

Well Name: **Pratt 13-2D**

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

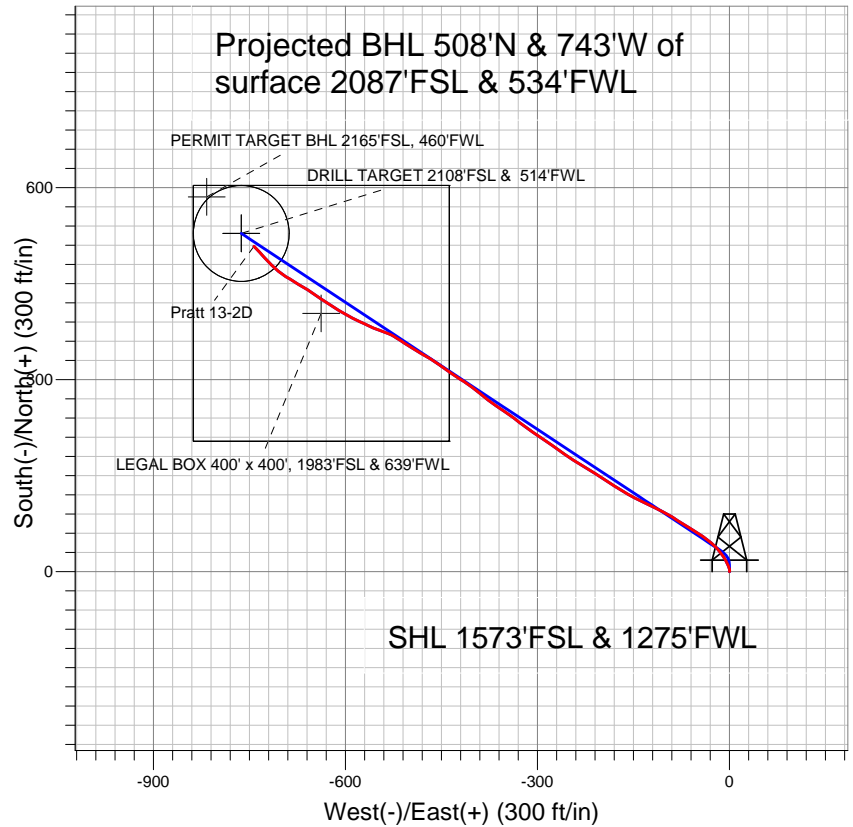
Ground Elevation: 5004.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1367080.53	3146281.59	40.339849	-104.975234

Original Well Elev WELL @ 5017.0ft (Original Well Elev)

Slot

Synergy Resources



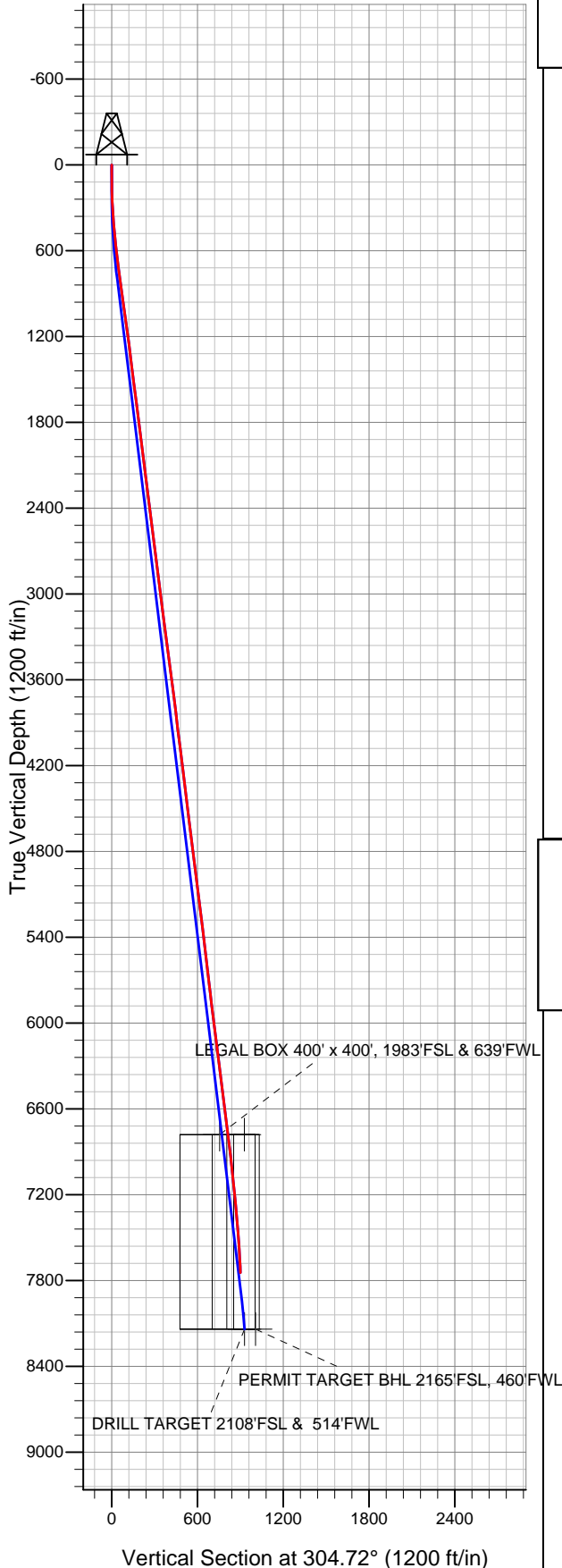
LEGEND

- x Pratt 13-2D, Wellbore #1, Plan #2 (11-27-12)R V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7800'MD & 7744'TVD @ 900'VS
2.8 deg Inc 313.4 deg AZ

Project: SEC.2-T4N-R68W
Site: Pratt 14-2D Pad Sec.2-T4N-R68W
Well: Pratt 13-2D
Plan: Wellbore #1





Directional

Synergy Resources

SEC.2-T4N-R68W

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

Pratt 13-2D

Wellbore #1

Survey: Survey #1

Standard Survey Report

03 December, 2012

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Pratt 13-2D
Project:	SEC.2-T4N-R68W	TVD Reference:	WELL @ 5017.0ft (Original Well Elev)
Site:	Pratt 14-2D Pad Sec.2-T4N-R68W	MD Reference:	WELL @ 5017.0ft (Original Well Elev)
Well:	Pratt 13-2D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.2-T4N-R68W, Weld County, Colorad		
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	Latitude:	40.339849
From:	Lat/Long	Easting:	3,146,261.80ft	Longitude:	-104.975305
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.34 °

Well	Pratt 13-2D					
Well Position	+N/-S	0.0 ft	Northing:	1,367,080.53 ft	Latitude:	40.339849
	+E/-W	0.0 ft	Easting:	3,146,281.59 ft	Longitude:	-104.975234
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,004.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/27/2012	8.78	66.92	52,923

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)	Direction (°)	
	0.0	0.0	0.0	304.72	

Survey Program		Date	12/3/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
48.0	7,800.0	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	0.40	27.10	48.0	0.1	0.1	0.0	0.83	0.83	0.00
137.0	1.00	1.00	137.0	1.2	0.2	0.5	0.75	0.67	-29.33
225.0	2.40	348.20	225.0	3.8	-0.1	2.3	1.64	1.59	-14.55
328.0	4.40	337.80	327.8	9.5	-2.1	7.1	2.02	1.94	-10.10
455.0	5.60	329.60	454.3	19.4	-7.0	16.8	1.10	0.94	-6.46
566.0	6.90	322.20	564.6	29.3	-13.9	28.1	1.38	1.17	-6.67
615.0	6.90	322.20	613.3	34.0	-17.5	33.7	0.00	0.00	0.00
642.0	6.90	316.90	640.1	36.5	-19.6	36.9	2.36	0.00	-19.63
770.0	7.80	307.30	767.0	47.3	-31.7	53.1	1.19	0.70	-7.50
898.0	7.80	305.00	893.8	57.6	-45.8	70.4	0.24	0.00	-1.80
1,027.0	8.20	300.40	1,021.6	67.3	-60.9	88.3	0.58	0.31	-3.57
1,155.0	7.50	303.00	1,148.4	76.4	-75.8	105.8	0.61	-0.55	2.03

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Pratt 13-2D
Project:	SEC.2-T4N-R68W	TVD Reference:	WELL @ 5017.0ft (Original Well Elev)
Site:	Pratt 14-2D Pad Sec.2-T4N-R68W	MD Reference:	WELL @ 5017.0ft (Original Well Elev)
Well:	Pratt 13-2D	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)	
1,283.0	7.30	302.30	1,275.3	85.3	-89.6	122.3	0.17	-0.16	-0.55	
1,412.0	7.50	297.70	1,403.2	93.6	-104.0	138.8	0.48	0.16	-3.57	
1,540.0	7.10	294.80	1,530.2	100.8	-118.6	154.9	0.42	-0.31	-2.27	
1,668.0	7.70	295.80	1,657.1	107.9	-133.5	171.2	0.48	0.47	0.78	
1,796.0	7.10	296.50	1,784.1	115.1	-148.3	187.5	0.47	-0.47	0.55	
1,924.0	7.50	302.20	1,911.0	123.1	-162.4	203.6	0.65	0.31	4.45	
2,052.0	6.80	300.90	2,038.0	131.5	-176.0	219.5	0.56	-0.55	-1.02	
2,181.0	7.30	303.70	2,166.1	139.9	-189.4	235.4	0.47	0.39	2.17	
2,309.0	7.30	303.20	2,293.0	148.9	-203.0	251.6	0.05	0.00	-0.39	
2,437.0	7.50	301.60	2,420.0	157.7	-216.9	268.1	0.22	0.16	-1.25	
2,565.0	6.80	299.70	2,547.0	165.8	-230.6	284.0	0.58	-0.55	-1.48	
2,696.0	7.20	304.80	2,677.0	174.4	-244.1	299.9	0.56	0.31	3.89	
2,824.0	6.80	303.20	2,804.0	183.1	-257.0	315.5	0.35	-0.31	-1.25	
2,952.0	7.00	306.20	2,931.1	191.9	-269.6	330.9	0.32	0.16	2.34	
3,081.0	8.20	304.30	3,059.0	201.7	-283.6	347.9	0.95	0.93	-1.47	
3,208.0	7.20	304.30	3,184.8	211.3	-297.6	365.0	0.79	-0.79	0.00	
3,337.0	7.30	305.10	3,312.8	220.5	-311.0	381.2	0.11	0.08	0.62	
3,465.0	7.60	308.10	3,439.7	230.4	-324.3	397.8	0.38	0.23	2.34	
3,593.0	7.50	305.70	3,566.6	240.5	-337.8	414.6	0.26	-0.08	-1.88	
3,722.0	7.40	303.70	3,694.5	250.1	-351.5	431.3	0.22	-0.08	-1.55	
3,850.0	6.80	303.40	3,821.5	258.8	-364.7	447.2	0.47	-0.47	-0.23	
3,978.0	6.90	310.80	3,948.6	268.0	-376.8	462.4	0.69	0.08	5.78	
4,106.0	7.40	308.30	4,075.6	278.1	-389.1	478.3	0.46	0.39	-1.95	
4,235.0	7.30	306.00	4,203.6	288.1	-402.3	494.7	0.24	-0.08	-1.78	
4,363.0	6.40	305.50	4,330.7	297.0	-414.7	510.0	0.70	-0.70	-0.39	
4,492.0	6.40	300.80	4,458.9	304.9	-426.7	524.4	0.41	0.00	-3.64	
4,618.0	7.90	304.30	4,583.9	313.4	-439.9	540.0	1.24	1.19	2.78	
4,747.0	7.50	307.10	4,711.7	323.4	-453.9	557.3	0.43	-0.31	2.17	
4,875.0	6.90	299.50	4,838.7	332.3	-467.3	573.3	0.88	-0.47	-5.94	
5,004.0	7.70	301.60	4,966.7	340.6	-481.4	589.7	0.65	0.62	1.63	
5,132.0	6.90	300.60	5,093.6	349.0	-495.3	605.9	0.63	-0.63	-0.78	
5,260.0	7.00	303.20	5,220.7	357.2	-508.4	621.4	0.26	0.08	2.03	
5,388.0	5.80	305.10	5,347.9	365.2	-520.3	635.6	0.95	-0.94	1.48	
5,516.0	7.50	291.40	5,475.0	372.0	-533.3	650.2	1.81	1.33	-10.70	
5,645.0	7.00	288.60	5,603.0	377.5	-548.6	666.0	0.47	-0.39	-2.17	
5,773.0	7.60	296.90	5,730.0	383.8	-563.6	681.8	0.95	0.47	6.48	
5,902.0	6.20	294.40	5,858.0	390.6	-577.5	697.1	1.11	-1.09	-1.94	
6,030.0	7.70	297.60	5,985.1	397.4	-591.4	712.5	1.21	1.17	2.50	
6,158.0	6.80	299.70	6,112.0	405.1	-605.6	728.5	0.73	-0.70	1.64	
6,287.0	7.70	302.00	6,240.0	413.5	-619.6	744.8	0.73	0.70	1.78	
6,415.0	7.20	305.10	6,366.9	422.7	-633.4	761.3	0.50	-0.39	2.42	
6,544.0	6.90	306.60	6,495.0	431.9	-646.2	777.2	0.27	-0.23	1.16	
6,672.0	7.10	298.80	6,622.0	440.3	-659.3	792.7	0.76	0.16	-6.09	
6,800.0	7.20	303.40	6,749.0	448.6	-673.0	808.6	0.45	0.08	3.59	
6,823.9	7.23	302.66	6,772.8	450.2	-675.5	811.6	0.41	0.14	-3.09	
LEGAL BOX 400' x 400', 1983'FSL & 639'FWL										
6,845.8	7.27	301.99	6,794.4	451.7	-677.8	814.4	0.41	0.15	-3.06	
TARGET CIRCLE 2108'FSL & 514'FWL										
6,929.0	7.40	299.50	6,877.0	457.1	-686.9	825.0	0.41	0.16	-2.99	
7,057.0	6.60	308.00	7,004.0	465.7	-699.9	840.5	1.02	-0.63	6.64	
7,186.0	4.90	310.90	7,132.4	473.9	-709.9	853.4	1.34	-1.32	2.25	
7,314.0	5.60	317.10	7,259.8	482.0	-718.3	864.9	0.70	0.55	4.84	
7,442.0	5.30	316.40	7,387.2	490.9	-726.6	876.8	0.24	-0.23	-0.55	
7,571.0	4.30	317.50	7,515.8	498.7	-734.0	887.4	0.78	-0.78	0.85	

Company:	Synergy Resources	Local Co-ordinate Reference:	Well Pratt 13-2D
Project:	SEC.2-T4N-R68W	TVD Reference:	WELL @ 5017.0ft (Original Well Elev)
Site:	Pratt 14-2D Pad Sec.2-T4N-R68W	MD Reference:	WELL @ 5017.0ft (Original Well Elev)
Well:	Pratt 13-2D	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)
7,699.0	2.90	317.10	7,643.5	504.7	-739.4	895.2	1.09	-1.09	-0.31
7,756.0	2.80	313.40	7,700.5	506.7	-741.4	898.0	0.37	-0.18	-6.49
7,800.0	2.80	313.40	7,744.4	508.1	-743.0	900.1	0.00	0.00	0.00
DRILL TARGET 2108'FSL & 514'FWL - PERMIT TARGET BHL 2165'FSL, 460'FWL									

Checked By: _____ Approved By: _____ Date: _____