

Well Name: **Pratt 2KD**

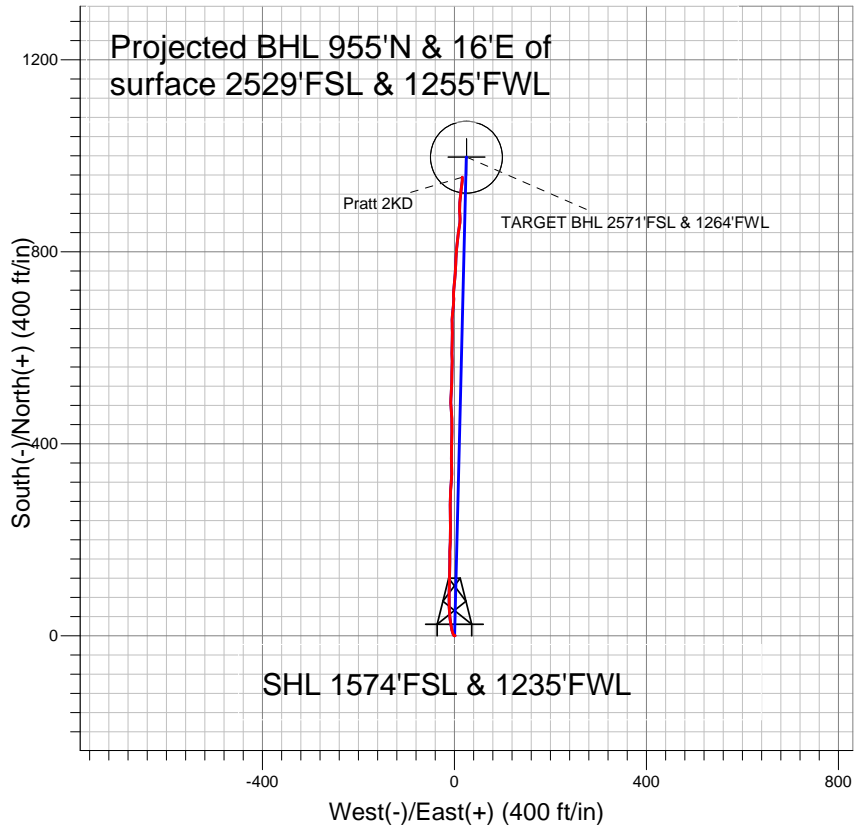
Surface Location: Pratt 14-2D Pad Sec.2-T4N-R68W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 5002.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1367080.66	3146241.72	40.339850	-104.975377	

Original Well Elev WELL @ 5015.0ft (Original Well Elev)

Synergy Resources



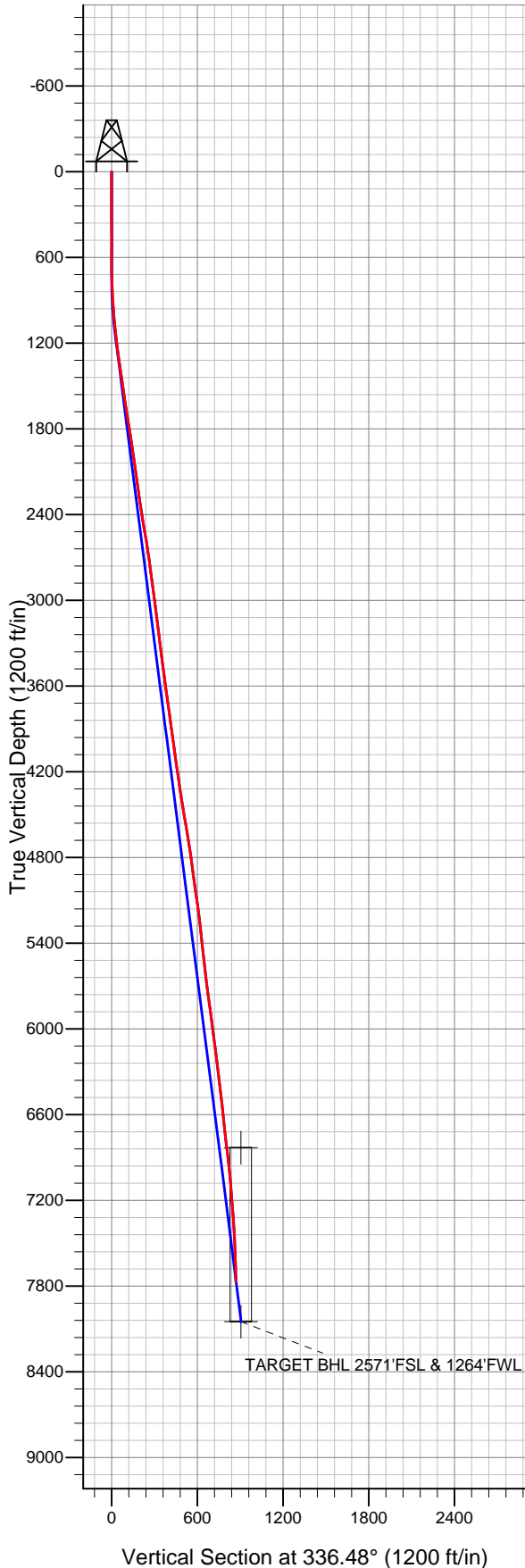
LEGEND

- Pratt 2KD, Wellbore #1, Plan #1 (12-07-12) R V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
 7840'MD & 7771'TVD @ 955'VS
 1.6 deg Inc 353.10 deg AZ

Project: SEC.2-T4N-R68W
 Site: Pratt 14-2D Pad Sec.2-T4N-R68W
 Well: Pratt 2KD
 Plan: Wellbore #1





Directional

Synergy Resources

SEC.2-T4N-R68W

Pratt 14-2D Pad Sec.2-T4N-R68W

Pratt 2KD

Wellbore #1

Survey: Survey #1

Standard Survey Report

17 December, 2012

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Pratt 2KD
Project:	SEC.2-T4N-R68W	TVD Reference:	WELL @ 5015.0ft (Original Well Elev)
Site:	Pratt 14-2D Pad Sec.2-T4N-R68W	MD Reference:	WELL @ 5015.0ft (Original Well Elev)
Well:	Pratt 2KD	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.2-T4N-R68W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Pratt 14-2D Pad Sec.2-T4N-R68W		
Site Position:		Northing:	1,367,080.43ft
From:	Lat/Long	Easting:	3,146,261.80ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.339849
		Longitude:	-104.975305
		Grid Convergence:	0.34 °

Well	Pratt 2KD		
Well Position	+N/-S	0.0 ft	Northing: 1,367,080.66 ft
	+E/-W	0.0 ft	Easting: 3,146,241.72 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.339850
		Longitude:	-104.975377
		Ground Level:	5,002.0 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	12/6/2012	8.77
			Dip Angle (°) 66.92
			Field Strength (nT) 52,920

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.0	0.0	0.0
			Direction (°) 336.48

Survey Program	Date	12/17/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
48.0	7,840.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

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	
48.0	0.30	17.90	48.0	0.1	0.0	0.1	0.63	0.63	0.00	
138.0	0.30	58.00	138.0	0.5	0.3	0.3	0.23	0.00	44.56	
226.0	0.30	71.00	226.0	0.7	0.7	0.3	0.08	0.00	14.77	
329.0	0.20	195.60	329.0	0.6	0.9	0.2	0.43	-0.10	120.97	
455.0	0.20	270.50	455.0	0.4	0.7	0.1	0.19	0.00	59.44	
566.0	0.40	285.30	566.0	0.5	0.1	0.4	0.19	0.18	13.33	
615.0	0.40	285.30	615.0	0.6	-0.2	0.6	0.00	0.00	0.00	
686.0	0.50	192.80	686.0	0.3	-0.6	0.5	0.92	0.14	-130.28	
814.0	2.50	330.30	814.0	2.2	-2.1	2.8	2.26	1.56	107.42	
943.0	4.00	344.90	942.7	9.0	-4.6	10.1	1.32	1.16	11.32	
1,071.0	6.00	350.10	1,070.3	19.9	-6.9	21.0	1.60	1.56	4.06	
1,199.0	7.20	352.90	1,197.4	34.4	-9.1	35.2	0.97	0.94	2.19	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Pratt 2KD
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Site:	Pratt 14-2D Pad Sec.2-T4N-R68W	MD Reference:	WELL @ 5015.0ft (Original Well Elev)
Well:	Pratt 2KD	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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)
1,327.0	8.50	355.90	1,324.2	51.8	-10.7	51.8	1.06	1.02	2.34
1,456.0	8.90	359.30	1,451.7	71.3	-11.6	70.0	0.50	0.31	2.64
1,584.0	9.80	2.60	1,578.0	92.1	-11.2	88.9	0.82	0.70	2.58
1,712.0	9.60	1.40	1,704.2	113.7	-10.4	108.4	0.22	-0.16	-0.94
1,840.0	9.70	0.90	1,830.4	135.1	-10.0	127.9	0.10	0.08	-0.39
1,968.0	9.00	0.30	1,956.7	155.9	-9.8	146.9	0.55	-0.55	-0.47
2,096.0	8.80	0.50	2,083.1	175.7	-9.6	165.0	0.16	-0.16	0.16
2,225.0	8.60	2.80	2,210.6	195.2	-9.1	182.6	0.31	-0.16	1.78
2,353.0	10.00	0.00	2,337.0	215.9	-8.6	201.4	1.15	1.09	-2.19
2,481.0	10.30	358.90	2,463.0	238.4	-8.8	222.2	0.28	0.23	-0.86
2,611.0	9.60	359.30	2,591.0	260.9	-9.2	242.9	0.54	-0.54	0.31
2,740.0	9.30	2.40	2,718.3	282.1	-8.9	262.2	0.46	-0.23	2.40
2,868.0	8.20	2.40	2,844.8	301.5	-8.1	279.7	0.86	-0.86	0.00
2,996.0	7.90	5.10	2,971.5	319.4	-6.9	295.6	0.38	-0.23	2.11
3,125.0	8.30	1.00	3,099.2	337.6	-6.0	311.9	0.54	0.31	-3.18
3,252.0	7.70	357.90	3,225.0	355.2	-6.1	328.1	0.58	-0.47	-2.44
3,381.0	7.90	359.50	3,352.8	372.7	-6.5	344.3	0.23	0.16	1.24
3,509.0	8.00	1.40	3,479.6	390.4	-6.4	360.5	0.22	0.08	1.48
3,638.0	8.60	2.10	3,607.2	409.0	-5.8	377.4	0.47	0.47	0.54
3,766.0	9.20	0.90	3,733.7	428.8	-5.3	395.3	0.49	0.47	-0.94
3,894.0	8.10	358.40	3,860.2	448.1	-5.4	413.0	0.91	-0.86	-1.95
4,023.0	8.30	353.80	3,987.9	466.4	-6.6	430.3	0.53	0.16	-3.57
4,150.0	8.70	359.60	4,113.5	485.1	-7.7	447.9	0.74	0.31	4.57
4,279.0	9.80	4.60	4,240.8	505.8	-6.9	466.6	1.06	0.85	3.88
4,408.0	9.40	1.60	4,368.0	527.3	-5.7	485.8	0.50	-0.31	-2.33
4,536.0	10.20	1.00	4,494.1	549.1	-5.2	505.5	0.63	0.63	-0.47
4,662.0	10.80	0.00	4,618.0	572.0	-5.0	526.5	0.50	0.48	-0.79
4,791.0	9.60	358.90	4,745.0	594.9	-5.2	547.5	0.94	-0.93	-0.85
4,919.0	8.10	4.00	4,871.5	614.6	-4.8	565.4	1.32	-1.17	3.98
5,048.0	7.80	356.80	4,999.2	632.4	-4.6	581.7	0.81	-0.23	-5.58
5,176.0	8.90	0.90	5,125.9	650.9	-5.0	598.8	0.98	0.86	3.20
5,304.0	8.40	4.40	5,252.4	670.2	-4.1	616.1	0.57	-0.39	2.73
5,432.0	6.30	7.50	5,379.4	686.4	-2.5	630.4	1.67	-1.64	2.42
5,560.0	6.80	357.50	5,506.5	701.0	-1.9	643.5	0.97	0.39	-7.81
5,689.0	8.00	2.60	5,634.5	717.6	-1.8	658.7	1.06	0.93	3.95
5,817.0	8.40	6.30	5,761.1	735.8	-0.4	674.8	0.52	0.31	2.89
5,946.0	8.80	4.70	5,888.7	755.0	1.5	691.7	0.36	0.31	-1.24
6,074.0	8.40	3.10	6,015.3	774.1	2.8	708.7	0.36	-0.31	-1.25
6,202.0	8.40	3.00	6,141.9	792.7	3.8	725.4	0.01	0.00	-0.08
6,331.0	7.70	3.10	6,269.6	810.8	4.7	741.5	0.54	-0.54	0.08
6,459.0	8.30	9.30	6,396.4	828.5	6.7	757.0	0.82	0.47	4.84
6,587.0	7.20	6.50	6,523.2	845.5	9.1	771.7	0.91	-0.86	-2.19
6,715.0	6.40	7.20	6,650.3	860.6	10.9	784.8	0.63	-0.63	0.55
6,843.0	7.70	355.60	6,777.3	876.2	11.1	799.0	1.50	1.02	-9.06
6,912.1	7.58	358.56	6,845.8	885.4	10.7	807.6	0.59	-0.17	4.29
TARGET CIRCLE 2571'FSL & 1264'FWL									
6,972.0	7.50	1.20	6,905.2	893.3	10.6	814.8	0.59	-0.14	4.40
7,100.0	6.10	5.40	7,032.3	908.4	11.5	828.3	1.16	-1.09	3.28
7,228.0	4.60	6.00	7,159.7	920.3	12.6	838.8	1.17	-1.17	0.47
7,356.0	5.50	7.90	7,287.2	931.4	14.0	848.5	0.72	0.70	1.48
7,485.0	3.60	7.70	7,415.8	941.6	15.4	857.2	1.47	-1.47	-0.16
7,613.0	2.20	3.80	7,543.7	948.0	16.1	862.8	1.10	-1.09	-3.05
7,742.0	1.80	1.40	7,672.6	952.5	16.3	866.9	0.32	-0.31	-1.86
7,796.0	1.60	353.10	7,726.6	954.1	16.2	868.4	0.59	-0.37	-15.37

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Survey									
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7,840.0	1.60	353.10	7,770.5	955.3	16.1	869.5	0.00	0.00	0.00
TARGET BHL 2571'FSL & 1264'FWL									

Checked By: _____	Approved By: _____	Date: _____
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