800.0	1,789.6	1,803.9	1,799.5	4.4	4.0	-157.51	10.2	-55.7	87.5	79.6	7.90	11.076	
1,847.9	1,835.6	1,851.8	1,846.2	4.6	4.2	-155.03	12.5	-65.9	95.2	87.0	8.20	11.607	
1,900.0	1,885.4	1,903.7	1,896.7	4.9	4.4	-152.46	15.2	-77.8	103.8	95.2	8.58	12.103	
2,000.0	1,981.1	2,003.4	1,992.9	5.4	4.8	-147.40	20.8	-103.0	119.9	110.5	9.40	12.759	
2,100.0	2,076.7	2,102.7	2,087.8	5.9	5.3	-142.15	27.2	-131.5	135.8	125.5	10.35	13.124	
2,200.0	2,172.4	2,201.4	2,181.2	6.4	5.8	-136.78	34.2	-162.9	152.0	140.6	11.43	13.302	
2,300.0	2,268.0	2,299.4	2,272.6	7.0	6.4	-131.35	41.9	-197.2	169.1	156.4	12.63	13.389	

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>	Site Pratt 34-29D Pad Sec.29-T1N-R68W
<b>Project:</b>	SEC.29-T1N-R68W	<b>TVD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Reference Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 33-29D	<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>	Landmark
<b>Reference Design:</b>	Plan #1 (12-15-10)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29-PD - Wellbore #1 - Plan #1 (12-15-10)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
2,400.0	2,363.7	2,396.5	2,362.5	7.5	7.1	-126.33	50.0	-233.0	187.4	173.5	13.89	13.487		
2,500.0	2,459.3	2,493.6	2,452.3	8.1	7.8	-122.21	58.0	-268.8	208.9	191.7	15.17	13.641		
2,600.0	2,555.0	2,590.6	2,542.2	8.6	8.5	-118.80	66.0	-304.7	227.2	210.8	18.43	13.826		
2,700.0	2,650.6	2,687.7	2,632.1	9.2	9.2	-115.95	74.0	-340.5	248.2	230.5	17.70	14.025		
2,800.0	2,746.3	2,784.8	2,721.9	9.8	9.9	-113.54	82.1	-376.4	269.7	250.8	18.96	14.229		
2,900.0	2,841.9	2,881.9	2,811.8	10.4	10.6	-111.49	90.1	-412.2	291.6	271.4	20.21	14.431		
3,000.0	2,937.6	2,978.9	2,901.6	10.9	11.4	-109.73	98.1	-448.0	313.8	292.4	21.46	14.627		
3,100.0	3,033.2	3,076.0	2,991.5	11.5	12.1	-108.19	106.2	-483.9	336.3	313.6	22.70	14.815		
3,200.0	3,128.9	3,173.1	3,081.3	12.1	12.9	-106.85	114.2	-519.7	358.9	335.0	23.94	14.993		
3,300.0	3,224.5	3,270.2	3,171.2	12.7	13.6	-105.67	122.2	-555.6	381.8	356.6	25.18	15.163		
3,400.0	3,320.2	3,367.2	3,261.1	13.3	14.4	-104.82	130.3	-591.4	404.7	378.3	26.41	15.323		
3,500.0	3,415.8	3,464.3	3,350.9	13.9	15.2	-103.68	138.3	-627.3	427.8	400.2	27.65	15.474		
3,600.0	3,511.5	3,561.4	3,440.8	14.5	15.9	-102.84	146.3	-663.1	451.0	422.1	28.88	15.616		
3,700.0	3,607.1	3,658.5	3,530.6	15.1	16.7	-102.08	154.4	-698.9	474.2	444.1	30.11	15.750		
3,800.0	3,702.8	3,755.5	3,620.5	15.7	17.5	-101.39	162.4	-734.8	497.6	466.2	31.34	15.877		
3,900.0	3,798.4	3,852.6	3,710.3	16.2	18.2	-100.77	170.4	-770.6	521.0	488.4	32.57	15.996		
4,000.0	3,894.1	3,949.7	3,800.2	16.8	19.0	-100.19	178.5	-806.5	544.4	510.6	33.80	16.108		
4,100.0	3,989.7	4,046.8	3,890.1	17.4	19.8	-99.67	186.5	-842.3	567.9	532.9	35.02	16.214		
4,200.0	4,085.4	4,143.8	3,979.9	18.0	20.6	-99.18	194.5	-878.1	591.4	555.2	36.25	16.314		
4,300.0	4,181.1	4,240.9	4,069.8	18.6	21.3	-98.74	202.6	-914.0	615.0	577.5	37.48	16.409		
4,400.0	4,276.7	4,338.0	4,159.6	19.2	22.1	-98.32	210.6	-949.8	638.6	599.9	38.71	16.499		
4,500.0	4,372.4	4,435.0	4,249.5	19.8	22.9	-97.94	218.6	-985.7	662.2	622.3	39.93	16.584		
4,600.0	4,468.0	4,532.1	4,339.3	20.4	23.7	-97.58	226.7	-1,021.5	685.9	644.7	41.16	16.665		
4,700.0	4,563.7	4,629.2	4,429.2	21.0	24.5	-97.24	234.7	-1,057.4	709.6	667.2	42.38	16.742		
4,800.0	4,659.3	4,726.3	4,519.1	21.6	25.2	-96.93	242.7	-1,093.2	733.3	689.7	43.61	16.815		
4,900.0	4,755.0	4,823.3	4,608.9	22.2	26.0	-96.64	250.8	-1,129.0	757.0	712.2	44.84	16.884		
5,000.0	4,850.6	4,920.4	4,698.8	22.8	26.8	-96.36	258.8	-1,164.9	780.7	734.7	46.06	16.950		
5,100.0	4,946.3	5,017.5	4,788.6	23.4	27.6	-96.10	266.8	-1,200.7	804.5	757.2	47.29	17.013		
5,200.0	5,041.9	5,126.6	4,890.0	24.0	28.4	-95.90	275.7	-1,240.0	827.8	779.3	48.52	17.062		
5,223.5	5,064.4	5,153.7	4,915.4	24.2	28.5	-95.88	277.7	-1,249.2	833.0	784.2	48.80	17.071		
5,300.0	5,137.9	5,242.0	4,998.9	24.6	29.0	-96.19	284.1	-1,277.6	849.0	799.3	49.70	17.084		
5,400.0	5,234.7	5,358.6	5,110.2	25.0	29.6	-96.54	291.6	-1,311.1	867.8	817.1	50.71	17.112		
5,500.0	5,332.4	5,476.1	5,223.8	25.3	30.1	-96.83	298.2	-1,340.5	884.1	832.5	51.62	17.127		
5,600.0	5,430.7	5,594.5	5,339.4	25.7	30.6	-97.08	303.8	-1,365.4	897.8	845.4	52.41	17.130		
5,700.0	5,529.6	5,713.6	5,456.6	25.9	31.0	-97.27	308.3	-1,385.8	909.0	855.9	53.09	17.122		
5,800.0	5,629.0	5,833.3	5,575.3	26.2	31.3	-97.42	311.8	-1,401.5	917.5	863.9	53.64	17.104		
5,900.0	5,728.7	5,953.5	5,694.9	26.4	31.5	-97.52	314.3	-1,412.3	923.4	869.3	54.09	17.072		
6,000.0	5,828.6	6,073.9	5,815.1	26.5	31.7	-97.58	316.6	-1,418.3	926.6	872.2	54.42	17.027		
6,071.4	5,900.0	6,159.8	5,901.0	26.6	31.8	-135.61	315.9	-1,419.5	927.3	872.7	54.59	16.986		
6,100.0	5,928.6	6,188.3	5,929.6	26.6	31.8	-135.61	315.9	-1,419.5	927.3	872.6	54.64	16.970		
6,200.0	6,028.6	6,288.3	6,029.6	26.7	31.9	-135.61	315.9	-1,419.5	927.3	872.4	54.85	16.906		
6,300.0	6,128.6	6,388.3	6,129.6	26.8	32.0	-135.61	315.9	-1,419.5	927.3	872.2	55.06	16.842		
6,400.0	6,228.6	6,488.3	6,229.6	26.9	32.1	-135.61	315.9	-1,419.5	927.3	872.0	55.27	16.778		
6,500.0	6,328.6	6,588.3	6,329.6	27.0	32.1	-135.61	315.9	-1,419.5	927.3	871.8	55.48	16.713		
6,600.0	6,428.6	6,688.3	6,429.6	27.2	32.2	-135.61	315.9	-1,419.5	927.3	871.6	55.70	16.648		
6,700.0	6,528.6	6,788.3	6,529.6	27.3	32.3	-135.61	315.9	-1,419.5	927.3	871.4	55.92	16.583		
6,800.0	6,628.6	6,888.3	6,629.6	27.4	32.4	-135.61	315.9	-1,419.5	927.3	871.2	56.14	16.517		
6,900.0	6,728.6	6,988.3	6,729.6	27.5	32.5	-135.61	315.9	-1,419.5	927.3	870.9	56.37	16.451		
7,000.0	6,828.6	7,088.3	6,829.6	27.6	32.6	-135.61	315.9	-1,419.5	927.3	870.7	56.59	16.385		
7,100.0	6,928.6	7,188.3	6,929.6	27.7	32.7	-135.61	315.9	-1,419.5	927.3	870.5	56.82	16.319		
7,200.0	7,028.6	7,288.3	7,029.6	27.9	32.8	-135.61	315.9	-1,419.5	927.3	870.2	57.06	16.252		
7,300.0	7,128.6	7,388.3	7,129.6	28.0	32.9	-135.61	315.9	-1,419.5	927.3	870.0	57.29	16.185		

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>	Site Pratt 34-29D Pad Sec.29-T1N-R68W
<b>Project:</b>	SEC.29-T1N-R68W	<b>TVD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Reference Site:</b>	Pratt 34-29D Pad Sec.29-T1N-R68W	<b>MD Reference:</b>	WELL @ 5192.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Pratt 33-29D	<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>	Landmark
<b>Reference Design:</b>	Plan #1 (12-15-10)	<b>Offset TVD Reference:</b>	Offset Datum

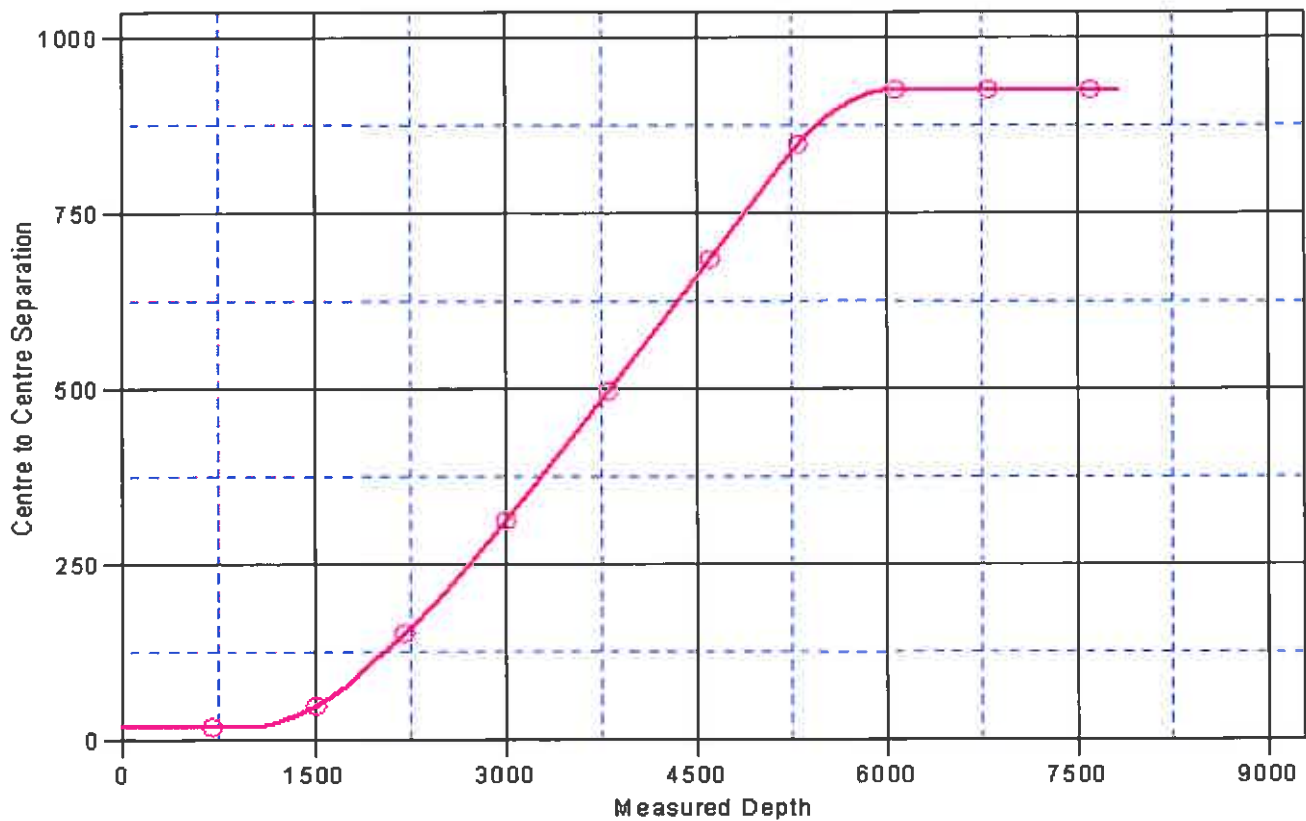
Offset Design Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29-PD - Wellbore #1 - Plan #1 (12-15-10)													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (ft)	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore +N-S (ft)	Centre +E-W (ft)						
7,400.0	7,228.6	7,488.3	7,229.6	28.1	33.1	-135.61	315.9	-1,419.5	927.3	869.8	57.53	16.118		
7,500.0	7,328.6	7,588.3	7,329.6	28.2	33.2	-135.61	315.9	-1,419.5	927.3	869.5	57.77	16.051		
7,600.0	7,428.6	7,688.3	7,429.6	28.3	33.3	-135.61	315.9	-1,419.5	927.3	869.3	58.01	15.984		
7,700.0	7,528.6	7,788.3	7,529.6	28.5	33.4	-135.61	315.9	-1,419.5	927.3	869.0	58.26	15.917		
7,800.0	7,628.6	7,888.3	7,629.6	28.6	33.5	-135.61	315.9	-1,419.5	927.3	868.8	58.51	15.849		
7,821.4	7,650.0	7,909.8	7,651.0	28.6	33.5	-135.61	315.9	-1,419.5	927.3	868.7	58.56	15.835		

**Company:** Synergy Resources  
**Project:** SEC.29-T1N-R68W  
**Reference Site:** Pratt 34-29D Pad Sec.29-T1N-R68W  
**Site Error:** 0.0ft  
**Reference Well:** Pratt 33-29D  
**Well Error:** 0.0ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Plan #1 (12-15-10)

**Local Co-ordinate Reference:** Site Pratt 34-29D Pad Sec.29-T1N-R68W  
**TVD Reference:** WELL @ 5192.0ft (Original Well Elev)  
**MD Reference:** WELL @ 5192.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** Landmark  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to WELL @ 5192.0ft (Original Well Elev) Coordinates are relative to: Pratt 34-29D Pad Sec.29-T1N-R68W  
 Offset Depths are relative to Offset Datum  
 Central Meridian Is 105° 30' 0.000 W °  
 Coordinate System Is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.31°

### Ladder Plot



### LEGEND

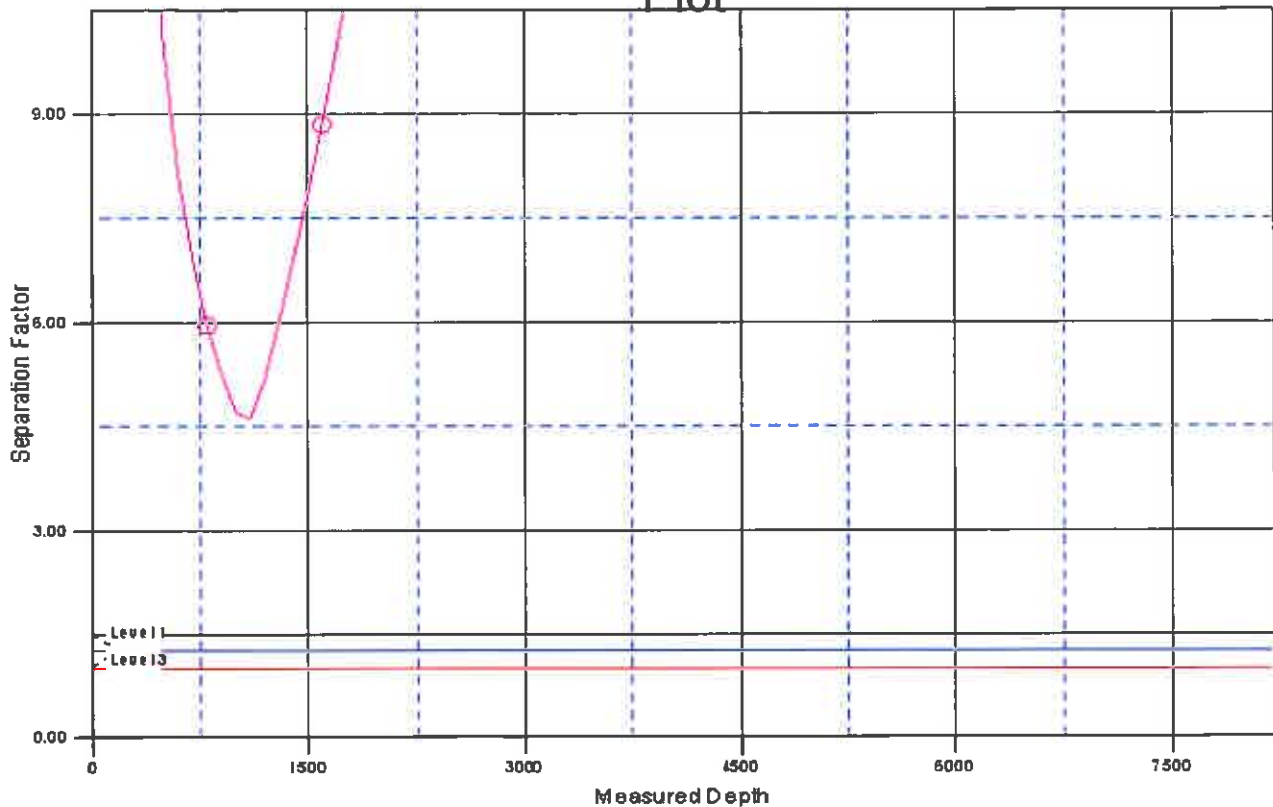
- Pratt 29-P D, Wellbore #1, Plan #1 (12-15-10) VD

**Company:** Synergy Resources  
**Project:** SEC.29-T1N-R68W  
**Reference Site:** Pratt 34-29D Pad Sec.29-T1N-R68W  
**Site Error:** 0.0ft  
**Reference Well:** Pratt 33-29D  
**Well Error:** 0.0ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Plan #1 (12-15-10)

**Local Co-ordinate Reference:** Site Pratt 34-29D Pad Sec.29-T1N-R68W  
**TVD Reference:** WELL @ 5192.0ft (Original Well Elev)  
**MD Reference:** WELL @ 5192.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** Landmark  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to WELL @ 5192.0ft (Original Well Elev) Coordinates are relative to: Pratt 34-29D Pad Sec.29-T1N-R68W  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 105° 30' 0.000 W °  
 Coordinate System Is US State Plane 1983, Colorado Northern Zone  
 Grid Convergence at Surface is: 0.31°

### Separation Factor Plot



### LEGEND

- Pratt 20-P D, Wellbore #1, Plan #1 (12-15-10) V0