ENSIGN Directional

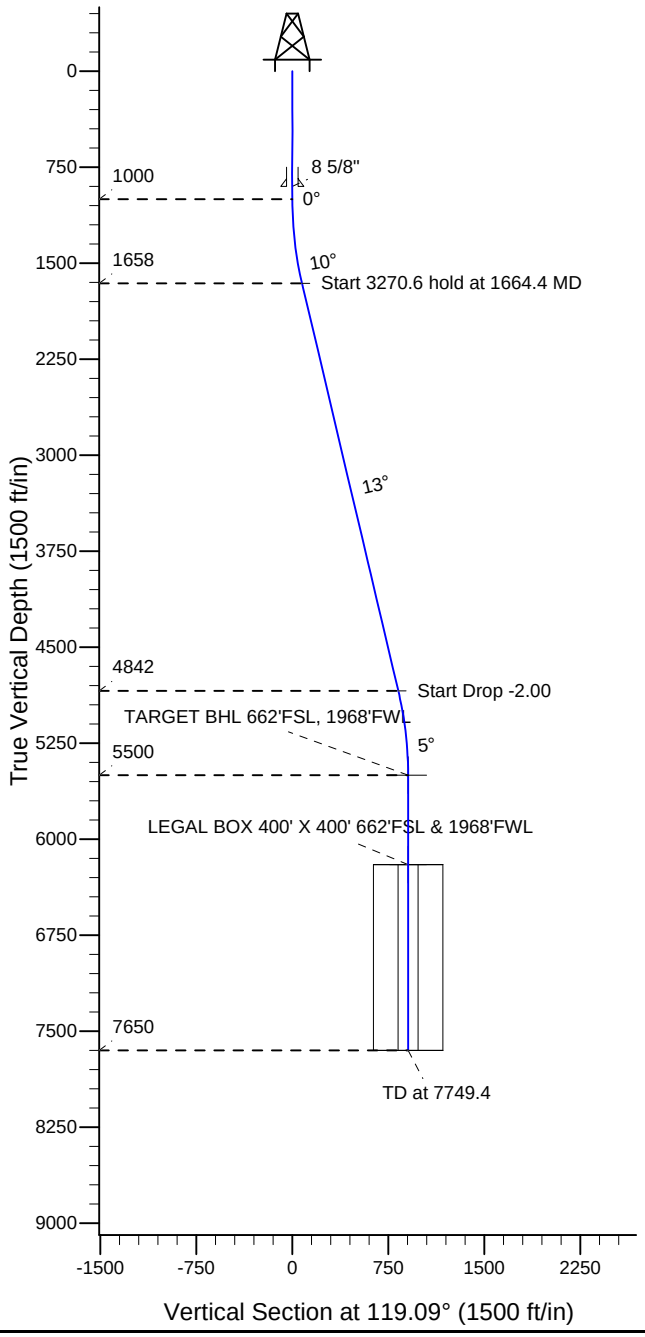
Well Name: **Pratt 24-29D**

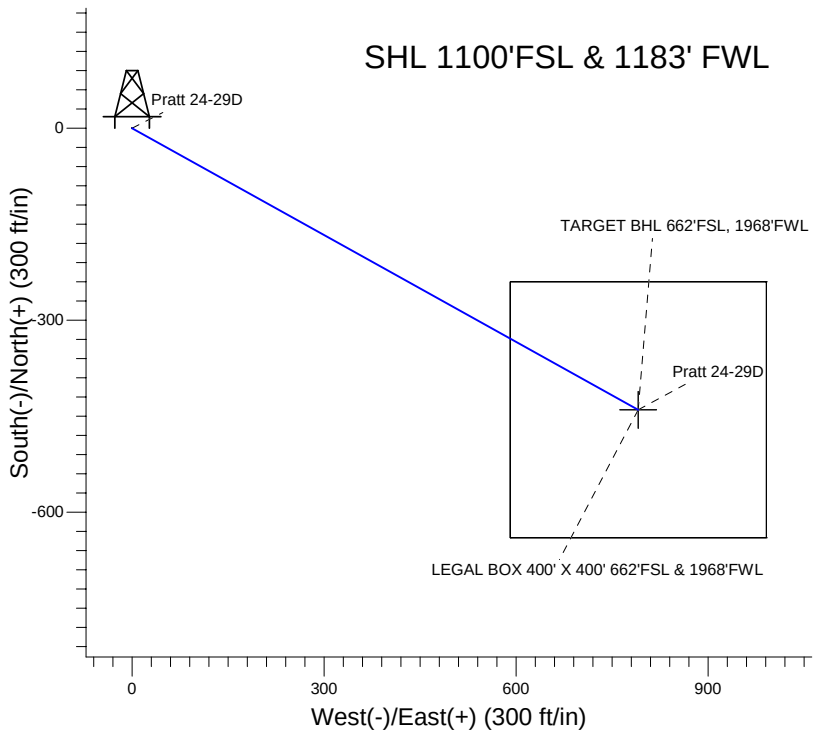
Surface Location: Pratt 24-29D Pad Sec.29-T1N-R68W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 5142.0

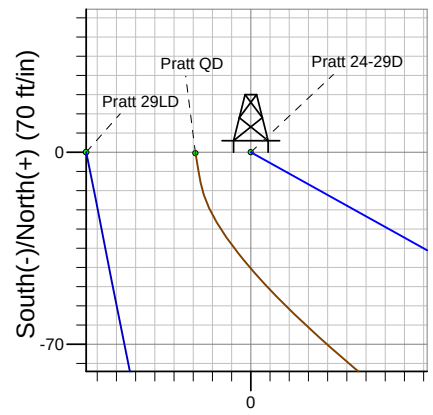
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1249668.16	3130889.72	40° 1' 4.004 N	105° 1' 57.608 W	

Original Well Elev WELL @ 5155.0ft (Original Well Elev)

Synergy Resources







Pratt 24-29D
Plan #2 (12-30-10)
13:19, December 31 2010

Azimuths to True North
Magnetic North: 9.03°

Magnetic Field
Strength: 52946.5snT
Dip Angle: 66.71°
Date: 12/28/2010
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 662'FSL, 1968'FWL	5500.0	-440.0	791.0	40° 0' 59.656 N	105° 1' 47.442 W	Point
LEGAL BOX 400' X 400' 662'FSL & 1968'FWL	6200.0	-440.0	791.0	40° 0' 59.656 N	105° 1' 47.442 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	1664.4	13.29	119.09	1658.5	-37.3	67.0	2.00	119.09	76.7	
4	4935.0	13.29	119.09	4841.5	-402.7	724.0	0.00	0.00	828.4	
5	5599.4	0.00	0.00	5500.0	-440.0	791.0	2.00	180.00	905.2	TARGET BHL 662'FSL, 1968'FWL
6	7749.4	0.00	0.00	7650.0	-440.0	791.0	0.00	0.00	905.2	

Synergy Resources

SEC.29-T1N-R68W
Pratt 24-29D Pad Sec.29-T1N-R68W
Pratt 24-29D

Wellbore #1

Plan: Plan #2 (12-30-10)

Standard Planning Report

31 December, 2010

Database:	Landmark	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Project:	SEC.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (12-30-10)		

Project SEC.29-T1N-R68W, Weld County, Colorado

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site Pratt 24-29D Pad Sec.29-T1N-R68W

Site Position:		**Northing:**	1,249,668.17 ft	**Latitude:**	40° 1' 4.004 N
From:	Lat/Long	**Easting:**	3,130,889.72 ft	**Longitude:**	105° 1' 57.608 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.30 °

Well Pratt 24-29D

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,249,668.16 ft	**Latitude:**	40° 1' 4.004 N
	+E/-W	0.0 ft	**Easting:**	3,130,889.72 ft	**Longitude:**	105° 1' 57.608 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,142.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/28/2010	9.03	66.71	52,946

Design Plan #2 (12-30-10)

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	119.09

Plan Sections

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	
1,664.4	13.29	119.09	1,658.5	-37.3	67.0	2.00	2.00	0.00	119.09	
4,935.0	13.29	119.09	4,841.5	-402.7	724.0	0.00	0.00	0.00	0.00	
5,599.4	0.00	0.00	5,500.0	-440.0	791.0	2.00	-2.00	0.00	180.00	TARGET BHL 662'I
7,749.4	0.00	0.00	7,650.0	-440.0	791.0	0.00	0.00	0.00	0.00	

Database:	Landmark	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Project:	SEC.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (12-30-10)		

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
50.0	0.00	0.00	50.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
150.0	0.00	0.00	150.0	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
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	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
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
550.0	0.00	0.00	550.0	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
650.0	0.00	0.00	650.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
750.0	0.00	0.00	750.0	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
850.0	0.00	0.00	850.0	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
8 5/8"									
950.0	0.00	0.00	950.0	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
1,050.0	1.00	119.09	1,050.0	-0.2	0.4	0.4	2.00	2.00	0.00
1,100.0	2.00	119.09	1,100.0	-0.8	1.5	1.7	2.00	2.00	0.00
1,150.0	3.00	119.09	1,149.9	-1.9	3.4	3.9	2.00	2.00	0.00
1,200.0	4.00	119.09	1,199.8	-3.4	6.1	7.0	2.00	2.00	0.00
1,250.0	5.00	119.09	1,249.7	-5.3	9.5	10.9	2.00	2.00	0.00
1,300.0	6.00	119.09	1,299.5	-7.6	13.7	15.7	2.00	2.00	0.00
1,350.0	7.00	119.09	1,349.1	-10.4	18.7	21.4	2.00	2.00	0.00
1,400.0	8.00	119.09	1,398.7	-13.6	24.4	27.9	2.00	2.00	0.00
1,450.0	9.00	119.09	1,448.2	-17.1	30.8	35.3	2.00	2.00	0.00
1,500.0	10.00	119.09	1,497.5	-21.2	38.0	43.5	2.00	2.00	0.00
1,550.0	11.00	119.09	1,546.6	-25.6	46.0	52.6	2.00	2.00	0.00
1,600.0	12.00	119.09	1,595.6	-30.4	54.7	62.6	2.00	2.00	0.00
1,650.0	13.00	119.09	1,644.4	-35.7	64.2	73.4	2.00	2.00	0.00
1,664.4	13.29	119.09	1,658.5	-37.3	67.0	76.7	2.00	2.00	0.00
1,700.0	13.29	119.09	1,693.1	-41.3	74.2	84.9	0.00	0.00	0.00
1,750.0	13.29	119.09	1,741.8	-46.9	84.2	96.4	0.00	0.00	0.00
1,800.0	13.29	119.09	1,790.4	-52.4	94.3	107.9	0.00	0.00	0.00
1,850.0	13.29	119.09	1,839.1	-58.0	104.3	119.4	0.00	0.00	0.00
1,900.0	13.29	119.09	1,887.8	-63.6	114.3	130.9	0.00	0.00	0.00
1,950.0	13.29	119.09	1,936.4	-69.2	124.4	142.3	0.00	0.00	0.00
2,000.0	13.29	119.09	1,985.1	-74.8	134.4	153.8	0.00	0.00	0.00
2,050.0	13.29	119.09	2,033.7	-80.4	144.5	165.3	0.00	0.00	0.00
2,100.0	13.29	119.09	2,082.4	-86.0	154.5	176.8	0.00	0.00	0.00
2,150.0	13.29	119.09	2,131.1	-91.5	164.6	188.3	0.00	0.00	0.00
2,200.0	13.29	119.09	2,179.7	-97.1	174.6	199.8	0.00	0.00	0.00
2,250.0	13.29	119.09	2,228.4	-102.7	184.6	211.3	0.00	0.00	0.00
2,300.0	13.29	119.09	2,277.0	-108.3	194.7	222.8	0.00	0.00	0.00
2,350.0	13.29	119.09	2,325.7	-113.9	204.7	234.3	0.00	0.00	0.00
2,400.0	13.29	119.09	2,374.4	-119.5	214.8	245.8	0.00	0.00	0.00
2,450.0	13.29	119.09	2,423.0	-125.1	224.8	257.3	0.00	0.00	0.00
2,500.0	13.29	119.09	2,471.7	-130.7	234.9	268.8	0.00	0.00	0.00
2,550.0	13.29	119.09	2,520.3	-136.2	244.9	280.3	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Project:	SEC.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (12-30-10)		

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)
2,600.0	13.29	119.09	2,569.0	-141.8	254.9	291.7	0.00	0.00	0.00
2,650.0	13.29	119.09	2,617.7	-147.4	265.0	303.2	0.00	0.00	0.00
2,700.0	13.29	119.09	2,666.3	-153.0	275.0	314.7	0.00	0.00	0.00
2,750.0	13.29	119.09	2,715.0	-158.6	285.1	326.2	0.00	0.00	0.00
2,800.0	13.29	119.09	2,763.7	-164.2	295.1	337.7	0.00	0.00	0.00
2,850.0	13.29	119.09	2,812.3	-169.8	305.2	349.2	0.00	0.00	0.00
2,900.0	13.29	119.09	2,861.0	-175.4	315.2	360.7	0.00	0.00	0.00
2,950.0	13.29	119.09	2,909.6	-180.9	325.3	372.2	0.00	0.00	0.00
3,000.0	13.29	119.09	2,958.3	-186.5	335.3	383.7	0.00	0.00	0.00
3,050.0	13.29	119.09	3,007.0	-192.1	345.3	395.2	0.00	0.00	0.00
3,100.0	13.29	119.09	3,055.6	-197.7	355.4	406.7	0.00	0.00	0.00
3,150.0	13.29	119.09	3,104.3	-203.3	365.4	418.2	0.00	0.00	0.00
3,200.0	13.29	119.09	3,152.9	-208.9	375.5	429.7	0.00	0.00	0.00
3,250.0	13.29	119.09	3,201.6	-214.5	385.5	441.1	0.00	0.00	0.00
3,300.0	13.29	119.09	3,250.3	-220.0	395.6	452.6	0.00	0.00	0.00
3,350.0	13.29	119.09	3,298.9	-225.6	405.6	464.1	0.00	0.00	0.00
3,400.0	13.29	119.09	3,347.6	-231.2	415.6	475.6	0.00	0.00	0.00
3,450.0	13.29	119.09	3,396.3	-236.8	425.7	487.1	0.00	0.00	0.00
3,500.0	13.29	119.09	3,444.9	-242.4	435.7	498.6	0.00	0.00	0.00
3,550.0	13.29	119.09	3,493.6	-248.0	445.8	510.1	0.00	0.00	0.00
3,600.0	13.29	119.09	3,542.2	-253.6	455.8	521.6	0.00	0.00	0.00
3,650.0	13.29	119.09	3,590.9	-259.2	465.9	533.1	0.00	0.00	0.00
3,700.0	13.29	119.09	3,639.6	-264.7	475.9	544.6	0.00	0.00	0.00
3,750.0	13.29	119.09	3,688.2	-270.3	485.9	556.1	0.00	0.00	0.00
3,800.0	13.29	119.09	3,736.9	-275.9	496.0	567.6	0.00	0.00	0.00
3,850.0	13.29	119.09	3,785.5	-281.5	506.0	579.1	0.00	0.00	0.00
3,900.0	13.29	119.09	3,834.2	-287.1	516.1	590.5	0.00	0.00	0.00
3,950.0	13.29	119.09	3,882.9	-292.7	526.1	602.0	0.00	0.00	0.00
4,000.0	13.29	119.09	3,931.5	-298.3	536.2	613.5	0.00	0.00	0.00
4,050.0	13.29	119.09	3,980.2	-303.9	546.2	625.0	0.00	0.00	0.00
4,100.0	13.29	119.09	4,028.9	-309.4	556.2	636.5	0.00	0.00	0.00
4,150.0	13.29	119.09	4,077.5	-315.0	566.3	648.0	0.00	0.00	0.00
4,200.0	13.29	119.09	4,126.2	-320.6	576.3	659.5	0.00	0.00	0.00
4,250.0	13.29	119.09	4,174.8	-326.2	586.4	671.0	0.00	0.00	0.00
4,300.0	13.29	119.09	4,223.5	-331.8	596.4	682.5	0.00	0.00	0.00
4,350.0	13.29	119.09	4,272.2	-337.4	606.5	694.0	0.00	0.00	0.00
4,400.0	13.29	119.09	4,320.8	-343.0	616.5	705.5	0.00	0.00	0.00
4,450.0	13.29	119.09	4,369.5	-348.5	626.5	717.0	0.00	0.00	0.00
4,500.0	13.29	119.09	4,418.1	-354.1	636.6	728.5	0.00	0.00	0.00
4,550.0	13.29	119.09	4,466.8	-359.7	646.6	739.9	0.00	0.00	0.00
4,600.0	13.29	119.09	4,515.5	-365.3	656.7	751.4	0.00	0.00	0.00
4,650.0	13.29	119.09	4,564.1	-370.9	666.7	762.9	0.00	0.00	0.00
4,700.0	13.29	119.09	4,612.8	-376.5	676.8	774.4	0.00	0.00	0.00
4,750.0	13.29	119.09	4,661.4	-382.1	686.8	785.9	0.00	0.00	0.00
4,800.0	13.29	119.09	4,710.1	-387.7	696.8	797.4	0.00	0.00	0.00
4,850.0	13.29	119.09	4,758.8	-393.2	706.9	808.9	0.00	0.00	0.00
4,900.0	13.29	119.09	4,807.4	-398.8	716.9	820.4	0.00	0.00	0.00
4,935.0	13.29	119.09	4,841.5	-402.7	724.0	828.4	0.00	0.00	0.00
4,950.0	12.99	119.09	4,856.1	-404.4	726.9	831.9	2.00	-2.00	0.00
5,000.0	11.99	119.09	4,904.9	-409.7	736.4	842.7	2.00	-2.00	0.00
5,050.0	10.99	119.09	4,953.9	-414.5	745.1	852.6	2.00	-2.00	0.00
5,100.0	9.99	119.09	5,003.1	-418.9	753.0	861.7	2.00	-2.00	0.00
5,150.0	8.99	119.09	5,052.4	-422.9	760.2	870.0	2.00	-2.00	0.00
5,200.0	7.99	119.09	5,101.8	-426.5	766.7	877.3	2.00	-2.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Project:	SEC.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (12-30-10)		

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)
5,250.0	6.99	119.09	5,151.4	-429.7	772.4	883.9	2.00	-2.00	0.00
5,300.0	5.99	119.09	5,201.1	-432.4	777.3	889.5	2.00	-2.00	0.00
5,350.0	4.99	119.09	5,250.9	-434.8	781.5	894.3	2.00	-2.00	0.00
5,400.0	3.99	119.09	5,300.7	-436.7	784.9	898.2	2.00	-2.00	0.00
5,450.0	2.99	119.09	5,350.6	-438.1	787.6	901.3	2.00	-2.00	0.00
5,500.0	1.99	119.09	5,400.6	-439.2	789.5	903.4	2.00	-2.00	0.00
5,550.0	0.99	119.09	5,450.6	-439.8	790.6	904.7	2.00	-2.00	0.00
5,599.4	0.00	0.00	5,500.0	-440.0	791.0	905.2	2.00	-2.00	0.00
5,600.0	0.00	0.00	5,500.6	-440.0	791.0	905.2	0.00	0.00	0.00
5,650.0	0.00	0.00	5,550.6	-440.0	791.0	905.2	0.00	0.00	0.00
5,700.0	0.00	0.00	5,600.6	-440.0	791.0	905.2	0.00	0.00	0.00
5,750.0	0.00	0.00	5,650.6	-440.0	791.0	905.2	0.00	0.00	0.00
5,800.0	0.00	0.00	5,700.6	-440.0	791.0	905.2	0.00	0.00	0.00
5,850.0	0.00	0.00	5,750.6	-440.0	791.0	905.2	0.00	0.00	0.00
5,900.0	0.00	0.00	5,800.6	-440.0	791.0	905.2	0.00	0.00	0.00
5,950.0	0.00	0.00	5,850.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,900.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,050.0	0.00	0.00	5,950.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,100.0	0.00	0.00	6,000.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,150.0	0.00	0.00	6,050.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,200.0	0.00	0.00	6,100.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,250.0	0.00	0.00	6,150.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,300.0	0.00	0.00	6,200.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,350.0	0.00	0.00	6,250.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,300.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,450.0	0.00	0.00	6,350.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,400.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,550.0	0.00	0.00	6,450.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,500.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,650.0	0.00	0.00	6,550.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,600.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,750.0	0.00	0.00	6,650.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,700.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,850.0	0.00	0.00	6,750.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,900.0	0.00	0.00	6,800.6	-440.0	791.0	905.2	0.00	0.00	0.00
6,950.0	0.00	0.00	6,850.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,900.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,050.0	0.00	0.00	6,950.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,100.0	0.00	0.00	7,000.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,150.0	0.00	0.00	7,050.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,100.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,250.0	0.00	0.00	7,150.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,200.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,350.0	0.00	0.00	7,250.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,300.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,450.0	0.00	0.00	7,350.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,400.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,550.0	0.00	0.00	7,450.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,500.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,650.0	0.00	0.00	7,550.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,600.6	-440.0	791.0	905.2	0.00	0.00	0.00
7,749.4	0.00	0.00	7,650.0	-440.0	791.0	905.2	0.00	0.00	0.00

Database:	Landmark	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Project:	SEC.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (12-30-10)		

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
TARGET BHL 662'FS - plan hits target center - Point	0.00	0.00	5,500.0	-440.0	791.0	1,249,232.31	3,131,682.99	40° 0' 59.656 N	105° 1' 47.442 W
LEGAL BOX 400' X 4(- plan hits target center - Rectangle (sides W400.0 H400.0 D1,450.0)	0.00	0.00	6,200.0	-440.0	791.0	1,249,232.36	3,131,683.00	40° 0' 59.656 N	105° 1' 47.442 W

Casing Points

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

ENSIGN Directional

Synergy Resources

SEC.29-T1N-R68W
Pratt 24-29D Pad Sec.29-T1N-R68W
Pratt 24-29D

Wellbore #1
Plan #2 (12-30-10)

Anticollision Report

31 December, 2010

ENSIGN Directional

Anticollision Report

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Reference Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (12-30-10)	**Offset TVD Reference:**	Offset Datum

Reference Plan #2 (12-30-10)

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 50.0ft	**Error Model:**	ISCWSA
Depth Range:	0.0 to 7,749.4ft	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 200.0ft	**Error Surface:**	Elliptical Conic

Warning Levels Evaluated at: 2.00 **Sigma**

Survey Tool Program **Date** 12/30/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	7,749.4	Plan #2 (12-30-10) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Pratt 24-29D Pad Sec.29-T1N-R68W						
Pratt 13-29D - Wellbore #1 - Plan #1 (12-28-10)	1,000.0	1,000.0	80.1	75.9	18.887	CC, ES
Pratt 13-29D - Wellbore #1 - Plan #1 (12-28-10)	1,200.0	1,199.8	86.3	81.2	16.986	SF
Pratt 14-29D - Wellbore #1 - Plan #2 (12-30-10)	1,000.0	999.0	100.0	95.8	23.588	CC, ES
Pratt 14-29D - Wellbore #1 - Plan #2 (12-30-10)	1,250.0	1,248.5	109.7	104.5	21.131	SF
Pratt 29HD - Wellbore #1 - Plan #2 (12-30-10)	1,000.0	999.0	120.2	115.9	28.345	CC, ES
Pratt 29HD - Wellbore #1 - Plan #2 (12-30-10)	1,150.0	1,142.8	127.2	122.4	26.265	SF
Pratt 29LD - Wellbore #1 - Plan #1 (12-28-10)	1,000.0	999.0	59.9	55.7	14.140	CC, ES
Pratt 29LD - Wellbore #1 - Plan #1 (12-28-10)	1,200.0	1,199.6	64.8	59.8	12.953	SF
Pratt QD - Wellbore #1 - Plan #2 (12-30-10)	334.2	334.2	19.9	18.7	16.309	CC
Pratt QD - Wellbore #1 - Plan #2 (12-30-10)	350.0	350.0	19.9	18.6	15.453	ES
Pratt QD - Wellbore #1 - Plan #2 (12-30-10)	550.0	549.5	25.4	23.2	11.454	SF

Offset Design Pratt 24-29D Pad Sec.29-T1N-R68W - Pratt 13-29D - Wellbore #1 - Plan #1 (12-28-10)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-80.1	80.1				
50.0	50.0	50.0	50.0	0.0	0.0	-90.00	0.0	-80.1	80.1	80.0	0.09	885.458	
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-80.1	80.1	79.9	0.20	409.652	
150.0	150.0	150.0	150.0	0.2	0.2	-90.00	0.0	-80.1	80.1	79.7	0.42	190.587	
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-80.1	80.1	79.5	0.65	124.180	
250.0	250.0	250.0	250.0	0.4	0.4	-90.00	0.0	-80.1	80.1	79.2	0.87	92.092	
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-80.1	80.1	79.0	1.09	73.182	
350.0	350.0	350.0	350.0	0.7	0.7	-90.00	0.0	-80.1	80.1	78.8	1.32	60.715	
400.0	400.0	400.0	400.0	0.8	0.8	-90.00	0.0	-80.1	80.1	78.6	1.54	51.877	
450.0	450.0	450.0	450.0	0.9	0.9	-90.00	0.0	-80.1	80.1	78.3	1.77	45.286	
500.0	500.0	500.0	500.0	1.0	1.0	-90.00	0.0	-80.1	80.1	78.1	1.99	40.180	
550.0	550.0	550.0	550.0	1.1	1.1	-90.00	0.0	-80.1	80.1	77.9	2.22	36.109	
600.0	600.0	600.0	600.0	1.2	1.2	-90.00	0.0	-80.1	80.1	77.7	2.44	32.787	
650.0	650.0	650.0	650.0	1.3	1.3	-90.00	0.0	-80.1	80.1	77.4	2.67	30.025	
700.0	700.0	700.0	700.0	1.4	1.4	-90.00	0.0	-80.1	80.1	77.2	2.89	27.692	
750.0	750.0	750.0	750.0	1.6	1.6	-90.00	0.0	-80.1	80.1	77.0	3.12	25.696	

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

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Reference Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (12-30-10)	**Offset TVD Reference:**	Offset Datum

Offset Design Pratt 24-29D Pad Sec.29-T1N-R68W - Pratt 13-29D - Wellbore #1 - Plan #1 (12-28-10)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
800.0	800.0	800.0	800.0	1.7	1.7	-90.00	0.0	-80.1	80.1	76.8	3.34	23.968	
850.0	850.0	850.0	850.0	1.8	1.8	-90.00	0.0	-80.1	80.1	76.5	3.57	22.457	
900.0	900.0	900.0	900.0	1.9	1.9	-90.00	0.0	-80.1	80.1	76.3	3.79	21.126	
950.0	950.0	950.0	950.0	2.0	2.0	-90.00	0.0	-80.1	80.1	76.1	4.02	19.944	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-90.00	0.0	-80.1	80.1	75.9	4.24	18.887	CC, ES
1,050.0	1,050.0	1,050.0	1,050.0	2.2	2.2	151.06	0.0	-80.1	80.5	76.0	4.46	18.064	
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	151.50	0.0	-80.1	81.6	77.0	4.67	17.484	
1,150.0	1,149.9	1,149.9	1,149.9	2.4	2.5	152.19	0.0	-80.1	83.6	78.7	4.88	17.140	
1,200.0	1,199.8	1,199.8	1,199.8	2.5	2.6	153.11	0.0	-80.1	86.3	81.2	5.08	16.986	SF
1,250.0	1,249.7	1,248.9	1,248.9	2.6	2.7	154.42	0.4	-80.3	90.0	84.7	5.28	17.034	
1,300.0	1,299.5	1,297.7	1,297.7	2.7	2.8	156.25	1.5	-80.9	95.0	89.6	5.49	17.322	
1,350.0	1,349.1	1,346.2	1,346.1	2.8	2.9	158.45	3.3	-81.8	101.5	95.8	5.69	17.823	
1,400.0	1,398.7	1,394.3	1,394.2	3.0	3.0	160.86	5.9	-83.1	109.3	103.4	5.89	18.547	
1,450.0	1,448.2	1,442.0	1,441.7	3.1	3.1	163.35	9.1	-84.8	118.7	112.6	6.10	19.462	
1,500.0	1,497.5	1,489.1	1,488.6	3.2	3.2	165.81	12.9	-86.8	129.7	123.4	6.30	20.585	
1,550.0	1,546.6	1,535.6	1,534.8	3.4	3.3	168.17	17.4	-89.1	142.3	135.8	6.51	21.870	
1,600.0	1,595.6	1,581.4	1,580.3	3.5	3.4	170.38	22.5	-91.8	156.5	149.8	6.71	23.339	
1,650.0	1,644.4	1,626.5	1,625.0	3.7	3.6	172.42	28.1	-94.7	172.3	165.4	6.91	24.943	
1,700.0	1,693.1	1,671.0	1,668.8	3.9	3.7	174.30	34.3	-97.9	189.5	182.4	7.12	26.617	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Reference Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (12-30-10)	**Offset TVD Reference:**	Offset Datum

Offset Design Pratt 24-29D Pad Sec.29-T1N-R68W - Pratt 14-29D - Wellbore #1 - Plan #2 (12-30-10)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-100.0	100.0				
50.0	50.0	49.0	49.0	0.0	0.0	-90.00	0.0	-100.0	100.0	99.9	0.09	1,117.350	
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-100.0	100.0	99.8	0.19	513.918	
150.0	150.0	149.0	149.0	0.2	0.2	-90.00	0.0	-100.0	100.0	99.6	0.42	239.179	
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-100.0	100.0	99.3	0.64	155.550	
250.0	250.0	249.0	249.0	0.4	0.4	-90.00	0.0	-100.0	100.0	99.1	0.87	115.252	
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-100.0	100.0	98.9	1.09	91.538	
350.0	350.0	349.0	349.0	0.7	0.7	-90.00	0.0	-100.0	100.0	98.7	1.32	75.917	
400.0	400.0	399.0	399.0	0.8	0.8	-90.00	0.0	-100.0	100.0	98.5	1.54	64.850	
450.0	450.0	449.0	449.0	0.9	0.9	-90.00	0.0	-100.0	100.0	98.2	1.77	56.600	
500.0	500.0	499.0	499.0	1.0	1.0	-90.00	0.0	-100.0	100.0	98.0	1.99	50.211	
550.0	550.0	549.0	549.0	1.1	1.1	-90.00	0.0	-100.0	100.0	97.8	2.22	45.119	
600.0	600.0	599.0	599.0	1.2	1.2	-90.00	0.0	-100.0	100.0	97.6	2.44	40.964	
650.0	650.0	649.0	649.0	1.3	1.3	-90.00	0.0	-100.0	100.0	97.3	2.67	37.510	
700.0	700.0	699.0	699.0	1.4	1.4	-90.00	0.0	-100.0	100.0	97.1	2.89	34.594	
750.0	750.0	749.0	749.0	1.6	1.6	-90.00	0.0	-100.0	100.0	96.9	3.12	32.098	
800.0	800.0	799.0	799.0	1.7	1.7	-90.00	0.0	-100.0	100.0	96.7	3.34	29.938	
850.0	850.0	849.0	849.0	1.8	1.8	-90.00	0.0	-100.0	100.0	96.4	3.56	28.050	
900.0	900.0	899.0	899.0	1.9	1.9	-90.00	0.0	-100.0	100.0	96.2	3.79	26.386	
950.0	950.0	949.0	949.0	2.0	2.0	-90.00	0.0	-100.0	100.0	96.0	4.01	24.909	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	-90.00	0.0	-100.0	100.0	95.8	4.24	23.588	CC, ES
1,050.0	1,050.0	1,049.0	1,049.0	2.2	2.2	150.79	-0.4	-100.0	100.4	95.9	4.44	22.611	
1,100.0	1,100.0	1,099.0	1,099.0	2.3	2.3	150.41	-1.7	-100.0	101.5	96.9	4.64	21.889	
1,150.0	1,149.9	1,148.9	1,148.8	2.4	2.4	149.79	-3.9	-100.0	103.4	98.6	4.82	21.463	
1,200.0	1,199.8	1,198.8	1,198.6	2.5	2.5	148.96	-6.9	-100.0	106.1	101.1	5.00	21.232	
1,250.0	1,249.7	1,248.5	1,248.2	2.6	2.6	147.94	-10.8	-100.0	109.7	104.5	5.19	21.131	SF
1,300.0	1,299.5	1,296.5	1,296.0	2.7	2.7	146.95	-15.1	-100.3	114.3	108.9	5.38	21.238	
1,350.0	1,349.1	1,344.3	1,343.5	2.8	2.8	146.13	-19.7	-101.4	120.5	114.9	5.59	21.557	
1,400.0	1,398.7	1,391.7	1,390.7	3.0	2.9	145.47	-24.6	-103.2	128.3	122.5	5.80	22.118	
1,450.0	1,448.2	1,438.7	1,437.4	3.1	3.0	144.96	-29.7	-105.7	137.5	131.5	6.02	22.836	
1,500.0	1,497.5	1,485.3	1,483.5	3.2	3.1	144.59	-35.1	-108.9	148.2	141.9	6.24	23.740	
1,550.0	1,546.6	1,531.5	1,529.2	3.4	3.2	144.33	-40.6	-112.8	160.3	153.8	6.48	24.757	
1,600.0	1,595.6	1,577.0	1,574.2	3.5	3.4	144.17	-46.4	-117.2	173.9	167.2	6.71	25.917	
1,650.0	1,644.4	1,622.0	1,618.4	3.7	3.5	144.07	-52.4	-122.3	188.9	181.9	6.95	27.159	

ENSIGN Directional

Anticollision Report

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Reference Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (12-30-10)	**Offset TVD Reference:**	Offset Datum

Offset Design Pratt 24-29D Pad Sec.29-T1N-R68W - Pratt 29HD - Wellbore #1 - Plan #2 (12-30-10)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-120.2	120.2				
50.0	50.0	49.0	49.0	0.0	0.0	-90.00	0.0	-120.2	120.2	120.1	0.09	1,342.698	
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-120.2	120.2	120.0	0.19	617.565	
150.0	150.0	149.0	149.0	0.2	0.2	-90.00	0.0	-120.2	120.2	119.7	0.42	287.417	
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-120.2	120.2	119.5	0.64	186.922	
250.0	250.0	249.0	249.0	0.4	0.4	-90.00	0.0	-120.2	120.2	119.3	0.87	138.496	
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-120.2	120.2	119.1	1.09	109.999	
350.0	350.0	349.0	349.0	0.7	0.7	-90.00	0.0	-120.2	120.2	118.8	1.32	91.228	
400.0	400.0	399.0	399.0	0.8	0.8	-90.00	0.0	-120.2	120.2	118.6	1.54	77.929	
450.0	450.0	449.0	449.0	0.9	0.9	-90.00	0.0	-120.2	120.2	118.4	1.77	68.015	
500.0	500.0	499.0	499.0	1.0	1.0	-90.00	0.0	-120.2	120.2	118.2	1.99	60.338	
550.0	550.0	549.0	549.0	1.1	1.1	-90.00	0.0	-120.2	120.2	117.9	2.22	54.219	
600.0	600.0	599.0	599.0	1.2	1.2	-90.00	0.0	-120.2	120.2	117.7	2.44	49.226	
650.0	650.0	649.0	649.0	1.3	1.3	-90.00	0.0	-120.2	120.2	117.5	2.67	45.076	
700.0	700.0	699.0	699.0	1.4	1.4	-90.00	0.0	-120.2	120.2	117.3	2.89	41.570	
750.0	750.0	749.0	749.0	1.6	1.6	-90.00	0.0	-120.2	120.2	117.0	3.12	38.571	
800.0	800.0	799.0	799.0	1.7	1.7	-90.00	0.0	-120.2	120.2	116.8	3.34	35.975	
850.0	850.0	849.0	849.0	1.8	1.8	-90.00	0.0	-120.2	120.2	116.6	3.56	33.707	
900.0	900.0	899.0	899.0	1.9	1.9	-90.00	0.0	-120.2	120.2	116.4	3.79	31.708	
950.0	950.0	949.0	949.0	2.0	2.0	-90.00	0.0	-120.2	120.2	116.1	4.01	29.933	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	-90.00	0.0	-120.2	120.2	115.9	4.24	28.345	CC, ES
1,050.0	1,050.0	1,047.1	1,047.1	2.2	2.2	151.04	0.1	-120.5	120.9	116.5	4.44	27.211	
1,100.0	1,100.0	1,095.0	1,095.0	2.3	2.3	151.42	0.3	-121.7	123.3	118.6	4.65	26.520	
1,150.0	1,149.9	1,142.8	1,142.7	2.4	2.4	152.02	0.8	-123.6	127.2	122.4	4.84	26.265	SF
1,200.0	1,199.8	1,190.3	1,190.2	2.5	2.5	152.80	1.4	-126.3	132.8	127.8	5.04	26.356	
1,250.0	1,249.7	1,237.5	1,237.3	2.6	2.6	153.71	2.2	-129.8	140.0	134.7	5.24	26.720	
1,300.0	1,299.5	1,284.3	1,283.9	2.7	2.7	154.69	3.1	-133.9	148.7	143.3	5.44	27.365	
1,350.0	1,349.1	1,330.7	1,330.0	2.8	2.8	155.71	4.2	-138.8	159.1	153.5	5.64	28.229	
1,400.0	1,398.7	1,376.5	1,375.4	3.0	3.0	156.71	5.4	-144.3	171.1	165.3	5.84	29.324	
1,450.0	1,448.2	1,421.7	1,420.2	3.1	3.1	157.68	6.8	-150.4	184.8	178.7	6.04	30.592	
1,500.0	1,497.5	1,466.2	1,464.1	3.2	3.2	158.60	8.3	-157.1	200.0	193.7	6.24	32.052	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Reference Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (12-30-10)	**Offset TVD Reference:**	Offset Datum

Offset Design Pratt 24-29D Pad Sec.29-T1N-R68W - Pratt 29LD - Wellbore #1 - Plan #1 (12-28-10)

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-59.9	59.9				
50.0	50.0	49.0	49.0	0.0	0.0	-90.00	0.0	-59.9	59.9	59.8	0.09	669.784	
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-59.9	59.9	59.7	0.19	308.063	
150.0	150.0	149.0	149.0	0.2	0.2	-90.00	0.0	-59.9	59.9	59.5	0.42	143.374	
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-59.9	59.9	59.3	0.64	93.243	
250.0	250.0	249.0	249.0	0.4	0.4	-90.00	0.0	-59.9	59.9	59.1	0.87	69.087	
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-59.9	59.9	58.8	1.09	54.871	
350.0	350.0	349.0	349.0	0.7	0.7	-90.00	0.0	-59.9	59.9	58.6	1.32	45.508	
400.0	400.0	399.0	399.0	0.8	0.8	-90.00	0.0	-59.9	59.9	58.4	1.54	38.874	
450.0	450.0	449.0	449.0	0.9	0.9	-90.00	0.0	-59.9	59.9	58.2	1.77	33.928	
500.0	500.0	499.0	499.0	1.0	1.0	-90.00	0.0	-59.9	59.9	57.9	1.99	30.099	
550.0	550.0	549.0	549.0	1.1	1.1	-90.00	0.0	-59.9	59.9	57.7	2.22	27.046	
600.0	600.0	599.0	599.0	1.2	1.2	-90.00	0.0	-59.9	59.9	57.5	2.44	24.556	
650.0	650.0	649.0	649.0	1.3	1.3	-90.00	0.0	-59.9	59.9	57.3	2.67	22.485	
700.0	700.0	699.0	699.0	1.4	1.4	-90.00	0.0	-59.9	59.9	57.0	2.89	20.737	
750.0	750.0	749.0	749.0	1.6	1.6	-90.00	0.0	-59.9	59.9	56.8	3.12	19.241	
800.0	800.0	799.0	799.0	1.7	1.7	-90.00	0.0	-59.9	59.9	56.6	3.34	17.946	
850.0	850.0	849.0	849.0	1.8	1.8	-90.00	0.0	-59.9	59.9	56.4	3.56	16.814	
900.0	900.0	899.0	899.0	1.9	1.9	-90.00	0.0	-59.9	59.9	56.1	3.79	15.817	
950.0	950.0	949.0	949.0	2.0	2.0	-90.00	0.0	-59.9	59.9	55.9	4.01	14.931	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	-90.00	0.0	-59.9	59.9	55.7	4.24	14.140	CC, ES
1,050.0	1,050.0	1,049.2	1,049.2	2.2	2.2	150.72	-0.4	-59.9	60.2	55.8	4.44	13.569	
1,100.0	1,100.0	1,099.4	1,099.4	2.3	2.3	150.11	-1.7	-59.6	61.1	56.5	4.64	13.179	
1,150.0	1,149.9	1,149.5	1,149.5	2.4	2.4	149.14	-3.8	-59.2	62.6	57.8	4.82	12.994	
1,200.0	1,199.8	1,199.6	1,199.5	2.5	2.5	147.84	-6.8	-58.6	64.8	59.8	5.00	12.953	SF
1,250.0	1,249.7	1,249.7	1,249.4	2.6	2.6	146.28	-10.7	-57.8	67.6	62.4	5.19	13.009	
1,300.0	1,299.5	1,299.6	1,299.1	2.7	2.7	144.55	-15.4	-56.9	71.0	65.7	5.39	13.187	
1,350.0	1,349.1	1,349.5	1,348.6	2.8	2.8	142.70	-20.9	-55.8	75.2	69.6	5.60	13.434	
1,400.0	1,398.7	1,399.3	1,398.0	3.0	2.9	140.81	-27.2	-54.5	80.1	74.3	5.81	13.784	
1,450.0	1,448.2	1,448.9	1,447.0	3.1	3.0	138.92	-34.4	-53.1	85.7	79.7	6.05	14.170	
1,500.0	1,497.5	1,498.4	1,495.9	3.2	3.1	137.08	-42.4	-51.5	92.1	85.8	6.29	14.639	
1,550.0	1,546.6	1,547.7	1,544.4	3.4	3.3	135.31	-51.2	-49.8	99.2	92.6	6.56	15.111	
1,600.0	1,595.6	1,596.8	1,592.5	3.5	3.4	133.64	-60.8	-47.9	107.0	100.2	6.84	15.647	
1,650.0	1,644.4	1,645.8	1,640.4	3.7	3.6	132.07	-71.1	-45.9	115.6	108.5	7.15	16.163	
1,700.0	1,693.1	1,694.6	1,687.8	3.9	3.8	130.64	-82.2	-43.7	124.8	117.4	7.48	16.684	
1,750.0	1,741.8	1,743.4	1,735.2	4.1	4.0	129.13	-94.0	-41.3	134.2	126.4	7.84	17.118	
1,800.0	1,790.4	1,792.4	1,782.6	4.3	4.2	127.78	-105.9	-39.0	143.7	135.5	8.21	17.508	
1,850.0	1,839.1	1,841.4	1,830.1	4.5	4.4	126.60	-117.9	-36.6	153.3	144.7	8.60	17.833	
1,900.0	1,887.8	1,890.4	1,877.5	4.7	4.6	125.55	-129.8	-34.3	162.9	154.0	8.98	18.139	
1,950.0	1,936.4	1,939.4	1,925.0	4.9	4.8	124.62	-141.7	-31.9	172.6	163.2	9.38	18.397	
2,000.0	1,985.1	1,988.4	1,972.4	5.1	5.0	123.79	-153.7	-29.5	182.3	172.5	9.79	18.626	
2,050.0	2,033.7	2,037.3	2,019.8	5.4	5.2	123.04	-165.6	-27.2	192.1	181.9	10.20	18.827	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Reference Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (12-30-10)	**Offset TVD Reference:**	Offset Datum

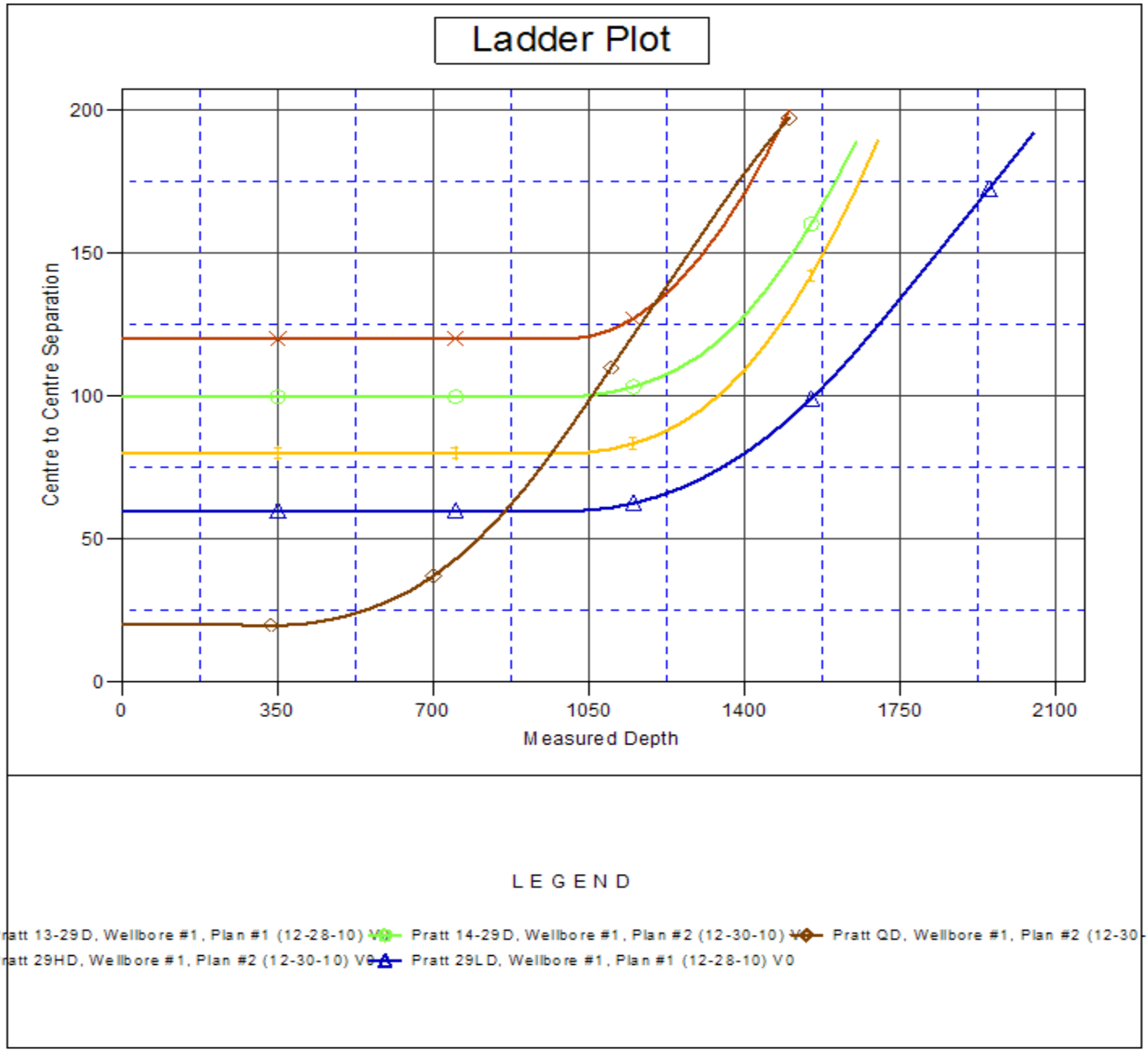
Offset Design Pratt 24-29D Pad Sec.29-T1N-R68W - Pratt QD - Wellbore #1 - Plan #2 (12-30-10) — **Offset Site Error:** 0.0 ft

Survey Program: 0-MWD — **Offset Well Error:** 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-91.03	-0.4	-20.2	20.2				
50.0	50.0	50.0	50.0	0.0	0.0	-91.03	-0.4	-20.2	20.2	20.1	0.09	222.949	
100.0	100.0	100.0	100.0	0.1	0.1	-91.03	-0.4	-20.2	20.2	20.0	0.20	103.146	
150.0	150.0	150.0	150.0	0.2	0.2	-91.03	-0.4	-20.2	20.2	19.7	0.42	47.988	
200.0	200.0	200.0	200.0	0.3	0.3	-91.03	-0.4	-20.2	20.2	19.5	0.65	31.267	
250.0	250.0	250.0	250.0	0.4	0.4	-92.27	-0.8	-20.1	20.1	19.2	0.86	23.399	
300.0	300.0	300.1	300.0	0.5	0.5	-95.99	-2.1	-19.9	20.0	18.9	1.07	18.607	
334.2	334.2	334.2	334.2	0.6	0.6	-100.00	-3.5	-19.6	19.9	18.7	1.22	16.309	CC
350.0	350.0	350.0	350.0	0.7	0.6	-102.25	-4.2	-19.5	19.9	18.6	1.29	15.453	ES
400.0	400.0	399.9	399.7	0.8	0.7	-110.88	-7.2	-19.0	20.3	18.8	1.51	13.467	
450.0	450.0	449.6	449.3	0.9	0.9	-121.20	-11.1	-18.3	21.4	19.6	1.73	12.325	
500.0	500.0	499.6	499.1	1.0	1.0	-132.20	-15.5	-17.1	23.1	21.2	1.97	11.744	
550.0	550.0	549.5	548.7	1.1	1.1	-143.23	-20.3	-15.2	25.4	23.2	2.22	11.454	SF
600.0	600.0	599.2	598.1	1.2	1.3	-153.91	-25.5	-12.5	28.4	25.9	2.47	11.502	
650.0	650.0	648.7	647.2	1.3	1.4	-163.83	-30.9	-9.0	32.3	29.6	2.74	11.800	
700.0	700.0	698.1	696.0	1.4	1.6	-172.70	-36.7	-4.7	37.2	34.2	3.00	12.373	
750.0	750.0	747.2	744.5	1.6	1.7	179.58	-42.7	0.3	43.1	39.8	3.29	13.109	
800.0	800.0	796.1	792.6	1.7	1.9	172.96	-49.1	6.1	50.0	46.4	3.57	14.021	
850.0	850.0	844.6	840.2	1.8	2.1	167.34	-55.7	12.5	57.9	54.1	3.86	14.998	
900.0	900.0	892.9	887.5	1.9	2.3	162.56	-62.6	19.7	66.8	62.7	4.16	16.074	
950.0	950.0	940.8	934.2	2.0	2.5	158.49	-69.8	27.5	76.7	72.2	4.47	17.154	
1,000.0	1,000.0	988.4	980.4	2.1	2.7	155.00	-77.2	36.0	87.4	82.6	4.78	18.281	
1,050.0	1,050.0	1,035.7	1,026.2	2.2	3.0	32.92	-84.9	45.1	98.7	94.2	4.52	21.827	
1,100.0	1,100.0	1,082.8	1,071.6	2.3	3.2	30.50	-92.8	54.9	110.1	105.3	4.74	23.197	
1,150.0	1,149.9	1,129.8	1,116.7	2.4	3.5	28.52	-101.0	65.4	121.5	116.5	4.97	24.461	
1,200.0	1,199.8	1,176.6	1,161.3	2.5	3.7	26.85	-109.4	76.5	133.0	127.8	5.19	25.624	
1,250.0	1,249.7	1,223.2	1,205.6	2.6	4.0	25.42	-118.1	88.2	144.4	139.0	5.42	26.645	
1,300.0	1,299.5	1,269.7	1,249.5	2.7	4.3	24.17	-127.1	100.6	155.9	150.2	5.65	27.580	
1,350.0	1,349.1	1,316.7	1,293.7	2.8	4.6	23.07	-136.4	113.7	167.3	161.4	5.89	28.403	
1,400.0	1,398.7	1,365.4	1,339.4	3.0	5.0	22.15	-146.1	127.5	178.1	172.0	6.13	29.032	
1,450.0	1,448.2	1,414.3	1,385.3	3.1	5.3	21.43	-155.8	141.4	188.2	181.8	6.38	29.477	
1,500.0	1,497.5	1,463.4	1,431.4	3.2	5.6	20.88	-165.6	155.3	197.5	190.8	6.63	29.765	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Reference Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (12-30-10)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5155.0ft (Original Well Elev) Coordinates are relative to: Pratt 24-29D
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: 0.30°



Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 24-29D
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Reference Site:	Pratt 24-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5155.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 24-29D	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	Landmark
Reference Design:	Plan #2 (12-30-10)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5155.0ft (Original Well Elev) Coordinates are relative to: Pratt 24-29D
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: 0.30°