ENSIGN Directional

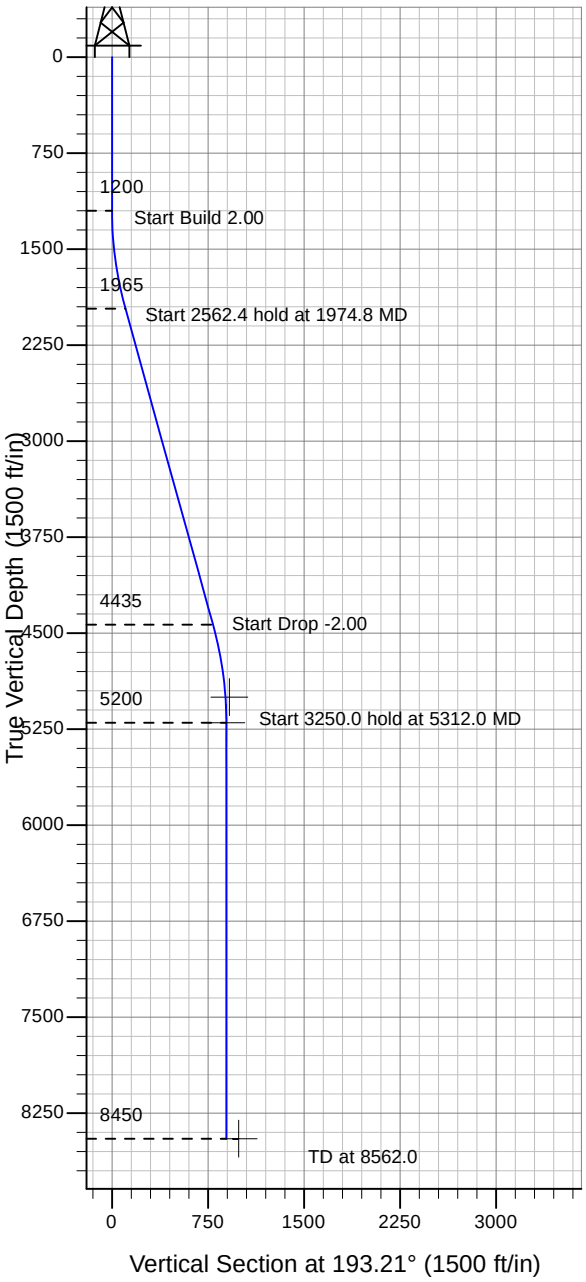
Well Name: Pratt 29TD

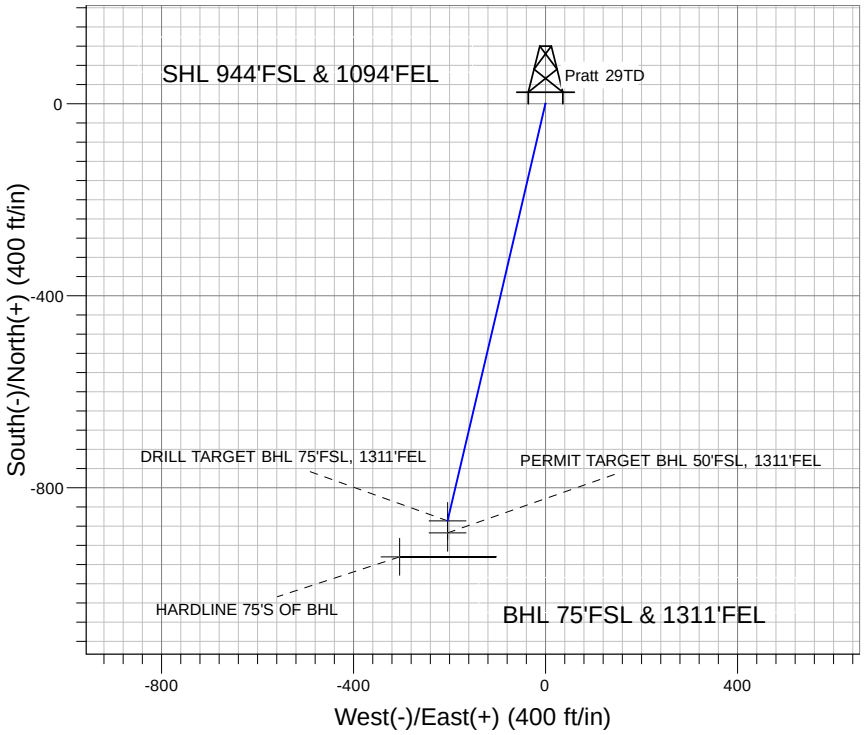
Surface Location: Pratt 34-29D Pad Sec.29-T1N-R68W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 5179.0

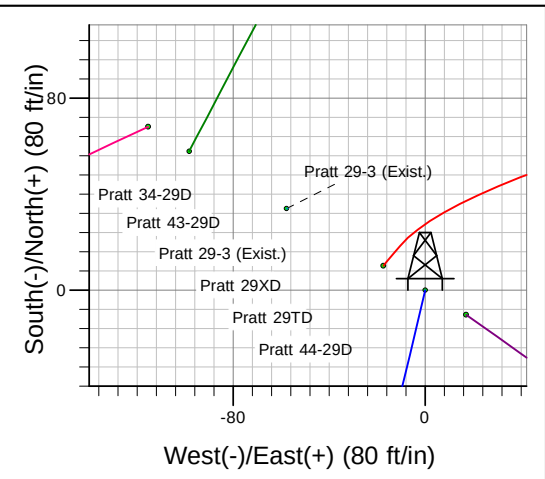
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1249520.82	3133864.45	40° 1' 2.391 N	105° 1' 19.384 W	

Original Well Elev WELL @ 5192.0ft (Original Well Elev)

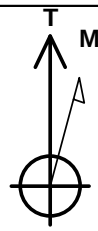
Synergy Resources







Pratt 34-29D Pad Sec.29-T1N-R68W
Pratt 29TD
Plan #1 (5-4-10)
18:19, May 07 2010



Azimuths to True North
Magnetic North: 9.11°

Magnetic Field
Strength: 53015.6snT
Dip Angle: 66.73°
Date: 5/4/2010
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PERMIT TARGET BHL 50'FSL, 1311'FEL	5000.0	-894.2	-204.1	40° 0' 53.554 N	105° 1' 22.007 W	Point
DRILL TARGET BHL 75'FSL, 1311'FEL	5200.0	-869.2	-204.1	40° 0' 53.802 N	105° 1' 22.007 W	Point
HARDLINE 75'S OF BHL	8450.0	-944.2	-304.1	40° 0' 53.061 N	105° 1' 23.292 W	Polygon

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	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1974.8	15.50	193.21	1965.4	-101.4	-23.8	2.00	193.21	104.1	
4	4537.2	15.50	193.21	4434.6	-767.8	-180.3	0.00	0.00	788.7	
5	5312.0	0.00	0.00	5200.0	-869.2	-204.1	2.00	180.00	892.8	DRILL TARGET BHL 75'FSL, 1311'FEL
6	8562.0	0.00	0.00	8450.0	-869.2	-204.1	0.00	0.00	892.8	

Synergy Resources

SEC.29-T1N-R68W
Pratt 34-29D Pad Sec.29-T1N-R68W
Pratt 29TD

Wellbore #1

Plan: Plan #1 (5-4-10)

Standard Planning Report

07 May, 2010

Database:	EDM den0-adp01 Server Data	**Local Co-ordinate Reference:**	Well Pratt 29TD
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Project:	SEC.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-4-10)		

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 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 29TD

Well Position	**+N/-S**	-68.1 ft	**Northing:**	1,249,520.82 ft	**Latitude:**	40° 1' 2.391 N
	+E/-W	115.4 ft	**Easting:**	3,133,864.45 ft	**Longitude:**	105° 1' 19.384 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,179.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/4/2010	9.11	66.73	53,016

Design Plan #1 (5-4-10)

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	193.21

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,974.8	15.50	193.21	1,965.4	-101.4	-23.8	2.00	2.00	0.00	193.21	
4,537.2	15.50	193.21	4,434.6	-767.8	-180.3	0.00	0.00	0.00	0.00	
5,312.0	0.00	0.00	5,200.0	-869.2	-204.1	2.00	-2.00	0.00	180.00	DRILL TARGET BH
8,562.0	0.00	0.00	8,450.0	-869.2	-204.1	0.00	0.00	0.00	0.00	

Database:	EDM den0-adp01 Server Data	**Local Co-ordinate Reference:**	Well Pratt 29TD
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Project:	SEC.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-4-10)		

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
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	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
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	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
440.0	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	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
640.0	0.00	0.00	640.0	0.0	0.0	0.0	0.00	0.00	0.00
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.00	0.00	720.0	0.0	0.0	0.0	0.00	0.00	0.00
760.0	0.00	0.00	760.0	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
840.0	0.00	0.00	840.0	0.0	0.0	0.0	0.00	0.00	0.00
880.0	0.00	0.00	880.0	0.0	0.0	0.0	0.00	0.00	0.00
920.0	0.00	0.00	920.0	0.0	0.0	0.0	0.00	0.00	0.00
960.0	0.00	0.00	960.0	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
1,040.0	0.00	0.00	1,040.0	0.0	0.0	0.0	0.00	0.00	0.00
1,080.0	0.00	0.00	1,080.0	0.0	0.0	0.0	0.00	0.00	0.00
1,120.0	0.00	0.00	1,120.0	0.0	0.0	0.0	0.00	0.00	0.00
1,160.0	0.00	0.00	1,160.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,240.0	0.80	193.21	1,240.0	-0.3	-0.1	0.3	2.00	2.00	0.00
1,280.0	1.60	193.21	1,280.0	-1.1	-0.3	1.1	2.00	2.00	0.00
1,320.0	2.40	193.21	1,320.0	-2.4	-0.6	2.5	2.00	2.00	0.00
1,360.0	3.20	193.21	1,359.9	-4.3	-1.0	4.5	2.00	2.00	0.00
1,400.0	4.00	193.21	1,399.8	-6.8	-1.6	7.0	2.00	2.00	0.00
1,440.0	4.80	193.21	1,439.7	-9.8	-2.3	10.0	2.00	2.00	0.00
1,480.0	5.60	193.21	1,479.6	-13.3	-3.1	13.7	2.00	2.00	0.00
1,520.0	6.40	193.21	1,519.3	-17.4	-4.1	17.9	2.00	2.00	0.00
1,560.0	7.20	193.21	1,559.1	-22.0	-5.2	22.6	2.00	2.00	0.00
1,600.0	8.00	193.21	1,598.7	-27.1	-6.4	27.9	2.00	2.00	0.00
1,640.0	8.80	193.21	1,638.3	-32.8	-7.7	33.7	2.00	2.00	0.00
1,680.0	9.60	193.21	1,677.8	-39.1	-9.2	40.1	2.00	2.00	0.00
1,720.0	10.40	193.21	1,717.1	-45.8	-10.8	47.1	2.00	2.00	0.00
1,760.0	11.20	193.21	1,756.4	-53.1	-12.5	54.6	2.00	2.00	0.00
1,800.0	12.00	193.21	1,795.6	-60.9	-14.3	62.6	2.00	2.00	0.00
1,840.0	12.80	193.21	1,834.7	-69.3	-16.3	71.2	2.00	2.00	0.00
1,880.0	13.60	193.21	1,873.6	-78.2	-18.4	80.3	2.00	2.00	0.00
1,920.0	14.40	193.21	1,912.4	-87.6	-20.6	90.0	2.00	2.00	0.00
1,960.0	15.20	193.21	1,951.1	-97.6	-22.9	100.2	2.00	2.00	0.00
1,974.8	15.50	193.21	1,965.4	-101.4	-23.8	104.1	2.00	2.00	0.00
2,000.0	15.50	193.21	1,989.7	-107.9	-25.3	110.9	0.00	0.00	0.00
2,040.0	15.50	193.21	2,028.2	-118.3	-27.8	121.6	0.00	0.00	0.00
2,080.0	15.50	193.21	2,066.8	-128.7	-30.2	132.2	0.00	0.00	0.00

Database:	EDM den0-adp01 Server Data	**Local Co-ordinate Reference:**	Well Pratt 29TD
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Project:	SEC.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-4-10)		

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)
2,120.0	15.50	193.21	2,105.3	-139.1	-32.7	142.9	0.00	0.00	0.00
2,160.0	15.50	193.21	2,143.9	-149.5	-35.1	153.6	0.00	0.00	0.00
2,200.0	15.50	193.21	2,182.4	-160.0	-37.6	164.3	0.00	0.00	0.00
2,240.0	15.50	193.21	2,220.9	-170.4	-40.0	175.0	0.00	0.00	0.00
2,280.0	15.50	193.21	2,259.5	-180.8	-42.4	185.7	0.00	0.00	0.00
2,320.0	15.50	193.21	2,298.0	-191.2	-44.9	196.4	0.00	0.00	0.00
2,360.0	15.50	193.21	2,336.6	-201.6	-47.3	207.0	0.00	0.00	0.00
2,400.0	15.50	193.21	2,375.1	-212.0	-49.8	217.7	0.00	0.00	0.00
2,440.0	15.50	193.21	2,413.7	-222.4	-52.2	228.4	0.00	0.00	0.00
2,480.0	15.50	193.21	2,452.2	-232.8	-54.7	239.1	0.00	0.00	0.00
2,520.0	15.50	193.21	2,490.8	-243.2	-57.1	249.8	0.00	0.00	0.00
2,560.0	15.50	193.21	2,529.3	-253.6	-59.5	260.5	0.00	0.00	0.00
2,600.0	15.50	193.21	2,567.9	-264.0	-62.0	271.2	0.00	0.00	0.00
2,640.0	15.50	193.21	2,606.4	-274.4	-64.4	281.9	0.00	0.00	0.00
2,680.0	15.50	193.21	2,645.0	-284.8	-66.9	292.5	0.00	0.00	0.00
2,720.0	15.50	193.21	2,683.5	-295.2	-69.3	303.2	0.00	0.00	0.00
2,760.0	15.50	193.21	2,722.0	-305.6	-71.8	313.9	0.00	0.00	0.00
2,800.0	15.50	193.21	2,760.6	-316.0	-74.2	324.6	0.00	0.00	0.00
2,840.0	15.50	193.21	2,799.1	-326.4	-76.6	335.3	0.00	0.00	0.00
2,880.0	15.50	193.21	2,837.7	-336.8	-79.1	346.0	0.00	0.00	0.00
2,920.0	15.50	193.21	2,876.2	-347.2	-81.5	356.7	0.00	0.00	0.00
2,960.0	15.50	193.21	2,914.8	-357.6	-84.0	367.3	0.00	0.00	0.00
3,000.0	15.50	193.21	2,953.3	-368.0	-86.4	378.0	0.00	0.00	0.00
3,040.0	15.50	193.21	2,991.9	-378.4	-88.9	388.7	0.00	0.00	0.00
3,080.0	15.50	193.21	3,030.4	-388.8	-91.3	399.4	0.00	0.00	0.00
3,120.0	15.50	193.21	3,069.0	-399.2	-93.7	410.1	0.00	0.00	0.00
3,160.0	15.50	193.21	3,107.5	-409.6	-96.2	420.8	0.00	0.00	0.00
3,200.0	15.50	193.21	3,146.1	-420.0	-98.6	431.5	0.00	0.00	0.00
3,240.0	15.50	193.21	3,184.6	-430.4	-101.1	442.2	0.00	0.00	0.00
3,280.0	15.50	193.21	3,223.1	-440.8	-103.5	452.8	0.00	0.00	0.00
3,320.0	15.50	193.21	3,261.7	-451.3	-106.0	463.5	0.00	0.00	0.00
3,360.0	15.50	193.21	3,300.2	-461.7	-108.4	474.2	0.00	0.00	0.00
3,400.0	15.50	193.21	3,338.8	-472.1	-110.8	484.9	0.00	0.00	0.00
3,440.0	15.50	193.21	3,377.3	-482.5	-113.3	495.6	0.00	0.00	0.00
3,480.0	15.50	193.21	3,415.9	-492.9	-115.7	506.3	0.00	0.00	0.00
3,520.0	15.50	193.21	3,454.4	-503.3	-118.2	517.0	0.00	0.00	0.00
3,560.0	15.50	193.21	3,493.0	-513.7	-120.6	527.6	0.00	0.00	0.00
3,600.0	15.50	193.21	3,531.5	-524.1	-123.1	538.3	0.00	0.00	0.00
3,640.0	15.50	193.21	3,570.1	-534.5	-125.5	549.0	0.00	0.00	0.00
3,680.0	15.50	193.21	3,608.6	-544.9	-127.9	559.7	0.00	0.00	0.00
3,720.0	15.50	193.21	3,647.2	-555.3	-130.4	570.4	0.00	0.00	0.00
3,760.0	15.50	193.21	3,685.7	-565.7	-132.8	581.1	0.00	0.00	0.00
3,800.0	15.50	193.21	3,724.2	-576.1	-135.3	591.8	0.00	0.00	0.00
3,840.0	15.50	193.21	3,762.8	-586.5	-137.7	602.4	0.00	0.00	0.00
3,880.0	15.50	193.21	3,801.3	-596.9	-140.2	613.1	0.00	0.00	0.00
3,920.0	15.50	193.21	3,839.9	-607.3	-142.6	623.8	0.00	0.00	0.00
3,960.0	15.50	193.21	3,878.4	-617.7	-145.0	634.5	0.00	0.00	0.00
4,000.0	15.50	193.21	3,917.0	-628.1	-147.5	645.2	0.00	0.00	0.00
4,040.0	15.50	193.21	3,955.5	-638.5	-149.9	655.9	0.00	0.00	0.00
4,080.0	15.50	193.21	3,994.1	-648.9	-152.4	666.6	0.00	0.00	0.00
4,120.0	15.50	193.21	4,032.6	-659.3	-154.8	677.3	0.00	0.00	0.00
4,160.0	15.50	193.21	4,071.2	-669.7	-157.3	687.9	0.00	0.00	0.00
4,200.0	15.50	193.21	4,109.7	-680.1	-159.7	698.6	0.00	0.00	0.00
4,240.0	15.50	193.21	4,148.3	-690.5	-162.1	709.3	0.00	0.00	0.00

Database:	EDM den0-adp01 Server Data	**Local Co-ordinate Reference:**	Well Pratt 29TD
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
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Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-4-10)		

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)
4,280.0	15.50	193.21	4,186.8	-700.9	-164.6	720.0	0.00	0.00	0.00
4,320.0	15.50	193.21	4,225.3	-711.3	-167.0	730.7	0.00	0.00	0.00
4,360.0	15.50	193.21	4,263.9	-721.7	-169.5	741.4	0.00	0.00	0.00
4,400.0	15.50	193.21	4,302.4	-732.1	-171.9	752.1	0.00	0.00	0.00
4,440.0	15.50	193.21	4,341.0	-742.5	-174.4	762.7	0.00	0.00	0.00
4,480.0	15.50	193.21	4,379.5	-753.0	-176.8	773.4	0.00	0.00	0.00
4,520.0	15.50	193.21	4,418.1	-763.4	-179.2	784.1	0.00	0.00	0.00
4,537.2	15.50	193.21	4,434.6	-767.8	-180.3	788.7	0.00	0.00	0.00
4,560.0	15.04	193.21	4,456.6	-773.7	-181.7	794.7	2.00	-2.00	0.00
4,600.0	14.24	193.21	4,495.3	-783.5	-184.0	804.8	2.00	-2.00	0.00
4,640.0	13.44	193.21	4,534.2	-792.8	-186.2	814.4	2.00	-2.00	0.00
4,680.0	12.64	193.21	4,573.2	-801.6	-188.2	823.4	2.00	-2.00	0.00
4,720.0	11.84	193.21	4,612.2	-809.9	-190.2	831.9	2.00	-2.00	0.00
4,760.0	11.04	193.21	4,651.4	-817.6	-192.0	839.8	2.00	-2.00	0.00
4,800.0	10.24	193.21	4,690.8	-824.8	-193.7	847.2	2.00	-2.00	0.00
4,840.0	9.44	193.21	4,730.2	-831.4	-195.2	854.1	2.00	-2.00	0.00
4,880.0	8.64	193.21	4,769.7	-837.6	-196.7	860.3	2.00	-2.00	0.00
4,920.0	7.84	193.21	4,809.3	-843.1	-198.0	866.1	2.00	-2.00	0.00
4,960.0	7.04	193.21	4,848.9	-848.2	-199.2	871.2	2.00	-2.00	0.00
5,000.0	6.24	193.21	4,888.7	-852.7	-200.2	875.9	2.00	-2.00	0.00
5,040.0	5.44	193.21	4,928.4	-856.6	-201.2	879.9	2.00	-2.00	0.00
5,080.0	4.64	193.21	4,968.3	-860.1	-202.0	883.5	2.00	-2.00	0.00
5,114.1	3.96	193.21	5,002.3	-862.6	-202.5	886.0	2.00	-2.00	0.00
PERMIT TARGET BHL 50'FSL, 1311'FEL									
5,120.0	3.84	193.21	5,008.2	-862.9	-202.6	886.4	2.00	-2.00	0.00
5,160.0	3.04	193.21	5,048.1	-865.3	-203.2	888.8	2.00	-2.00	0.00
5,200.0	2.24	193.21	5,088.1	-867.1	-203.6	890.7	2.00	-2.00	0.00
5,240.0	1.44	193.21	5,128.0	-868.3	-203.9	891.9	2.00	-2.00	0.00
5,280.0	0.64	193.21	5,168.0	-869.0	-204.1	892.7	2.00	-2.00	0.00
5,312.0	0.00	0.00	5,200.0	-869.2	-204.1	892.8	2.00	-2.00	521.86
DRILL TARGET BHL 75'FSL, 1311'FEL									
5,320.0	0.00	0.00	5,208.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,360.0	0.00	0.00	5,248.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,288.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,440.0	0.00	0.00	5,328.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,480.0	0.00	0.00	5,368.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,520.0	0.00	0.00	5,408.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,560.0	0.00	0.00	5,448.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,488.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,640.0	0.00	0.00	5,528.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,680.0	0.00	0.00	5,568.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,720.0	0.00	0.00	5,608.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,760.0	0.00	0.00	5,648.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,688.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,840.0	0.00	0.00	5,728.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,880.0	0.00	0.00	5,768.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,920.0	0.00	0.00	5,808.0	-869.2	-204.1	892.8	0.00	0.00	0.00
5,960.0	0.00	0.00	5,848.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,888.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,040.0	0.00	0.00	5,928.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,080.0	0.00	0.00	5,968.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,120.0	0.00	0.00	6,008.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,160.0	0.00	0.00	6,048.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,088.0	-869.2	-204.1	892.8	0.00	0.00	0.00

Database:	EDM den0-adp01 Server Data	**Local Co-ordinate Reference:**	Well Pratt 29TD
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Project:	SEC.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-4-10)		

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	6,128.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,280.0	0.00	0.00	6,168.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,320.0	0.00	0.00	6,208.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,360.0	0.00	0.00	6,248.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,288.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,440.0	0.00	0.00	6,328.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,480.0	0.00	0.00	6,368.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,520.0	0.00	0.00	6,408.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,560.0	0.00	0.00	6,448.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,488.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,640.0	0.00	0.00	6,528.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,680.0	0.00	0.00	6,568.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,720.0	0.00	0.00	6,608.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,760.0	0.00	0.00	6,648.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,688.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,840.0	0.00	0.00	6,728.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,880.0	0.00	0.00	6,768.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,920.0	0.00	0.00	6,808.0	-869.2	-204.1	892.8	0.00	0.00	0.00
6,960.0	0.00	0.00	6,848.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,888.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,040.0	0.00	0.00	6,928.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,080.0	0.00	0.00	6,968.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,120.0	0.00	0.00	7,008.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,160.0	0.00	0.00	7,048.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,088.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,240.0	0.00	0.00	7,128.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,280.0	0.00	0.00	7,168.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,320.0	0.00	0.00	7,208.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,360.0	0.00	0.00	7,248.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,288.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,440.0	0.00	0.00	7,328.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,480.0	0.00	0.00	7,368.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,520.0	0.00	0.00	7,408.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,560.0	0.00	0.00	7,448.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,488.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,640.0	0.00	0.00	7,528.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,680.0	0.00	0.00	7,568.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,720.0	0.00	0.00	7,608.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,760.0	0.00	0.00	7,648.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,688.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,840.0	0.00	0.00	7,728.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,880.0	0.00	0.00	7,768.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,920.0	0.00	0.00	7,808.0	-869.2	-204.1	892.8	0.00	0.00	0.00
7,960.0	0.00	0.00	7,848.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,888.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,040.0	0.00	0.00	7,928.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,080.0	0.00	0.00	7,968.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,120.0	0.00	0.00	8,008.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,160.0	0.00	0.00	8,048.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,088.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,240.0	0.00	0.00	8,128.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,280.0	0.00	0.00	8,168.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,320.0	0.00	0.00	8,208.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,360.0	0.00	0.00	8,248.0	-869.2	-204.1	892.8	0.00	0.00	0.00

Database:	EDM den0-adp01 Server Data	**Local Co-ordinate Reference:**	Well Pratt 29TD
Company:	Synergy Resources	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Project:	SEC.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**North Reference:**	True
Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (5-4-10)		

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)
8,400.0	0.00	0.00	8,288.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,440.0	0.00	0.00	8,328.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,480.0	0.00	0.00	8,368.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,520.0	0.00	0.00	8,408.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,560.0	0.00	0.00	8,448.0	-869.2	-204.1	892.8	0.00	0.00	0.00
8,562.0	0.00	0.00	8,450.0	-869.2	-204.1	892.8	0.00	0.00	0.00
HARDLINE 75'S OF BHL									

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
PERMIT TARGET BH	0.00	0.00	5,000.0	-894.2	-204.1	1,248,625.54	3,133,665.14	40° 0' 53.554 N	105° 1' 22.007 W
- plan misses target center by 31.8ft at 5114.1ft MD (5002.3 TVD, -862.6 N, -202.5 E)									
- Point									
DRILL TARGET BHL	0.00	0.00	5,200.0	-869.2	-204.1	1,248,650.56	3,133,665.05	40° 0' 53.802 N	105° 1' 22.007 W
- plan hits target center									
- Point									
HARDLINE 75'S OF E	0.00	0.00	8,450.0	-944.2	-304.1	1,248,575.03	3,133,565.46	40° 0' 53.061 N	105° 1' 23.292 W
- plan misses target center by 125.0ft at 8562.0ft MD (8450.0 TVD, -869.2 N, -204.1 E)									
- Polygon									
Point 1			8,450.0	0.0	0.0	1,248,575.03	3,133,565.46		
Point 2			8,450.0	0.0	200.0	1,248,576.11	3,133,765.45		

ENSIGN Directional

Synergy Resources

SEC.29-T1N-R68W
Pratt 34-29D Pad Sec.29-T1N-R68W
Pratt 29TD

Wellbore #1
Plan #1 (5-4-10)

Anticollision Report

07 May, 2010

ENSIGN DIRECTIONAL

Anticollision Report

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 29TD
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Reference Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM den0-adp01 Server Data
Reference Design:	Plan #1 (5-4-10)	**Offset TVD Reference:**	Offset Datum

Reference Plan #1 (5-4-10)

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 2,000.0ft	**Error Surface:**	Elliptical Conic

Warning Levels Evaluated at: 2.00 **Sigma**

Survey Tool Program **Date** 5/7/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	8,562.0	Plan #1 (5-4-10) (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 34-29D Pad Sec.29-T1N-R68W						
Pratt 29XD - Wellbore #1 - Plan #1 (5-4-10)	338.7	338.7	19.9	18.6	15.657	CC, ES
Pratt 29XD - Wellbore #1 - Plan #1 (5-4-10)	500.0	499.6	23.0	21.0	11.409	SF
Pratt 44-29D - Wellbore #1 - Plan #1 (5-4-10)	966.0	968.0	19.9	15.8	4.862	CC
Pratt 44-29D - Wellbore #1 - Plan #1 (5-4-10)	1,000.0	1,002.0	19.9	15.7	4.687	ES
Pratt 44-29D - Wellbore #1 - Plan #1 (5-4-10)	1,100.0	1,101.3	21.7	17.0	4.645	SF

Offset Design Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29XD - Wellbore #1 - Plan #1 (5-4-10) **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	-59.60	10.2	-17.4	20.1				
100.0	100.0	100.0	100.0	0.1	0.1	-59.60	10.2	-17.4	20.1	19.9	0.20	102.959	
200.0	200.0	200.0	200.0	0.3	0.3	-59.60	10.2	-17.4	20.1	19.5	0.65	31.211	
300.0	300.0	300.1	300.1	0.5	0.5	-54.64	11.5	-16.2	19.9	18.8	1.09	18.232	
338.7	338.7	338.7	338.7	0.6	0.6	-50.00	12.8	-15.2	19.9	18.6	1.27	15.657	CC, ES
400.0	400.0	399.9	399.7	0.8	0.8	-39.68	15.5	-12.9	20.2	18.6	1.55	13.051	
500.0	500.0	499.6	499.0	1.0	1.0	-18.11	21.9	-7.2	23.0	21.0	2.02	11.409	SF
600.0	600.0	599.0	597.8	1.2	1.3	3.66	28.7	1.8	28.9	26.4	2.50	11.558	
700.0	700.0	697.6	695.3	1.4	1.6	21.57	35.8	14.1	38.7	35.8	2.98	12.993	
800.0	800.0	795.2	791.5	1.7	1.9	34.60	42.9	29.6	52.9	49.4	3.47	15.251	
900.0	900.0	891.6	885.8	1.9	2.3	43.77	50.2	48.1	71.0	67.0	3.95	17.950	
1,000.0	1,000.0	988.2	979.8	2.1	2.8	50.18	57.6	69.1	92.2	87.8	4.45	20.739	
1,100.0	1,100.0	1,085.5	1,074.4	2.3	3.2	54.25	65.1	90.5	114.4	109.5	4.94	23.157	
1,200.0	1,200.0	1,182.7	1,169.0	2.6	3.7	57.00	72.6	111.8	136.9	131.5	5.43	25.199	
1,300.0	1,300.0	1,279.8	1,263.4	2.8	4.1	-134.36	80.1	133.1	160.8	155.1	5.75	27.993	
1,400.0	1,399.8	1,376.2	1,357.2	2.9	4.6	-133.64	87.5	154.3	187.2	181.0	6.17	30.348	
1,500.0	1,499.5	1,472.0	1,450.3	3.1	5.1	-133.67	94.9	175.3	215.8	209.2	6.59	32.723	
1,600.0	1,598.7	1,567.0	1,542.7	3.3	5.5	-134.16	102.2	196.2	246.8	239.8	7.03	35.083	
1,700.0	1,697.5	1,661.1	1,634.2	3.6	6.0	-134.94	109.5	216.8	280.2	272.7	7.49	37.417	
1,800.0	1,795.6	1,754.2	1,724.8	3.9	6.5	-135.87	116.7	237.3	316.0	308.1	7.96	39.713	
1,900.0	1,893.1	1,846.1	1,814.2	4.2	6.9	-136.88	123.7	257.5	354.4	345.9	8.44	41.964	
2,000.0	1,989.7	1,936.9	1,902.4	4.6	7.4	-138.06	130.7	277.4	395.2	386.3	8.96	44.088	

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 29TD
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Reference Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM den0-adp01 Server Data
Reference Design:	Plan #1 (5-4-10)	**Offset TVD Reference:**	Offset Datum

Offset Design Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29XD - Wellbore #1 - Plan #1 (5-4-10)

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
2,100.0	2,086.0	2,027.2	1,990.3	5.0	7.8	-139.48	137.7	297.2	437.0	427.5	9.55	45.776	
2,200.0	2,182.4	2,117.6	2,078.2	5.4	8.2	-140.65	144.7	317.1	479.0	468.8	10.14	47.222	
2,300.0	2,278.8	2,208.0	2,166.1	5.9	8.7	-141.63	151.6	336.9	521.0	510.3	10.75	48.473	
2,400.0	2,375.1	2,298.4	2,254.0	6.4	9.1	-142.46	158.6	356.7	563.2	551.9	11.36	49.564	
2,500.0	2,471.5	2,388.8	2,341.9	6.9	9.6	-143.18	165.6	376.6	605.5	593.5	11.99	50.522	
2,600.0	2,567.9	2,479.1	2,429.8	7.4	10.0	-143.81	172.5	396.4	647.9	635.3	12.61	51.371	
2,700.0	2,664.2	2,569.5	2,517.7	7.9	10.5	-144.36	179.5	416.3	690.3	677.0	13.24	52.127	
2,800.0	2,760.6	2,659.9	2,605.6	8.4	10.9	-144.85	186.4	436.1	732.7	718.8	13.88	52.805	
2,900.0	2,857.0	2,750.3	2,693.5	8.9	11.4	-145.28	193.4	455.9	775.2	760.7	14.51	53.415	
3,000.0	2,953.3	2,840.6	2,781.4	9.4	11.8	-145.67	200.4	475.8	817.7	802.6	15.15	53.968	
3,100.0	3,049.7	2,931.0	2,869.3	9.9	12.3	-146.02	207.3	495.6	860.3	844.5	15.79	54.470	
3,200.0	3,146.1	3,021.4	2,957.2	10.5	12.7	-146.34	214.3	515.5	902.9	886.4	16.44	54.928	
3,300.0	3,242.4	3,111.8	3,045.1	11.0	13.2	-146.63	221.3	535.3	945.5	928.4	17.08	55.348	
3,400.0	3,338.8	3,202.1	3,133.0	11.5	13.6	-146.89	228.2	555.1	988.1	970.3	17.73	55.734	
3,500.0	3,435.2	3,292.5	3,220.9	12.1	14.1	-147.13	235.2	575.0	1,030.7	1,012.3	18.38	56.089	
3,600.0	3,531.5	3,382.9	3,308.8	12.6	14.5	-147.35	242.2	594.8	1,073.3	1,054.3	19.02	56.418	
3,700.0	3,627.9	3,473.3	3,396.7	13.2	15.0	-147.56	249.1	614.7	1,116.0	1,096.3	19.67	56.723	
3,800.0	3,724.2	3,563.6	3,484.6	13.7	15.4	-147.75	256.1	634.5	1,158.7	1,138.3	20.33	57.007	
3,900.0	3,820.6	3,654.0	3,572.5	14.2	15.9	-147.93	263.0	654.3	1,201.3	1,180.4	20.98	57.271	
4,000.0	3,917.0	3,744.4	3,660.4	14.8	16.3	-148.09	270.0	674.2	1,244.0	1,222.4	21.63	57.518	
4,100.0	4,013.3	3,834.8	3,748.3	15.3	16.8	-148.25	277.0	694.0	1,286.7	1,264.4	22.28	57.748	
4,200.0	4,109.7	3,925.1	3,836.2	15.9	17.2	-148.39	283.9	713.8	1,329.4	1,306.5	22.93	57.965	
4,300.0	4,206.1	4,015.5	3,924.1	16.4	17.7	-148.53	290.9	733.7	1,372.1	1,348.5	23.59	58.168	
4,400.0	4,302.4	4,105.9	4,011.9	17.0	18.1	-148.65	297.9	753.5	1,414.8	1,390.6	24.24	58.360	
4,500.0	4,398.8	4,196.3	4,099.8	17.5	18.6	-148.77	304.8	773.4	1,457.6	1,432.7	24.90	58.540	
4,600.0	4,495.3	4,286.9	4,188.0	18.0	19.0	-149.17	311.8	793.3	1,499.7	1,474.1	25.63	58.505	
4,700.0	4,592.7	4,378.7	4,277.3	18.4	19.5	-149.63	318.9	813.4	1,539.4	1,513.0	26.36	58.391	
4,800.0	4,690.8	4,471.7	4,367.7	18.7	20.0	-149.99	326.0	833.8	1,576.2	1,549.2	27.06	58.241	
4,900.0	4,789.5	4,565.6	4,459.1	19.0	20.4	-150.24	333.3	854.4	1,610.3	1,582.5	27.73	58.065	
5,000.0	4,888.7	4,660.5	4,551.4	19.2	20.9	-150.39	340.6	875.3	1,641.5	1,613.1	28.36	57.870	
5,100.0	4,988.2	4,756.2	4,644.4	19.4	21.4	-150.46	348.0	896.3	1,669.8	1,640.8	28.96	57.663	
5,200.0	5,088.1	4,852.6	4,738.2	19.6	21.9	-150.44	355.4	917.4	1,695.2	1,665.7	29.51	57.449	
5,300.0	5,188.0	4,949.6	4,832.5	19.7	22.4	-150.34	362.9	938.7	1,717.7	1,687.7	30.01	57.230	
5,400.0	5,288.0	5,160.1	5,038.8	19.8	23.1	43.49	376.6	977.9	1,735.3	1,704.6	30.66	56.589	
5,500.0	5,388.0	5,377.1	5,254.1	19.9	23.6	43.90	385.5	1,003.2	1,746.3	1,715.1	31.22	55.939	
5,600.0	5,488.0	5,596.9	5,473.6	20.1	24.0	44.05	388.9	1,013.0	1,750.6	1,718.9	31.69	55.236	
5,700.0	5,588.0	5,711.3	5,588.0	20.2	24.1	44.05	389.0	1,013.1	1,750.6	1,718.6	32.00	54.703	
5,800.0	5,688.0	5,811.3	5,688.0	20.3	24.2	44.05	389.0	1,013.1	1,750.6	1,718.3	32.31	54.189	
5,900.0	5,788.0	5,911.3	5,788.0	20.4	24.3	44.05	389.0	1,013.1	1,750.6	1,718.0	32.61	53.680	
6,000.0	5,888.0	6,011.3	5,888.0	20.5	24.4	44.05	389.0	1,013.1	1,750.6	1,717.7	32.92	53.174	
6,100.0	5,988.0	6,111.3	5,988.0	20.6	24.5	44.05	389.0	1,013.1	1,750.6	1,717.4	33.24	52.673	
6,200.0	6,088.0	6,211.3	6,088.0	20.8	24.6	44.05	389.0	1,013.1	1,750.6	1,717.1	33.55	52.176	
6,300.0	6,188.0	6,311.3	6,188.0	20.9	24.8	44.05	389.0	1,013.1	1,750.6	1,716.8	33.87	51.684	
6,400.0	6,288.0	6,411.3	6,288.0	21.0	24.9	44.05	389.0	1,013.1	1,750.6	1,716.4	34.19	51.197	
6,500.0	6,388.0	6,511.3	6,388.0	21.1	25.0	44.05	389.0	1,013.1	1,750.6	1,716.1	34.52	50.714	
6,600.0	6,488.0	6,611.3	6,488.0	21.2	25.1	44.05	389.0	1,013.1	1,750.6	1,715.8	34.85	50.237	
6,700.0	6,588.0	6,711.3	6,588.0	21.4	25.2	44.05	389.0	1,013.1	1,750.6	1,715.4	35.18	49.765	
6,800.0	6,688.0	6,811.3	6,688.0	21.5	25.4	44.05	389.0	1,013.1	1,750.6	1,715.1	35.51	49.298	
6,900.0	6,788.0	6,911.3	6,788.0	21.6	25.5	44.05	389.0	1,013.1	1,750.6	1,714.8	35.85	48.836	
7,000.0	6,888.0	7,011.3	6,888.0	21.8	25.6	44.05	389.0	1,013.1	1,750.6	1,714.4	36.19	48.379	
7,100.0	6,988.0	7,111.3	6,988.0	21.9	25.7	44.05	389.0	1,013.1	1,750.6	1,714.1	36.53	47.928	
7,200.0	7,088.0	7,211.3	7,088.0	22.0	25.9	44.05	389.0	1,013.1	1,750.6	1,713.8	36.87	47.482	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 29TD
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Reference Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM den0-adp01 Server Data
Reference Design:	Plan #1 (5-4-10)	**Offset TVD Reference:**	Offset Datum

Offset Design Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 29XD - Wellbore #1 - Plan #1 (5-4-10)

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
7,300.0	7,188.0	7,311.3	7,188.0	22.2	26.0	44.05	389.0	1,013.1	1,750.6	1,713.4	37.21	47.041	
7,400.0	7,288.0	7,411.3	7,288.0	22.3	26.1	44.05	389.0	1,013.1	1,750.6	1,713.1	37.56	46.606	
7,500.0	7,388.0	7,511.3	7,388.0	22.5	26.3	44.05	389.0	1,013.1	1,750.6	1,712.7	37.91	46.176	
7,600.0	7,488.0	7,611.3	7,488.0	22.6	26.4	44.05	389.0	1,013.1	1,750.6	1,712.4	38.26	45.752	
7,700.0	7,588.0	7,711.3	7,588.0	22.7	26.5	44.05	389.0	1,013.1	1,750.6	1,712.0	38.62	45.333	
7,800.0	7,688.0	7,811.3	7,688.0	22.9	26.7	44.05	389.0	1,013.1	1,750.6	1,711.7	38.97	44.919	
7,900.0	7,788.0	7,911.3	7,788.0	23.0	26.8	44.05	389.0	1,013.1	1,750.6	1,711.3	39.33	44.510	
8,000.0	7,888.0	8,011.3	7,888.0	23.2	27.0	44.05	389.0	1,013.1	1,750.6	1,710.9	39.69	44.107	
8,100.0	7,988.0	8,111.3	7,988.0	23.3	27.1	44.05	389.0	1,013.1	1,750.6	1,710.6	40.05	43.709	
8,200.0	8,088.0	8,211.3	8,088.0	23.5	27.2	44.05	389.0	1,013.1	1,750.6	1,710.2	40.42	43.316	
8,300.0	8,188.0	8,311.3	8,188.0	23.6	27.4	44.05	389.0	1,013.1	1,750.6	1,709.8	40.78	42.929	
8,400.0	8,288.0	8,411.3	8,288.0	23.8	27.5	44.05	389.0	1,013.1	1,750.6	1,709.5	41.15	42.546	
8,500.0	8,388.0	8,511.3	8,388.0	23.9	27.7	44.05	389.0	1,013.1	1,750.6	1,709.1	41.50	42.179	
8,562.0	8,450.0	8,573.3	8,450.0	24.0	27.7	44.05	389.0	1,013.1	1,750.6	1,709.0	41.68	42.005	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 29TD
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Reference Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM den0-adp01 Server Data
Reference Design:	Plan #1 (5-4-10)	**Offset TVD Reference:**	Offset Datum

Offset Design Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 44-29D - Wellbore #1 - Plan #1 (5-4-10)

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	2.0	2.0	0.0	0.0	120.84	-10.2	17.1	19.9				
100.0	100.0	102.0	102.0	0.1	0.1	120.84	-10.2	17.1	19.9	19.7	0.20	99.473	
200.0	200.0	202.0	202.0	0.3	0.3	120.84	-10.2	17.1	19.9	19.2	0.65	30.634	
300.0	300.0	302.0	302.0	0.5	0.6	120.84	-10.2	17.1	19.9	18.8	1.10	18.105	
400.0	400.0	402.0	402.0	0.8	0.8	120.84	-10.2	17.1	19.9	18.4	1.55	12.849	
500.0	500.0	502.0	502.0	1.0	1.0	120.84	-10.2	17.1	19.9	17.9	2.00	9.958	
600.0	600.0	602.0	602.0	1.2	1.2	120.84	-10.2	17.1	19.9	17.5	2.45	8.130	
700.0	700.0	702.0	702.0	1.4	1.5	120.84	-10.2	17.1	19.9	17.0	2.90	6.868	
800.0	800.0	802.0	802.0	1.7	1.7	120.84	-10.2	17.1	19.9	16.6	3.35	5.946	
900.0	900.0	902.0	902.0	1.9	1.9	120.84	-10.2	17.1	19.9	16.1	3.80	5.242	
966.0	966.0	968.0	968.0	2.0	2.0	120.84	-10.2	17.1	19.9	15.8	4.09	4.862	CC
1,000.0	1,000.0	1,002.0	1,002.0	2.1	2.1	120.84	-10.2	17.1	19.9	15.7	4.25	4.687	ES
1,100.0	1,100.0	1,101.3	1,101.2	2.3	2.3	121.21	-11.2	18.5	21.7	17.0	4.67	4.645	SF
1,200.0	1,200.0	1,200.0	1,199.8	2.6	2.5	122.01	-14.2	22.8	26.9	21.9	5.08	5.302	
1,300.0	1,300.0	1,298.9	1,298.3	2.8	2.7	-72.91	-19.2	29.8	35.1	29.6	5.47	6.413	
1,400.0	1,399.8	1,396.9	1,395.6	2.9	2.9	-77.55	-26.1	39.5	45.8	40.0	5.85	7.834	
1,500.0	1,499.5	1,494.1	1,491.6	3.1	3.2	-82.83	-34.8	51.7	59.5	53.2	6.24	9.528	
1,600.0	1,598.7	1,591.1	1,586.9	3.3	3.5	-87.81	-45.2	66.5	76.3	69.6	6.68	11.425	
1,700.0	1,697.5	1,689.1	1,683.1	3.6	3.8	-92.84	-56.2	81.9	94.3	87.2	7.16	13.171	
1,800.0	1,795.6	1,786.8	1,779.0	3.9	4.2	-97.86	-67.1	97.3	113.4	105.7	7.71	14.710	
1,900.0	1,893.1	1,884.1	1,874.4	4.2	4.5	-102.76	-78.0	112.7	133.8	125.5	8.31	16.096	
2,000.0	1,989.7	1,980.7	1,969.2	4.6	4.9	-107.52	-88.8	127.9	156.1	147.1	8.98	17.374	
2,100.0	2,086.0	2,077.2	2,063.9	5.0	5.3	-111.62	-99.6	143.1	179.5	169.8	9.69	18.523	
2,200.0	2,182.4	2,173.7	2,158.6	5.4	5.6	-114.77	-110.4	158.3	203.7	193.3	10.43	19.539	
2,300.0	2,278.8	2,270.2	2,253.3	5.9	6.0	-117.25	-121.2	173.5	228.3	217.1	11.17	20.433	
2,400.0	2,375.1	2,366.7	2,347.9	6.4	6.4	-119.25	-132.0	188.7	253.3	241.3	11.93	21.221	
2,500.0	2,471.5	2,463.2	2,442.6	6.9	6.8	-120.90	-142.7	203.9	278.4	265.7	12.71	21.916	
2,600.0	2,567.9	2,559.7	2,537.3	7.4	7.2	-122.27	-153.5	219.2	303.8	290.3	13.48	22.532	
2,700.0	2,664.2	2,656.2	2,632.0	7.9	7.6	-123.43	-164.3	234.4	329.3	315.0	14.27	23.080	
2,800.0	2,760.6	2,752.7	2,726.6	8.4	8.0	-124.42	-175.1	249.6	354.9	339.9	15.06	23.569	
2,900.0	2,857.0	2,849.2	2,821.3	8.9	8.4	-125.28	-185.9	264.8	380.6	364.8	15.85	24.009	
3,000.0	2,953.3	2,945.7	2,916.0	9.4	8.8	-126.03	-196.7	280.0	406.4	389.7	16.65	24.405	
3,100.0	3,049.7	3,042.2	3,010.7	9.9	9.2	-126.69	-207.5	295.2	432.2	414.8	17.45	24.763	
3,200.0	3,146.1	3,138.7	3,105.3	10.5	9.6	-127.28	-218.3	310.4	458.1	439.8	18.26	25.089	
3,300.0	3,242.4	3,235.1	3,200.0	11.0	10.1	-127.80	-229.0	325.6	484.0	464.9	19.07	25.386	
3,400.0	3,338.8	3,331.6	3,294.7	11.5	10.5	-128.27	-239.8	340.8	510.0	490.1	19.88	25.658	
3,500.0	3,435.2	3,428.1	3,389.4	12.1	10.9	-128.70	-250.6	356.0	535.9	515.3	20.69	25.907	
3,600.0	3,531.5	3,524.6	3,484.0	12.6	11.3	-129.08	-261.4	371.2	561.9	540.4	21.50	26.137	
3,700.0	3,627.9	3,621.1	3,578.7	13.2	11.7	-129.44	-272.2	386.5	588.0	565.7	22.31	26.349	
3,800.0	3,724.2	3,717.6	3,673.4	13.7	12.1	-129.76	-283.0	401.7	614.0	590.9	23.13	26.545	
3,900.0	3,820.6	3,814.1	3,768.1	14.2	12.5	-130.06	-293.8	416.9	640.1	616.1	23.95	26.728	
4,000.0	3,917.0	3,910.6	3,862.7	14.8	13.0	-130.33	-304.6	432.1	666.1	641.4	24.77	26.897	
4,100.0	4,013.3	4,007.1	3,957.4	15.3	13.4	-130.58	-315.3	447.3	692.2	666.6	25.59	27.056	
4,200.0	4,109.7	4,103.6	4,052.1	15.9	13.8	-130.81	-326.1	462.5	718.3	691.9	26.41	27.204	
4,300.0	4,206.1	4,200.1	4,146.8	16.4	14.2	-131.03	-336.9	477.7	744.4	717.2	27.23	27.342	
4,400.0	4,302.4	4,296.6	4,241.4	17.0	14.6	-131.24	-347.7	492.9	770.6	742.5	28.05	27.472	
4,500.0	4,398.8	4,393.1	4,336.1	17.5	15.0	-131.42	-358.5	508.1	796.7	767.8	28.87	27.594	
4,600.0	4,495.3	4,489.7	4,430.9	18.0	15.5	-131.81	-369.3	523.4	822.4	792.7	29.70	27.693	
4,700.0	4,592.7	4,598.3	4,537.8	18.4	15.9	-132.22	-380.6	539.3	845.4	815.0	30.43	27.778	
4,800.0	4,690.8	4,710.4	4,648.7	18.7	16.2	-132.62	-389.8	552.2	864.6	833.6	31.04	27.852	
4,900.0	4,789.5	4,823.4	4,761.1	19.0	16.4	-133.03	-396.5	561.7	879.9	848.3	31.57	27.868	
5,000.0	4,888.7	4,937.2	4,874.7	19.2	16.6	-133.44	-400.7	567.6	891.2	859.1	32.02	27.831	

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 29TD
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Reference Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM den0-adp01 Server Data
Reference Design:	Plan #1 (5-4-10)	**Offset TVD Reference:**	Offset Datum

Offset Design Pratt 34-29D Pad Sec.29-T1N-R68W - Pratt 44-29D - Wellbore #1 - Plan #1 (5-4-10)

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
5,100.0	4,988.2	5,051.4	4,988.8	19.4	16.8	-133.87	-402.3	569.9	898.4	866.1	32.39	27.739	
5,200.0	5,088.1	5,152.6	5,090.1	19.6	16.9	-134.19	-402.3	569.9	902.4	869.7	32.69	27.607	
5,300.0	5,188.0	5,252.6	5,190.0	19.7	17.1	-134.31	-402.3	569.9	903.9	870.9	32.95	27.432	
5,400.0	5,288.0	5,352.6	5,290.0	19.8	17.2	58.90	-402.3	569.9	903.9	870.7	33.22	27.210	
5,500.0	5,388.0	5,452.6	5,390.0	19.9	17.3	58.90	-402.3	569.9	903.9	870.4	33.49	26.994	
5,600.0	5,488.0	5,552.6	5,490.0	20.1	17.5	58.90	-402.3	569.9	903.9	870.2	33.76	26.778	
5,700.0	5,588.0	5,652.6	5,590.0	20.2	17.6	58.90	-402.3	569.9	903.9	869.9	34.03	26.562	
5,800.0	5,688.0	5,752.6	5,690.0	20.3	17.7	58.90	-402.3	569.9	903.9	869.6	34.31	26.347	
5,900.0	5,788.0	5,852.6	5,790.0	20.4	17.9	58.90	-402.3	569.9	903.9	869.3	34.59	26.133	
6,000.0	5,888.0	5,952.6	5,890.0	20.5	18.0	58.90	-402.3	569.9	903.9	869.0	34.87	25.920	
6,100.0	5,988.0	6,052.6	5,990.0	20.6	18.2	58.90	-402.3	569.9	903.9	868.7	35.16	25.708	
6,200.0	6,088.0	6,152.6	6,090.0	20.8	18.3	58.90	-402.3	569.9	903.9	868.5	35.45	25.496	
6,300.0	6,188.0	6,252.6	6,190.0	20.9	18.5	58.90	-402.3	569.9	903.9	868.2	35.75	25.286	
6,400.0	6,288.0	6,352.6	6,290.0	21.0	18.6	58.90	-402.3	569.9	903.9	867.9	36.04	25.077	
6,500.0	6,388.0	6,452.6	6,390.0	21.1	18.8	58.90	-402.3	569.9	903.9	867.6	36.35	24.870	
6,600.0	6,488.0	6,552.6	6,490.0	21.2	18.9	58.90	-402.3	569.9	903.9	867.3	36.65	24.663	
6,700.0	6,588.0	6,652.6	6,590.0	21.4	19.1	58.90	-402.3	569.9	903.9	867.0	36.96	24.458	
6,800.0	6,688.0	6,752.6	6,690.0	21.5	19.2	58.90	-402.3	569.9	903.9	866.6	37.27	24.255	
6,900.0	6,788.0	6,852.6	6,790.0	21.6	19.4	58.90	-402.3	569.9	903.9	866.3	37.58	24.053	
7,000.0	6,888.0	6,952.6	6,890.0	21.8	19.5	58.90	-402.3	569.9	903.9	866.0	37.90	23.853	
7,100.0	6,988.0	7,052.6	6,990.0	21.9	19.7	58.90	-402.3	569.9	903.9	865.7	38.21	23.654	
7,200.0	7,088.0	7,152.6	7,090.0	22.0	19.9	58.90	-402.3	569.9	903.9	865.4	38.53	23.457	
7,300.0	7,188.0	7,252.6	7,190.0	22.2	20.0	58.90	-402.3	569.9	903.9	865.1	38.86	23.262	
7,400.0	7,288.0	7,352.6	7,290.0	22.3	20.2	58.90	-402.3	569.9	903.9	864.7	39.18	23.069	
7,500.0	7,388.0	7,452.6	7,390.0	22.5	20.4	58.90	-402.3	569.9	903.9	864.4	39.51	22.877	
7,600.0	7,488.0	7,552.6	7,490.0	22.6	20.5	58.90	-402.3	569.9	903.9	864.1	39.84	22.687	
7,700.0	7,588.0	7,652.6	7,590.0	22.7	20.7	58.90	-402.3	569.9	903.9	863.7	40.17	22.499	
7,800.0	7,688.0	7,752.6	7,690.0	22.9	20.9	58.90	-402.3	569.9	903.9	863.4	40.51	22.313	
7,900.0	7,788.0	7,852.6	7,790.0	23.0	21.0	58.90	-402.3	569.9	903.9	863.1	40.85	22.129	
8,000.0	7,888.0	7,952.6	7,890.0	23.2	21.2	58.90	-402.3	569.9	903.9	862.7	41.19	21.947	
8,100.0	7,988.0	8,052.6	7,990.0	23.3	21.4	58.90	-402.3	569.9	903.9	862.4	41.53	21.766	
8,200.0	8,088.0	8,152.6	8,090.0	23.5	21.5	58.90	-402.3	569.9	903.9	862.0	41.87	21.587	
8,300.0	8,188.0	8,252.6	8,190.0	23.6	21.7	58.90	-402.3	569.9	903.9	861.7	42.22	21.411	
8,400.0	8,288.0	8,352.6	8,290.0	23.8	21.9	58.90	-402.3	569.9	903.9	861.3	42.57	21.236	
8,500.0	8,388.0	8,452.6	8,390.0	23.9	22.1	58.90	-402.3	569.9	903.9	861.0	42.91	21.063	
8,562.0	8,450.0	8,514.6	8,452.0	24.0	22.2	58.90	-402.3	569.9	903.9	860.8	43.13	20.957	

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 29TD
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Reference Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM den0-adp01 Server Data
Reference Design:	Plan #1 (5-4-10)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5192.0ft (Original Well Elev) Coordinates are relative to: Pratt 29TD
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: 0.31°

Company:	Synergy Resources	**Local Co-ordinate Reference:**	Well Pratt 29TD
Project:	SEC.29-T1N-R68W	**TVD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Reference Site:	Pratt 34-29D Pad Sec.29-T1N-R68W	**MD Reference:**	WELL @ 5192.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Pratt 29TD	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM den0-adp01 Server Data
Reference Design:	Plan #1 (5-4-10)	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to WELL @ 5192.0ft (Original Well Elev) Coordinates are relative to: Pratt 29TD
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: 0.31°