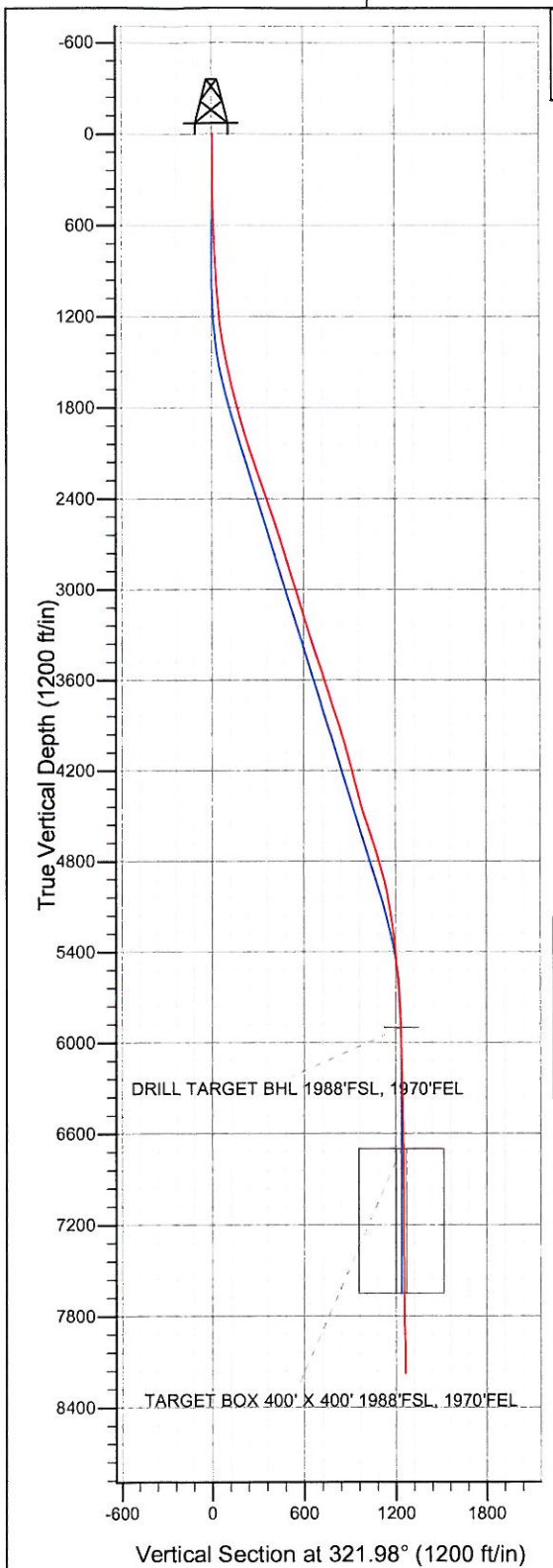
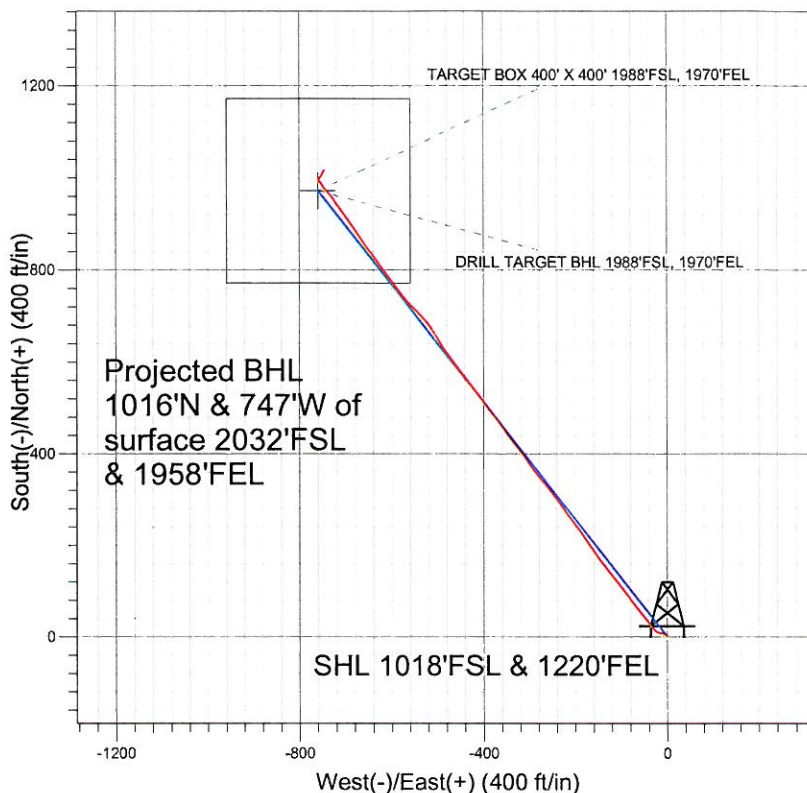


Well Name: **Pratt 33-29D**

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  
0.0 0.0 1249594.81 3133737.74 40° 1' 3.129 N 105° 1' 21.007 W  
Original Well Elev WELL @ 5192.0ft (Original Well Elev)



## Synergy Resources



## LEGEND

- △ Pratt 33-29D, Wellbore #1, Plan #2 (1-6-11) V0
- Wellbore #1

## Final Survey Plot

Projected Final Survey -  
8349'MD & 8183'TVD @ 1260' VS  
2.0 deg Inc 20.6 deg AZ

Project: SEC.29-T1N-R68W  
Site: Pratt 34-29D Pad Sec.29-T1N-R68W  
Well: Pratt 33-29D  
Plan: Wellbore #1



## **Directional**

### **Synergy Resources**

**SEC.29-T1N-R68W**

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

**Pratt 33-29D**

**Wellbore #1**

**Design: Wellbore #1**

### **Standard Survey Report**

**15 February, 2011**

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

<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	0.0 ft	Northing:	1,249,594.81 ft	Latitude:	40° 1' 3.129 N
	+E/-W	0.0 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				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	1/26/2011	9.02	66.71	52,939

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	5,900.0	0.0	0.0	321.98	

<b>Survey Program</b>	<b>Date</b>	2/15/2011			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
127.0	8,349.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

<b>Survey</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>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
127.0	0.10	346.40	127.0	0.1	0.0	0.1	0.08	0.08	0.00	
218.0	0.80	336.00	218.0	0.8	-0.3	0.8	0.77	0.77	-11.43	
310.0	1.00	306.70	310.0	1.8	-1.2	2.2	0.54	0.22	-31.85	
405.0	0.80	301.30	405.0	2.7	-2.4	3.6	0.23	-0.21	-5.68	
496.0	1.60	298.70	496.0	3.6	-4.1	5.4	0.88	0.88	-2.86	
589.0	2.80	285.20	588.9	4.8	-7.4	8.4	1.40	1.29	-14.52	
682.0	3.20	279.60	681.8	5.9	-12.2	12.1	0.53	0.43	-6.02	
776.0	3.60	284.70	775.6	7.0	-17.6	16.4	0.53	0.43	5.43	
870.0	3.10	302.40	869.4	9.2	-22.6	21.1	1.22	-0.53	18.83	
1,055.0	4.00	319.90	1,054.1	16.8	-31.0	32.3	0.76	0.49	9.46	
1,149.0	4.80	328.30	1,147.8	22.6	-35.2	39.5	1.09	0.85	8.94	
1,241.0	7.10	321.30	1,239.3	30.3	-40.8	49.0	2.62	2.50	-7.61	



**Company:** Synergy Resources  
**Project:** SEC.29-T1N-R68W  
**Site:** Pratt 34-29D Pad Sec.29-T1N-R68W  
**Well:** Pratt 33-29D  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well Pratt 33-29D  
**TVD Reference:** WELL @ 5192.0ft (Original Well Elev)  
**MD Reference:** WELL @ 5192.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Landmark

## 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)
1,335.0	9.00	322.40	1,332.4	40.7	-48.9	62.2	2.03	2.02	1.17
1,429.0	10.60	322.30	1,425.0	53.4	-58.7	78.2	1.70	1.70	-0.11
1,522.0	12.50	320.70	1,516.1	67.9	-70.3	96.8	2.07	2.04	-1.72
1,616.0	13.40	324.50	1,607.7	84.7	-83.0	117.8	1.32	0.96	4.04
1,710.0	13.50	321.60	1,699.1	102.1	-96.2	139.7	0.73	0.11	-3.09
1,803.0	15.00	321.40	1,789.3	120.0	-110.4	162.6	1.61	1.61	-0.22
1,898.0	15.60	320.70	1,880.9	139.5	-126.2	187.6	0.66	0.63	-0.74
1,992.0	15.90	324.40	1,971.4	159.8	-141.7	213.1	1.11	0.32	3.94
2,086.0	18.20	325.80	2,061.2	182.4	-157.4	240.7	2.49	2.45	1.49
2,179.0	19.50	324.90	2,149.3	207.1	-174.5	270.7	1.43	1.40	-0.97
2,273.0	18.20	325.90	2,238.2	232.1	-191.8	301.0	1.43	-1.38	1.06
2,367.0	18.20	321.30	2,327.5	255.7	-209.2	330.3	1.53	0.00	-4.89
2,460.0	19.10	324.60	2,415.6	279.5	-227.1	360.0	1.49	0.97	3.55
2,554.0	18.90	324.20	2,504.5	304.3	-244.9	390.6	0.25	-0.21	-0.43
2,648.0	17.60	320.20	2,593.8	327.6	-262.9	420.0	1.92	-1.38	-4.26
2,741.0	17.80	320.30	2,682.4	349.4	-281.0	448.3	0.22	0.22	0.11
2,835.0	17.40	326.20	2,772.0	372.1	-298.0	476.7	1.94	-0.43	6.28
2,929.0	16.80	323.20	2,861.8	394.6	-313.9	504.3	1.13	-0.64	-3.19
3,022.0	16.70	322.90	2,950.9	416.1	-330.0	531.1	0.14	-0.11	-0.32
3,116.0	16.70	323.30	3,040.9	437.7	-346.3	558.1	0.12	0.00	0.43
3,210.0	17.10	326.60	3,130.9	460.0	-361.9	585.3	1.11	0.43	3.51
3,304.0	16.40	320.80	3,220.9	481.9	-377.9	612.4	1.93	-0.74	-6.17
3,398.0	17.10	323.80	3,310.9	503.3	-394.5	639.5	1.18	0.74	3.19
3,492.0	18.10	323.20	3,400.5	526.1	-411.4	667.9	1.08	1.06	-0.64
3,585.0	18.20	324.30	3,488.9	549.5	-428.5	696.8	0.38	0.11	1.18
3,679.0	17.80	323.10	3,578.3	572.9	-445.7	725.9	0.58	-0.43	-1.28
3,772.0	16.10	321.60	3,667.2	594.4	-462.3	753.0	1.89	-1.83	-1.61
3,866.0	17.60	325.50	3,757.2	616.3	-478.4	780.2	2.00	1.60	4.15
3,960.0	18.60	327.60	3,846.5	640.7	-494.5	809.3	1.27	1.06	2.23
4,054.0	16.70	327.60	3,936.1	664.7	-509.8	837.7	2.02	-2.02	0.00
4,147.0	16.50	320.60	4,025.2	686.2	-525.3	864.2	2.16	-0.22	-7.53
4,241.0	15.20	314.30	4,115.7	705.2	-542.6	889.7	2.29	-1.38	-6.70
4,335.0	15.00	316.10	4,206.4	722.5	-559.9	914.0	0.54	-0.21	1.91
4,428.0	13.50	321.30	4,296.6	739.7	-575.0	936.9	2.12	-1.61	5.59
4,522.0	14.30	323.10	4,387.8	757.5	-588.8	959.4	0.97	0.85	1.91
4,616.0	17.00	324.10	4,478.3	777.9	-603.8	984.8	2.89	2.87	1.06
4,710.0	19.30	324.60	4,567.6	801.7	-620.9	1,014.0	2.45	2.45	0.53
4,804.0	18.60	323.70	4,656.5	826.5	-638.8	1,044.5	0.81	-0.74	-0.96
4,898.0	16.10	322.90	4,746.3	849.0	-655.5	1,072.6	2.67	-2.66	-0.85
4,992.0	15.20	326.60	4,836.8	869.6	-670.2	1,097.9	1.43	-0.96	3.94
5,085.0	13.70	325.50	4,926.8	888.9	-683.1	1,121.0	1.64	-1.61	-1.18
5,179.0	12.00	326.10	5,018.5	906.2	-694.9	1,141.9	1.81	-1.81	0.64
5,273.0	9.70	325.40	5,110.8	920.8	-704.8	1,159.5	2.45	-2.45	-0.74
5,367.0	7.90	322.90	5,203.7	932.5	-713.2	1,173.9	1.96	-1.91	-2.66
5,460.0	6.90	324.10	5,295.9	942.1	-720.3	1,185.9	1.09	-1.08	1.29
5,554.0	5.80	325.50	5,389.3	950.6	-726.3	1,196.3	1.18	-1.17	1.49
5,648.0	5.30	324.30	5,482.9	958.0	-731.6	1,205.3	0.55	-0.53	-1.28
5,742.0	4.40	318.60	5,576.6	964.3	-736.5	1,213.3	1.08	-0.96	-6.06
5,836.0	3.50	318.70	5,670.3	969.1	-740.8	1,219.7	0.96	-0.96	0.11
5,930.0	2.70	319.20	5,764.2	973.0	-744.1	1,224.8	0.85	-0.85	0.53
6,024.0	2.50	319.70	5,858.1	976.2	-746.9	1,229.1	0.21	-0.21	0.53
6,066.1	2.36	322.20	5,900.1	977.6	-748.0	1,230.9	0.41	-0.33	5.93
DRILL TARGET BHL 1988°FSL, 1970°FEL									
6,118.0	2.20	325.70	5,952.0	979.3	-749.2	1,232.9	0.41	-0.31	6.75

**Company:** Synergy Resources  
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**Design:** Wellbore #1

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**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Landmark

## 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)
6,305.0	1.80	327.40	6,138.9	984.7	-752.8	1,239.4	0.22	-0.21	0.91
6,492.0	1.50	323.90	6,325.8	989.2	-755.9	1,244.8	0.17	-0.16	-1.87
6,680.0	0.80	301.40	6,513.8	991.8	-758.4	1,248.5	0.44	-0.37	-11.97
6,866.1	0.50	356.62	6,699.8	993.3	-759.6	1,250.4	0.35	-0.16	29.68
<b>TARGET BOX 400' X 400' 1988'FSL, 1970'FEL</b>									
6,867.0	0.50	357.00	6,700.8	993.3	-759.6	1,250.4	0.35	0.02	40.47
7,055.0	0.80	31.80	6,888.8	995.3	-758.9	1,251.5	0.26	0.16	18.51
7,242.0	0.70	28.50	7,075.7	997.4	-757.7	1,252.4	0.06	-0.05	-1.76
7,428.0	0.50	38.30	7,261.7	999.0	-756.7	1,253.1	0.12	-0.11	5.27
7,616.0	0.60	53.90	7,449.7	1,000.2	-755.4	1,253.2	0.10	0.05	8.30
7,803.0	0.90	18.30	7,636.7	1,002.2	-754.1	1,254.0	0.29	0.16	-19.04
7,991.0	1.80	28.20	7,824.7	1,006.2	-752.2	1,256.0	0.49	0.48	5.27
8,178.0	1.40	33.30	8,011.6	1,010.7	-749.6	1,257.9	0.23	-0.21	2.73
8,305.0	2.00	20.60	8,138.5	1,014.1	-748.0	1,259.6	0.56	0.47	-10.00
8,349.0	2.00	20.60	8,182.5	1,015.5	-747.4	1,260.4	0.00	0.00	0.00

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_