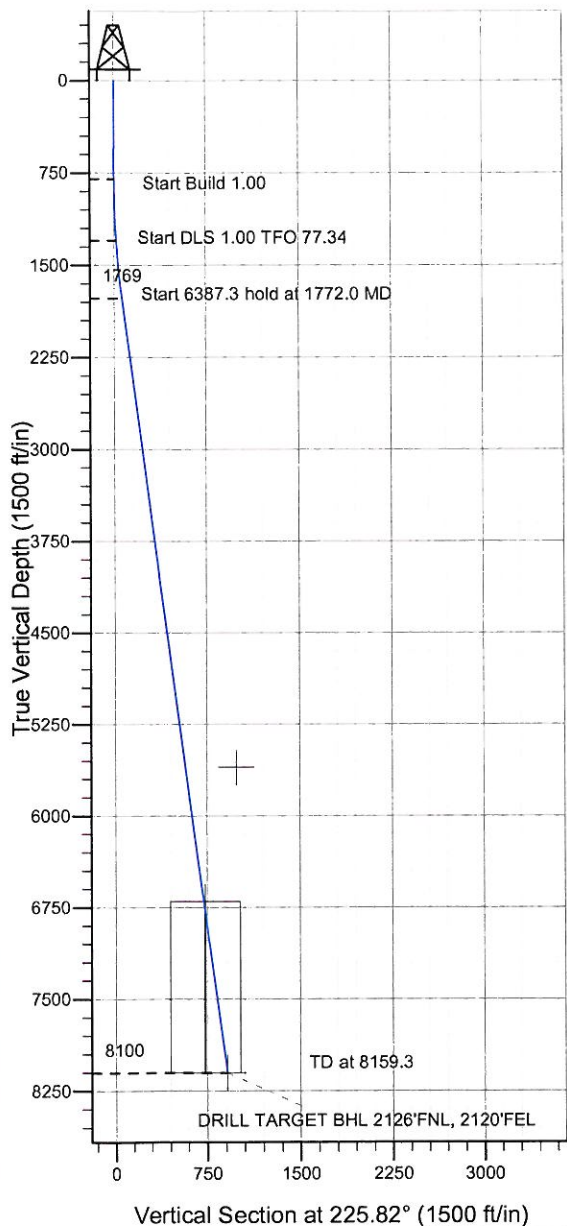


Well Name: SRC Avex 32-10D

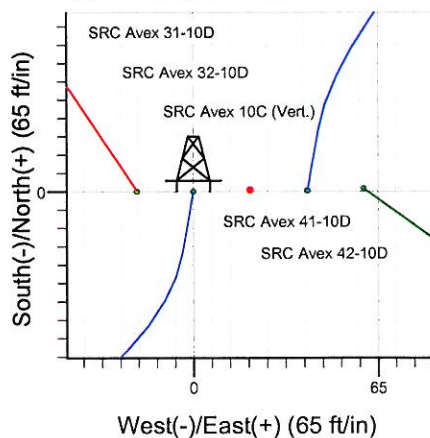
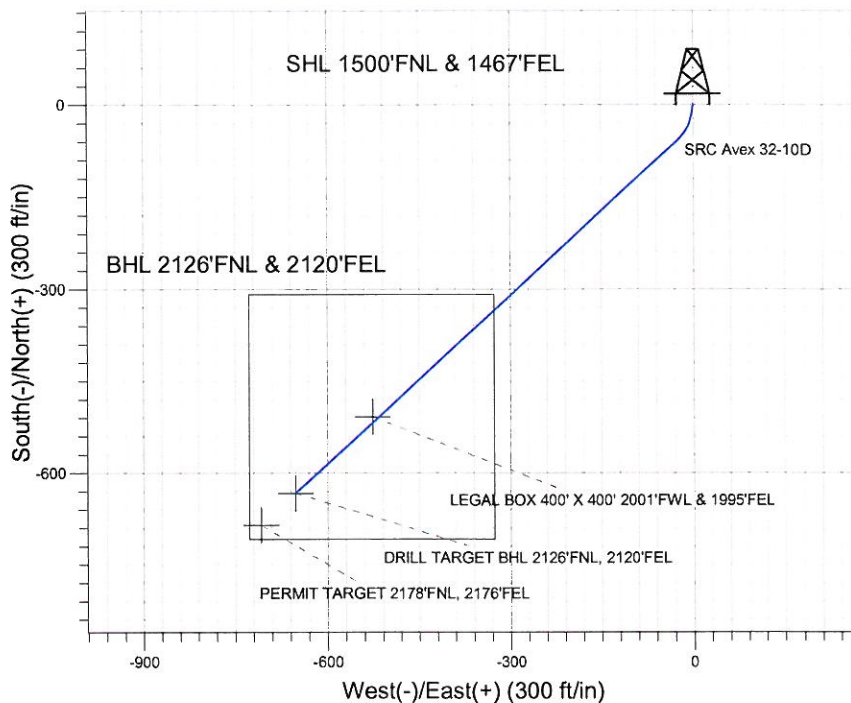
Surface Location: SRC Avex 42-10D Pad Sec.10-T4N-R68W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 5038.0

S +E/-W	Northing	Easting	Latitude	Longitude
0.0	1363965.53	3143566.42	40.331342	-104.985039

Original Well Elev WELL @ 5051.0ft (Original Well Elev)



Synergy Resources



SRC Avex 42-10D Pad Sec.10-T4N-R68W
SRC Avex 32-10D
Plan #1 (7-12-11)
9:56, July 26 2011



Azimuths to True North
Magnetic North: 8.96°

Magnetic Field
Strength: 53057.8snT
Dip Angle: 66.95°
Date: 7/26/2011
Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PERMIT TARGET 2178'FNL, 2176'FEL	5600.0	-685.2	-707.6	40.329461	-104.987577	Point
LEGAL BOX 400' X 400' 2001'FWL & 1995'FEL	6700.0	-508.2	-526.6	40.329947	-104.986928	Rectangle (Sides: L400.0 W400.0)
DRILL TARGET BHL 2126'FNL, 2120'FEL	8100.0	-633.2	-651.6	40.329604	-104.987376	Point

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	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1300.0	5.00	190.00	1299.4	-21.5	-3.8	1.00	190.00	17.7	
4	1772.0	7.59	227.45	1768.7	-62.8	-30.3	1.00	77.34	65.5	
5	8159.3	7.59	227.45	8100.0	-633.2	-651.6	0.00	0.00	908.6	DRILL TARGET BHL 2126'FNL, 2120'FEL



Directional

Synergy Resources

SEC.10-T4N-R68W

SRC Avex 42-10D Pad Sec.10-T4N-R68W

SRC Avex 32-10D

Wellbore #1

Plan: Plan #1 (7-12-11)

Standard Planning Report

26 July, 2011

Database: Landmark
Company: Synergy Resources
Project: SEC.10-T4N-R68W
Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Well: SRC Avex 32-10D
Wellbore: Wellbore #1
Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project SEC.10-T4N-R68W, Weld County, Colorado

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: Colorado Northern Zone

System Datum: Mean Sea Level
 Using Well Reference Point
 Using geodetic scale factor

Site SRC Avex 42-10D Pad Sec.10-T4N-R68W

Site Position: Northing: 1,363,966.99 ft Latitude: 40.331345
From: Lat/Long Easting: 3,143,626.35 ft Longitude: -104.984824
Position Uncertainty: 0.0 ft Slot Radius: " Grid Convergence: 0.33 °

Well SRC Avex 32-10D

Well Position +N/-S -1.1 ft Northing: 1,363,965.53 ft Latitude: 40.331342
 +E/-W -59.9 ft Easting: 3,143,566.42 ft Longitude: -104.985039
Position Uncertainty 0.0 ft Wellhead Elevation: ft Ground Level: 5,038.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/26/2011	8.96	66.95	53,058

Design Plan #1 (7-12-11)

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	225.82

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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	5.00	190.00	1,299.4	-21.5	-3.8	1.00	1.00	0.00	190.00	
1,772.0	7.59	227.45	1,768.7	-62.8	-30.3	1.00	0.55	7.93	77.34	
8,159.3	7.59	227.45	8,100.0	-633.2	-651.6	0.00	0.00	0.00	0.00	DRILL TARGET BF

Database: Landmark
Company: Synergy Resources
Project: SEC.10-T4N-R68W
Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Well: SRC Avex 32-10D
Wellbore: Wellbore #1
Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
550.0	0.00	0.00	550.0	0.0	0.0	0.0	0.00	0.00	0.00
8 5/8"									
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	0.40	190.00	840.0	-0.1	0.0	0.1	1.00	1.00	0.00
880.0	0.80	190.00	880.0	-0.6	-0.1	0.5	1.00	1.00	0.00
920.0	1.20	190.00	920.0	-1.2	-0.2	1.0	1.00	1.00	0.00
960.0	1.60	190.00	960.0	-2.2	-0.4	1.8	1.00	1.00	0.00
1,000.0	2.00	190.00	1,000.0	-3.4	-0.6	2.8	1.00	1.00	0.00
1,040.0	2.40	190.00	1,039.9	-4.9	-0.9	4.1	1.00	1.00	0.00
1,080.0	2.80	190.00	1,079.9	-6.7	-1.2	5.5	1.00	1.00	0.00
1,120.0	3.20	190.00	1,119.8	-8.8	-1.6	7.2	1.00	1.00	0.00
1,160.0	3.60	190.00	1,159.8	-11.1	-2.0	9.2	1.00	1.00	0.00
1,200.0	4.00	190.00	1,199.7	-13.7	-2.4	11.3	1.00	1.00	0.00
1,240.0	4.40	190.00	1,239.6	-16.6	-2.9	13.7	1.00	1.00	0.00
1,280.0	4.80	190.00	1,279.4	-19.8	-3.5	16.3	1.00	1.00	0.00
1,300.0	5.00	190.00	1,299.4	-21.5	-3.8	17.7	1.00	1.00	0.00
1,320.0	5.05	192.22	1,319.3	-23.2	-4.1	19.1	1.00	0.24	11.09
1,360.0	5.16	196.52	1,359.1	-26.6	-5.0	22.2	1.00	0.29	10.75
1,400.0	5.31	200.60	1,399.0	-30.1	-6.2	25.4	1.00	0.36	10.22
1,440.0	5.48	204.46	1,438.8	-33.6	-7.6	28.9	1.00	0.43	9.63
1,480.0	5.67	208.06	1,478.6	-37.0	-9.3	32.5	1.00	0.48	9.02
1,520.0	5.89	211.42	1,518.4	-40.5	-11.3	36.4	1.00	0.53	8.39
1,560.0	6.12	214.53	1,558.2	-44.0	-13.6	40.5	1.00	0.58	7.78
1,600.0	6.37	217.41	1,597.9	-47.6	-16.2	44.7	1.00	0.62	7.19
1,640.0	6.63	220.07	1,637.7	-51.1	-19.0	49.2	1.00	0.66	6.64
1,680.0	6.91	222.52	1,677.4	-54.6	-22.1	53.9	1.00	0.69	6.12
1,720.0	7.20	224.77	1,717.1	-58.2	-25.5	58.8	1.00	0.72	5.64
1,760.0	7.50	226.85	1,756.8	-61.8	-29.2	64.0	1.00	0.75	5.20
1,772.0	7.59	227.45	1,768.7	-62.8	-30.3	65.5	1.00	0.76	4.94
1,800.0	7.59	227.45	1,796.4	-65.3	-33.1	69.2	0.00	0.00	0.00
1,840.0	7.59	227.45	1,836.1	-68.9	-36.9	74.5	0.00	0.00	0.00
1,880.0	7.59	227.45	1,875.7	-72.5	-40.8	79.8	0.00	0.00	0.00
1,920.0	7.59	227.45	1,915.4	-76.0	-44.7	85.1	0.00	0.00	0.00
1,960.0	7.59	227.45	1,955.0	-79.6	-48.6	90.3	0.00	0.00	0.00

Database: Landmark
Company: Synergy Resources
Project: SEC.10-T4N-R68W
Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Well: SRC Avex 32-10D
Wellbore: Wellbore #1
Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
2,000.0	7.59	227.45	1,994.7	-83.2	-52.5	95.6	0.00	0.00	0.00
2,040.0	7.59	227.45	2,034.3	-86.8	-56.4	100.9	0.00	0.00	0.00
2,080.0	7.59	227.45	2,074.0	-90.3	-60.3	106.2	0.00	0.00	0.00
2,120.0	7.59	227.45	2,113.6	-93.9	-64.2	111.5	0.00	0.00	0.00
2,160.0	7.59	227.45	2,153.3	-97.5	-68.1	116.7	0.00	0.00	0.00
2,200.0	7.59	227.45	2,192.9	-101.0	-72.0	122.0	0.00	0.00	0.00
2,240.0	7.59	227.45	2,232.6	-104.6	-75.8	127.3	0.00	0.00	0.00
2,280.0	7.59	227.45	2,272.2	-108.2	-79.7	132.6	0.00	0.00	0.00
2,320.0	7.59	227.45	2,311.9	-111.8	-83.6	137.9	0.00	0.00	0.00
2,360.0	7.59	227.45	2,351.5	-115.3	-87.5	143.1	0.00	0.00	0.00
2,400.0	7.59	227.45	2,391.2	-118.9	-91.4	148.4	0.00	0.00	0.00
2,440.0	7.59	227.45	2,430.8	-122.5	-95.3	153.7	0.00	0.00	0.00
2,480.0	7.59	227.45	2,470.5	-126.0	-99.2	159.0	0.00	0.00	0.00
2,520.0	7.59	227.45	2,510.1	-129.6	-103.1	164.3	0.00	0.00	0.00
2,560.0	7.59	227.45	2,549.8	-133.2	-107.0	169.5	0.00	0.00	0.00
2,600.0	7.59	227.45	2,589.4	-136.8	-110.9	174.8	0.00	0.00	0.00
2,640.0	7.59	227.45	2,629.1	-140.3	-114.8	180.1	0.00	0.00	0.00
2,680.0	7.59	227.45	2,668.7	-143.9	-118.6	185.4	0.00	0.00	0.00
2,720.0	7.59	227.45	2,708.4	-147.5	-122.5	190.7	0.00	0.00	0.00
2,760.0	7.59	227.45	2,748.0	-151.1	-126.4	195.9	0.00	0.00	0.00
2,800.0	7.59	227.45	2,787.7	-154.6	-130.3	201.2	0.00	0.00	0.00
2,840.0	7.59	227.45	2,827.3	-158.2	-134.2	206.5	0.00	0.00	0.00
2,880.0	7.59	227.45	2,867.0	-161.8	-138.1	211.8	0.00	0.00	0.00
2,920.0	7.59	227.45	2,906.6	-165.3	-142.0	217.1	0.00	0.00	0.00
2,960.0	7.59	227.45	2,946.3	-168.9	-145.9	222.3	0.00	0.00	0.00
3,000.0	7.59	227.45	2,985.9	-172.5	-149.8	227.6	0.00	0.00	0.00
3,040.0	7.59	227.45	3,025.6	-176.1	-153.7	232.9	0.00	0.00	0.00
3,080.0	7.59	227.45	3,065.2	-179.6	-157.6	238.2	0.00	0.00	0.00
3,120.0	7.59	227.45	3,104.9	-183.2	-161.4	243.5	0.00	0.00	0.00
3,160.0	7.59	227.45	3,144.5	-186.8	-165.3	248.7	0.00	0.00	0.00
3,200.0	7.59	227.45	3,184.2	-190.3	-169.2	254.0	0.00	0.00	0.00
3,240.0	7.59	227.45	3,223.8	-193.9	-173.1	259.3	0.00	0.00	0.00
3,280.0	7.59	227.45	3,263.5	-197.5	-177.0	264.6	0.00	0.00	0.00
3,320.0	7.59	227.45	3,303.1	-201.1	-180.9	269.9	0.00	0.00	0.00
3,360.0	7.59	227.45	3,342.8	-204.6	-184.8	275.1	0.00	0.00	0.00
3,400.0	7.59	227.45	3,382.4	-208.2	-188.7	280.4	0.00	0.00	0.00
3,440.0	7.59	227.45	3,422.1	-211.8	-192.6	285.7	0.00	0.00	0.00
3,480.0	7.59	227.45	3,461.7	-215.3	-196.5	291.0	0.00	0.00	0.00
3,520.0	7.59	227.45	3,501.4	-218.9	-200.4	296.3	0.00	0.00	0.00
3,560.0	7.59	227.45	3,541.0	-222.5	-204.2	301.5	0.00	0.00	0.00
3,600.0	7.59	227.45	3,580.7	-226.1	-208.1	306.8	0.00	0.00	0.00
3,640.0	7.59	227.45	3,620.3	-229.6	-212.0	312.1	0.00	0.00	0.00
3,680.0	7.59	227.45	3,660.0	-233.2	-215.9	317.4	0.00	0.00	0.00
3,720.0	7.59	227.45	3,699.6	-236.8	-219.8	322.6	0.00	0.00	0.00
3,760.0	7.59	227.45	3,739.3	-240.4	-223.7	327.9	0.00	0.00	0.00
3,800.0	7.59	227.45	3,778.9	-243.9	-227.6	333.2	0.00	0.00	0.00
3,840.0	7.59	227.45	3,818.6	-247.5	-231.5	338.5	0.00	0.00	0.00
3,880.0	7.59	227.45	3,858.2	-251.1	-235.4	343.8	0.00	0.00	0.00
3,920.0	7.59	227.45	3,897.9	-254.6	-239.3	349.0	0.00	0.00	0.00
3,960.0	7.59	227.45	3,937.5	-258.2	-243.1	354.3	0.00	0.00	0.00
4,000.0	7.59	227.45	3,977.2	-261.8	-247.0	359.6	0.00	0.00	0.00
4,040.0	7.59	227.45	4,016.8	-265.4	-250.9	364.9	0.00	0.00	0.00
4,080.0	7.59	227.45	4,056.5	-268.9	-254.8	370.2	0.00	0.00	0.00
4,120.0	7.59	227.45	4,096.1	-272.5	-258.7	375.4	0.00	0.00	0.00

Database: Landmark
Company: Synergy Resources
Project: SEC.10-T4N-R68W
Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Well: SRC Avex 32-10D
Wellbore: Wellbore #1
Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
4,160.0	7.59	227.45	4,135.8	-276.1	-262.6	380.7	0.00	0.00	0.00
4,200.0	7.59	227.45	4,175.4	-279.6	-266.5	386.0	0.00	0.00	0.00
4,240.0	7.59	227.45	4,215.1	-283.2	-270.4	391.3	0.00	0.00	0.00
4,280.0	7.59	227.45	4,254.7	-286.8	-274.3	396.6	0.00	0.00	0.00
4,320.0	7.59	227.45	4,294.4	-290.4	-278.2	401.8	0.00	0.00	0.00
4,360.0	7.59	227.45	4,334.0	-293.9	-282.1	407.1	0.00	0.00	0.00
4,400.0	7.59	227.45	4,373.7	-297.5	-285.9	412.4	0.00	0.00	0.00
4,440.0	7.59	227.45	4,413.3	-301.1	-289.8	417.7	0.00	0.00	0.00
4,480.0	7.59	227.45	4,453.0	-304.6	-293.7	423.0	0.00	0.00	0.00
4,520.0	7.59	227.45	4,492.6	-308.2	-297.6	428.2	0.00	0.00	0.00
4,560.0	7.59	227.45	4,532.3	-311.8	-301.5	433.5	0.00	0.00	0.00
4,600.0	7.59	227.45	4,571.9	-315.4	-305.4	438.8	0.00	0.00	0.00
4,640.0	7.59	227.45	4,611.6	-318.9	-309.3	444.1	0.00	0.00	0.00
4,680.0	7.59	227.45	4,651.2	-322.5	-313.2	449.4	0.00	0.00	0.00
4,720.0	7.59	227.45	4,690.9	-326.1	-317.1	454.6	0.00	0.00	0.00
4,760.0	7.59	227.45	4,730.5	-329.6	-321.0	459.9	0.00	0.00	0.00
4,800.0	7.59	227.45	4,770.2	-333.2	-324.9	465.2	0.00	0.00	0.00
4,840.0	7.59	227.45	4,809.8	-336.8	-328.7	470.5	0.00	0.00	0.00
4,880.0	7.59	227.45	4,849.5	-340.4	-332.6	475.8	0.00	0.00	0.00
4,920.0	7.59	227.45	4,889.1	-343.9	-336.5	481.0	0.00	0.00	0.00
4,960.0	7.59	227.45	4,928.8	-347.5	-340.4	486.3	0.00	0.00	0.00
5,000.0	7.59	227.45	4,968.4	-351.1	-344.3	491.6	0.00	0.00	0.00
5,040.0	7.59	227.45	5,008.1	-354.7	-348.2	496.9	0.00	0.00	0.00
5,080.0	7.59	227.45	5,047.7	-358.2	-352.1	502.2	0.00	0.00	0.00
5,120.0	7.59	227.45	5,087.4	-361.8	-356.0	507.4	0.00	0.00	0.00
5,160.0	7.59	227.45	5,127.0	-365.4	-359.9	512.7	0.00	0.00	0.00
5,200.0	7.59	227.45	5,166.7	-368.9	-363.8	518.0	0.00	0.00	0.00
5,240.0	7.59	227.45	5,206.3	-372.5	-367.7	523.3	0.00	0.00	0.00
5,280.0	7.59	227.45	5,246.0	-376.1	-371.5	528.6	0.00	0.00	0.00
5,320.0	7.59	227.45	5,285.6	-379.7	-375.4	533.8	0.00	0.00	0.00
5,360.0	7.59	227.45	5,325.3	-383.2	-379.3	539.1	0.00	0.00	0.00
5,400.0	7.59	227.45	5,364.9	-386.8	-383.2	544.4	0.00	0.00	0.00
5,440.0	7.59	227.45	5,404.6	-390.4	-387.1	549.7	0.00	0.00	0.00
5,480.0	7.59	227.45	5,444.2	-393.9	-391.0	554.9	0.00	0.00	0.00
5,520.0	7.59	227.45	5,483.8	-397.5	-394.9	560.2	0.00	0.00	0.00
5,560.0	7.59	227.45	5,523.5	-401.1	-398.8	565.5	0.00	0.00	0.00
5,600.0	7.59	227.45	5,563.1	-404.7	-402.7	570.8	0.00	0.00	0.00
5,640.0	7.59	227.45	5,602.8	-408.2	-406.6	576.1	0.00	0.00	0.00
5,680.0	7.59	227.45	5,642.4	-411.8	-410.4	581.3	0.00	0.00	0.00
5,691.2	7.59	227.45	5,653.6	-412.8	-411.5	582.8	0.00	0.00	0.00
PERMIT TARGET 2178°FNL, 2176°FEL									
5,720.0	7.59	227.45	5,682.1	-415.4	-414.3	586.6	0.00	0.00	0.00
5,760.0	7.59	227.45	5,721.7	-418.9	-418.2	591.9	0.00	0.00	0.00
5,800.0	7.59	227.45	5,761.4	-422.5	-422.1	597.2	0.00	0.00	0.00
5,840.0	7.59	227.45	5,801.0	-426.1	-426.0	602.5	0.00	0.00	0.00
5,880.0	7.59	227.45	5,840.7	-429.7	-429.9	607.7	0.00	0.00	0.00
5,920.0	7.59	227.45	5,880.3	-433.2	-433.8	613.0	0.00	0.00	0.00
5,960.0	7.59	227.45	5,920.0	-436.8	-437.7	618.3	0.00	0.00	0.00
6,000.0	7.59	227.45	5,959.6	-440.4	-441.6	623.6	0.00	0.00	0.00
6,040.0	7.59	227.45	5,999.3	-443.9	-445.5	628.9	0.00	0.00	0.00
6,080.0	7.59	227.45	6,038.9	-447.5	-449.4	634.1	0.00	0.00	0.00
6,120.0	7.59	227.45	6,078.6	-451.1	-453.2	639.4	0.00	0.00	0.00
6,160.0	7.59	227.45	6,118.2	-454.7	-457.1	644.7	0.00	0.00	0.00
6,200.0	7.59	227.45	6,157.9	-458.2	-461.0	650.0	0.00	0.00	0.00

Database: Landmark
Company: Synergy Resources
Project: SEC.10-T4N-R68W
Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Well: SRC Avex 32-10D
Wellbore: Wellbore #1
Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	7.59	227.45	6,197.5	-461.8	-464.9	655.3	0.00	0.00	0.00
6,280.0	7.59	227.45	6,237.2	-465.4	-468.8	660.5	0.00	0.00	0.00
6,320.0	7.59	227.45	6,276.8	-469.0	-472.7	665.8	0.00	0.00	0.00
6,360.0	7.59	227.45	6,316.5	-472.5	-476.6	671.1	0.00	0.00	0.00
6,400.0	7.59	227.45	6,356.1	-476.1	-480.5	676.4	0.00	0.00	0.00
6,440.0	7.59	227.45	6,395.8	-479.7	-484.4	681.7	0.00	0.00	0.00
6,480.0	7.59	227.45	6,435.4	-483.2	-488.3	686.9	0.00	0.00	0.00
6,520.0	7.59	227.45	6,475.1	-486.8	-492.2	692.2	0.00	0.00	0.00
6,560.0	7.59	227.45	6,514.7	-490.4	-496.0	697.5	0.00	0.00	0.00
6,600.0	7.59	227.45	6,554.4	-494.0	-499.9	702.8	0.00	0.00	0.00
6,640.0	7.59	227.45	6,594.0	-497.5	-503.8	708.1	0.00	0.00	0.00
6,680.0	7.59	227.45	6,633.7	-501.1	-507.7	713.3	0.00	0.00	0.00
6,720.0	7.59	227.45	6,673.3	-504.7	-511.6	718.6	0.00	0.00	0.00
6,748.2	7.59	227.45	6,701.3	-507.2	-514.3	722.3	0.00	0.00	0.00
LEGAL BOX 400' X 400' 2001'FWL & 1995'FEL									
6,760.0	7.59	227.45	6,713.0	-508.2	-515.5	723.9	0.00	0.00	0.00
6,800.0	7.59	227.45	6,752.6	-511.8	-519.4	729.2	0.00	0.00	0.00
6,840.0	7.59	227.45	6,792.3	-515.4	-523.3	734.5	0.00	0.00	0.00
6,880.0	7.59	227.45	6,831.9	-519.0	-527.2	739.7	0.00	0.00	0.00
6,920.0	7.59	227.45	6,871.6	-522.5	-531.1	745.0	0.00	0.00	0.00
6,960.0	7.59	227.45	6,911.2	-526.1	-535.0	750.3	0.00	0.00	0.00
7,000.0	7.59	227.45	6,950.9	-529.7	-538.8	755.6	0.00	0.00	0.00
7,040.0	7.59	227.45	6,990.5	-533.2	-542.7	760.9	0.00	0.00	0.00
7,080.0	7.59	227.45	7,030.2	-536.8	-546.6	766.1	0.00	0.00	0.00
7,120.0	7.59	227.45	7,069.8	-540.4	-550.5	771.4	0.00	0.00	0.00
7,160.0	7.59	227.45	7,109.5	-544.0	-554.4	776.7	0.00	0.00	0.00
7,200.0	7.59	227.45	7,149.1	-547.5	-558.3	782.0	0.00	0.00	0.00
7,240.0	7.59	227.45	7,188.8	-551.1	-562.2	787.2	0.00	0.00	0.00
7,280.0	7.59	227.45	7,228.4	-554.7	-566.1	792.5	0.00	0.00	0.00
7,320.0	7.59	227.45	7,268.1	-558.3	-570.0	797.8	0.00	0.00	0.00
7,360.0	7.59	227.45	7,307.7	-561.8	-573.9	803.1	0.00	0.00	0.00
7,400.0	7.59	227.45	7,347.4	-565.4	-577.7	808.4	0.00	0.00	0.00
7,440.0	7.59	227.45	7,387.0	-569.0	-581.6	813.6	0.00	0.00	0.00
7,480.0	7.59	227.45	7,426.7	-572.5	-585.5	818.9	0.00	0.00	0.00
7,520.0	7.59	227.45	7,466.3	-576.1	-589.4	824.2	0.00	0.00	0.00
7,560.0	7.59	227.45	7,506.0	-579.7	-593.3	829.5	0.00	0.00	0.00
7,600.0	7.59	227.45	7,545.6	-583.3	-597.2	834.8	0.00	0.00	0.00
7,640.0	7.59	227.45	7,585.3	-586.8	-601.1	840.0	0.00	0.00	0.00
7,680.0	7.59	227.45	7,624.9	-590.4	-605.0	845.3	0.00	0.00	0.00
7,720.0	7.59	227.45	7,664.6	-594.0	-608.9	850.6	0.00	0.00	0.00
7,760.0	7.59	227.45	7,704.2	-597.5	-612.8	855.9	0.00	0.00	0.00
7,800.0	7.59	227.45	7,743.9	-601.1	-616.7	861.2	0.00	0.00	0.00
7,840.0	7.59	227.45	7,783.5	-604.7	-620.5	866.4	0.00	0.00	0.00
7,880.0	7.59	227.45	7,823.2	-608.3	-624.4	871.7	0.00	0.00	0.00
7,920.0	7.59	227.45	7,862.8	-611.8	-628.3	877.0	0.00	0.00	0.00
7,960.0	7.59	227.45	7,902.5	-615.4	-632.2	882.3	0.00	0.00	0.00
8,000.0	7.59	227.45	7,942.1	-619.0	-636.1	887.6	0.00	0.00	0.00
8,040.0	7.59	227.45	7,981.8	-622.5	-640.0	892.8	0.00	0.00	0.00
8,080.0	7.59	227.45	8,021.4	-626.1	-643.9	898.1	0.00	0.00	0.00
8,120.0	7.59	227.45	8,061.1	-629.7	-647.8	903.4	0.00	0.00	0.00
8,159.3	7.59	227.45	8,100.0	-633.2	-651.6	908.6	0.00	0.00	0.00

DRILL TARGET BHL 2126'FNL, 2120'FEL

Database: Landmark
Company: Synergy Resources
Project: SEC.10-T4N-R68W
Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Well: SRC Avex 32-10D
Wellbore: Wellbore #1
Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PERMIT TARGET 21'	0.00	0.00	5,600.0	-685.2	-707.6	1,363,276.23	3,142,862.81	40.329461	-104.987577
- plan misses target center by 405.9ft at 5691.2ft MD (5653.6 TVD, -412.8 N, -411.5 E)									
- Point									
DRILL TARGET BHL	0.00	0.00	8,100.0	-633.2	-651.6	1,363,328.59	3,142,918.53	40.329604	-104.987376
- plan hits target center									
- Point									
LEGAL BOX 400' X 400'	0.00	0.00	6,700.0	-508.2	-526.6	1,363,454.31	3,143,042.80	40.329947	-104.986928
- plan misses target center by 12.4ft at 6748.2ft MD (6701.3 TVD, -507.2 N, -514.3 E)									
- Rectangle (sides W400.0 H400.0 D1,400.0)									

Casing Points

Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(")	(")
550.0	550.0	8 5/8"	8-5/8	12-1/4



Directional

Synergy Resources

SEC.10-T4N-R68W

SRC Avex 42-10D Pad Sec.10-T4N-R68W

SRC Avex 32-10D

Wellbore #1

Plan #1 (7-12-11)

Anticollision Report

26 July, 2011

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Avex 32-10D
Project:	SEC.10-T4N-R68W	TVD Reference:	WELL @ 5051.0ft (Original Well Elev)
Reference Site:	SRC Avex 42-10D Pad Sec.10-T4N-R68W	MD Reference:	WELL @ 5051.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Avex 32-10D	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 #1 (7-12-11)	Offset TVD Reference:	Offset Datum

Reference Plan #1 (7-12-11)

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria	Error Model:	ISCWSA
Interpolation Method:	Stations	Scan Method:	Closest Approach 3D
Depth Range:	Unlimited	Error Surface:	Elliptical Conic
Results Limited by:	Maximum center-center distance of 10,000.0ft		
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program Date 7/26/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	8,159.3	Plan #1 (7-12-11) (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SRC Avex 42-10D Pad Sec.10-T4N-R68W						
SRC Avex 10C (Vert.) - Wellbore #1 - Design #1	800.0	800.0	20.1	16.7	5.955	CC
SRC Avex 10C (Vert.) - Wellbore #1 - Design #1	900.0	900.0	20.3	16.5	5.343	ES
SRC Avex 10C (Vert.) - Wellbore #1 - Design #1	1,100.0	1,099.9	22.9	18.3	4.976	SF
SRC Avex 31-10D - Wellbore #1 - Plan #1 (7-12-11)	999.9	999.8	19.8	15.6	4.714	CC
SRC Avex 31-10D - Wellbore #1 - Plan #1 (7-12-11)	1,000.0	1,000.0	19.8	15.6	4.713	ES
SRC Avex 31-10D - Wellbore #1 - Plan #1 (7-12-11)	1,100.0	1,099.6	21.0	16.4	4.555	SF

Offset Design

SRC Avex 42-10D Pad Sec.10-T4N-R68W - SRC Avex 10C (Vert.) - Wellbore #1 - Design #1												Offset Site Error:	0.0ft
Survey Program: 0-MWD												Offset Well Error:	0.0ft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	88.96	0.4	20.1	20.1				
100.0	100.0	100.0	100.0	0.1	0.1	88.96	0.4	20.1	20.1	19.9	0.22	89.325	
200.0	200.0	200.0	200.0	0.3	0.3	88.96	0.4	20.1	20.1	19.4	0.67	29.775	
300.0	300.0	300.0	300.0	0.6	0.6	88.96	0.4	20.1	20.1	19.0	1.12	17.865	
400.0	400.0	400.0	400.0	0.8	0.8	88.96	0.4	20.1	20.1	18.5	1.57	12.761	
500.0	500.0	500.0	500.0	1.0	1.0	88.96	0.4	20.1	20.1	18.1	2.02	9.925	
600.0	600.0	600.0	600.0	1.2	1.2	88.96	0.4	20.1	20.1	17.6	2.47	8.120	
700.0	700.0	700.0	700.0	1.5	1.5	88.96	0.4	20.1	20.1	17.2	2.92	6.871	
800.0	800.0	800.0	800.0	1.7	1.7	88.96	0.4	20.1	20.1	16.7	3.37	5.955	CC
900.0	900.0	900.0	900.0	1.9	1.9	-103.46	0.4	20.1	20.3	16.5	3.79	5.343	ES
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	-110.40	0.4	20.1	21.0	16.8	4.19	5.013	
1,100.0	1,099.9	1,099.9	1,099.9	2.2	2.4	-120.66	0.4	20.1	22.9	18.3	4.61	4.976	SF
1,200.0	1,199.7	1,199.7	1,199.7	2.4	2.6	-132.02	0.4	20.1	26.6	21.5	5.03	5.285	
1,300.0	1,299.4	1,299.4	1,299.4	2.7	2.8	-142.36	0.4	20.1	32.3	26.9	5.45	5.936	
1,400.0	1,399.0	1,399.0	1,399.0	2.9	3.0	-159.77	0.4	20.1	40.2	34.3	5.88	6.839	
1,500.0	1,498.5	1,498.5	1,498.5	3.1	3.3	-171.93	0.4	20.1	49.6	43.2	6.31	7.849	
1,600.0	1,597.9	1,597.9	1,597.9	3.4	3.5	179.68	0.4	20.1	60.1	53.3	6.75	8.903	
1,700.0	1,697.3	1,697.3	1,697.3	3.7	3.7	173.97	0.4	20.1	71.7	64.6	7.19	9.983	
1,772.0	1,768.7	1,768.7	1,768.7	3.9	3.9	171.05	0.4	20.1	80.8	73.3	7.50	10.776	
1,800.0	1,796.4	1,796.4	1,796.4	3.9	3.9	171.44	0.4	20.1	84.5	76.9	7.62	11.080	
1,900.0	1,895.5	1,895.5	1,895.5	4.2	4.1	172.60	0.4	20.1	97.6	89.5	8.07	12.095	

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

Company: Synergy Resources
Project: SEC.10-T4N-R68W
Reference Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Site Error: 0.0ft
Reference Well: SRC Avex 32-10D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Offset Design SRC Avex 42-10D Pad Sec.10-T4N-R68W - SRC Avex 10C (Vert.) - Wellbore #1 - Design #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,000.0	1,994.7	1,994.7	1,994.7	4.5	4.4	173.48	0.4	20.1	110.7	102.2	8.51	13.004		
2,100.0	2,093.8	2,093.8	2,093.8	4.8	4.6	174.17	0.4	20.1	123.8	114.8	8.96	13.821		
2,200.0	2,192.9	2,192.9	2,192.9	5.1	4.8	174.73	0.4	20.1	136.9	127.5	9.41	14.560		
2,300.0	2,292.0	2,292.0	2,292.0	5.4	5.0	175.20	0.4	20.1	150.1	140.2	9.86	15.230		
2,400.0	2,391.2	2,391.2	2,391.2	5.7	5.3	175.58	0.4	20.1	163.3	153.0	10.31	15.840		
2,500.0	2,490.3	2,490.3	2,490.3	6.1	5.5	175.91	0.4	20.1	176.4	165.7	10.76	16.397		
2,600.0	2,589.4	2,589.4	2,589.4	6.4	5.7	176.20	0.4	20.1	189.6	178.4	11.21	16.909		
2,700.0	2,688.5	2,688.5	2,688.5	6.7	5.9	176.45	0.4	20.1	202.8	191.1	11.67	17.379		
2,800.0	2,787.7	2,787.7	2,787.7	7.0	6.2	176.66	0.4	20.1	216.0	203.8	12.12	17.814		
2,900.0	2,886.8	2,886.8	2,886.8	7.4	6.4	176.85	0.4	20.1	229.1	216.6	12.58	18.216		
3,000.0	2,985.9	2,985.9	2,985.9	7.7	6.6	177.03	0.4	20.1	242.3	229.3	13.04	18.589		
3,100.0	3,085.0	3,085.0	3,085.0	8.0	6.8	177.18	0.4	20.1	255.5	242.0	13.49	18.936		
3,200.0	3,184.2	3,184.2	3,184.2	8.3	7.0	177.32	0.4	20.1	268.7	254.8	13.95	19.260		
3,300.0	3,283.3	3,283.3	3,283.3	8.7	7.3	177.44	0.4	20.1	281.9	267.5	14.41	19.563		
3,400.0	3,382.4	3,382.4	3,382.4	9.0	7.5	177.56	0.4	20.1	295.1	280.2	14.87	19.847		
3,500.0	3,481.5	3,481.5	3,481.5	9.3	7.7	177.66	0.4	20.1	308.3	293.0	15.33	20.113		
3,600.0	3,580.7	3,580.7	3,580.7	9.7	7.9	177.76	0.4	20.1	321.5	305.7	15.79	20.363		
3,700.0	3,679.8	3,679.8	3,679.8	10.0	8.2	177.85	0.4	20.1	334.7	318.4	16.25	20.599		
3,800.0	3,778.9	3,778.9	3,778.9	10.3	8.4	177.93	0.4	20.1	347.9	331.2	16.71	20.821		
3,900.0	3,878.0	3,878.0	3,878.0	10.7	8.6	178.00	0.4	20.1	361.1	343.9	17.17	21.031		
4,000.0	3,977.2	3,977.2	3,977.2	11.0	8.8	178.07	0.4	20.1	374.3	356.6	17.63	21.230		
4,100.0	4,076.3	4,076.3	4,076.3	11.3	9.0	178.14	0.4	20.1	387.5	369.4	18.09	21.419		
4,200.0	4,175.4	4,175.4	4,175.4	11.7	9.3	178.20	0.4	20.1	400.7	382.1	18.55	21.598		
4,300.0	4,274.5	4,274.5	4,274.5	12.0	9.5	178.26	0.4	20.1	413.9	394.8	19.01	21.768		
4,400.0	4,373.7	4,373.7	4,373.7	12.3	9.7	178.31	0.4	20.1	427.1	407.6	19.47	21.930		
4,500.0	4,472.8	4,472.8	4,472.8	12.7	9.9	178.36	0.4	20.1	440.2	420.3	19.94	22.084		
4,600.0	4,571.9	4,571.9	4,571.9	13.0	10.2	178.41	0.4	20.1	453.4	433.1	20.40	22.231		
4,700.0	4,671.0	4,671.0	4,671.0	13.4	10.4	178.46	0.4	20.1	466.6	445.8	20.86	22.371		
4,800.0	4,770.2	4,770.2	4,770.2	13.7	10.6	178.50	0.4	20.1	479.8	458.5	21.32	22.505		
4,900.0	4,869.3	4,869.3	4,869.3	14.0	10.8	178.54	0.4	20.1	493.0	471.3	21.78	22.633		
5,000.0	4,968.4	4,968.4	4,968.4	14.4	11.1	178.58	0.4	20.1	506.2	484.0	22.25	22.756		
5,100.0	5,067.5	5,067.5	5,067.5	14.7	11.3	178.61	0.4	20.1	519.4	496.7	22.71	22.874		
5,200.0	5,166.7	5,166.7	5,166.7	15.0	11.5	178.65	0.4	20.1	532.6	509.5	23.17	22.987		
5,300.0	5,265.8	5,265.8	5,265.8	15.4	11.7	178.68	0.4	20.1	545.8	522.2	23.63	23.095		
5,400.0	5,364.9	5,364.9	5,364.9	15.7	11.9	178.71	0.4	20.1	559.0	535.0	24.10	23.199		
5,500.0	5,464.0	5,464.0	5,464.0	16.1	12.2	178.74	0.4	20.1	572.3	547.7	24.56	23.299		
5,600.0	5,563.1	5,563.1	5,563.1	16.4	12.4	178.77	0.4	20.1	585.5	560.4	25.02	23.396		
5,700.0	5,662.3	5,662.3	5,662.3	16.7	12.6	178.80	0.4	20.1	598.7	573.2	25.49	23.488		
5,800.0	5,761.4	5,761.4	5,761.4	17.1	12.8	178.82	0.4	20.1	611.9	585.9	25.95	23.577		
5,900.0	5,860.5	5,860.5	5,860.5	17.4	13.1	178.85	0.4	20.1	625.1	598.6	26.41	23.664		
6,000.0	5,959.6	5,959.6	5,959.6	17.8	13.3	178.87	0.4	20.1	638.3	611.4	26.88	23.747		
6,100.0	6,058.8	6,058.8	6,058.8	18.1	13.5	178.89	0.4	20.1	651.5	624.1	27.34	23.827		
6,200.0	6,157.9	6,157.9	6,157.9	18.4	13.7	178.92	0.4	20.1	664.7	636.9	27.81	23.904		
6,300.0	6,257.0	6,257.0	6,257.0	18.8	14.0	178.94	0.4	20.1	677.9	649.6	28.27	23.979		
6,400.0	6,356.1	6,356.1	6,356.1	19.1	14.2	178.96	0.4	20.1	691.1	662.3	28.73	24.051		
6,500.0	6,455.3	6,455.3	6,455.3	19.5	14.4	178.98	0.4	20.1	704.3	675.1	29.20	24.121		
6,600.0	6,554.4	6,554.4	6,554.4	19.8	14.6	179.00	0.4	20.1	717.5	687.8	29.66	24.189		
6,700.0	6,653.5	6,653.5	6,653.5	20.1	14.8	179.01	0.4	20.1	730.7	700.5	30.13	24.255		
6,800.0	6,752.6	6,752.6	6,752.6	20.5	15.1	179.03	0.4	20.1	743.9	713.3	30.59	24.318		
6,900.0	6,851.8	6,851.8	6,851.8	20.8	15.3	179.05	0.4	20.1	757.1	726.0	31.05	24.380		
7,000.0	6,950.9	6,950.9	6,950.9	21.2	15.5	179.06	0.4	20.1	770.3	738.8	31.52	24.439		
7,100.0	7,050.0	7,050.0	7,050.0	21.5	15.7	179.08	0.4	20.1	783.5	751.5	31.98	24.497		

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

Company: Synergy Resources
Project: SEC.10-T4N-R68W
Reference Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Site Error: 0.0ft
Reference Well: SRC Avex 32-10D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Offset Design SRC Avex 42-10D Pad Sec.10-T4N-R68W - SRC Avex 10C (Vert.) - Wellbore #1 - Design #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
7,200.0	7,149.1	7,149.1	7,149.1	21.8	16.0	179.10	0.4	20.1	796.7	764.2	32.45	24.554		
7,300.0	7,248.3	7,248.3	7,248.3	22.2	16.2	179.11	0.4	20.1	809.9	777.0	32.91	24.608		
7,400.0	7,347.4	7,347.4	7,347.4	22.5	16.4	179.12	0.4	20.1	823.1	789.7	33.38	24.661		
7,500.0	7,446.5	7,446.5	7,446.5	22.9	16.6	179.14	0.4	20.1	836.3	802.5	33.84	24.713		
7,600.0	7,545.6	7,545.6	7,545.6	23.2	16.8	179.15	0.4	20.1	849.5	815.2	34.31	24.763		
7,700.0	7,644.8	7,644.8	7,644.8	23.5	17.1	179.17	0.4	20.1	862.7	827.9	34.77	24.812		
7,800.0	7,743.9	7,743.9	7,743.9	23.9	17.3	179.18	0.4	20.1	875.9	840.7	35.23	24.859		
7,900.0	7,843.0	7,843.0	7,843.0	24.2	17.5	179.19	0.4	20.1	889.1	853.4	35.70	24.905		
8,000.0	7,942.1	7,942.1	7,942.1	24.6	17.7	179.20	0.4	20.1	902.3	866.1	36.16	24.950		
8,100.0	8,041.3	8,041.3	8,041.3	24.9	18.0	179.21	0.4	20.1	915.5	878.9	36.63	24.994		
8,159.3	8,100.0	8,100.0	8,100.0	25.1	18.1	179.22	0.4	20.1	923.3	886.4	36.91	25.019		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Avex 32-10D
Project:	SEC.10-T4N-R68W	TVD Reference:	WELL @ 5051.0ft (Original Well Elev)
Reference Site:	SRC Avex 42-10D Pad Sec.10-T4N-R68W	MD Reference:	WELL @ 5051.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Avex 32-10D	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 #1 (7-12-11)	Offset TVD Reference:	Offset Datum

Offset Design SRC Avex 42-10D Pad Sec.10-T4N-R68W - SRC Avex 31-10D - Wellbore #1 - Plan #1 (7-12-11)													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	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	-20.1	20.1				
100.0	100.0	100.0	100.0	0.1	0.1	-90.00		0.0	-20.1	20.1	19.8	0.22	89.310	
200.0	200.0	200.0	200.0	0.3	0.3	-90.00		0.0	-20.1	20.1	19.4	0.67	29.770	
300.0	300.0	300.0	300.0	0.6	0.6	-90.00		0.0	-20.1	20.1	19.0	1.12	17.862	
400.0	400.0	400.0	400.0	0.8	0.8	-90.00		0.0	-20.1	20.1	18.5	1.57	12.759	
500.0	500.0	500.0	500.0	1.0	1.0	-90.00		0.0	-20.1	20.1	18.1	2.02	9.923	
600.0	600.0	600.0	600.0	1.2	1.2	-90.00		0.0	-20.1	20.1	17.6	2.47	8.119	
700.0	700.0	700.0	700.0	1.5	1.5	-90.00		0.0	-20.1	20.1	17.2	2.92	6.870	
800.0	800.0	800.0	800.0	1.7	1.7	-90.00		0.0	-20.1	20.1	16.7	3.37	5.954	
900.0	900.0	900.0	900.0	1.9	1.9	82.47		0.0	-20.1	19.9	16.1	3.79	5.258	
999.9	999.8	999.8	999.8	2.1	2.1	90.00		0.0	-20.1	19.8	15.6	4.19	4.714 CC	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	90.01		0.0	-20.1	19.8	15.6	4.19	4.713 ES	
1,100.0	1,099.9	1,099.6	1,099.6	2.2	2.4	103.71		0.7	-20.6	21.0	16.4	4.60	4.555 SF	
1,200.0	1,199.7	1,198.9	1,198.8	2.4	2.6	120.17		2.9	-22.0	25.7	20.7	5.02	5.114	
1,300.0	1,299.4	1,297.7	1,297.6	2.7	2.8	133.30		6.4	-24.4	34.7	29.3	5.45	6.372	
1,400.0	1,399.0	1,396.1	1,395.7	2.9	3.0	131.61		11.4	-27.7	46.8	40.9	5.89	7.957	
1,500.0	1,498.5	1,494.0	1,493.4	3.1	3.3	128.80		17.7	-31.9	60.7	54.4	6.33	9.584	
1,600.0	1,597.9	1,591.5	1,590.5	3.4	3.5	125.98		25.4	-37.0	76.2	69.4	6.79	11.229	
1,700.0	1,697.3	1,688.5	1,686.8	3.7	3.7	123.52		34.4	-43.0	93.4	86.1	7.26	12.872	
1,772.0	1,768.7	1,758.0	1,755.8	3.9	3.9	122.03		41.7	-47.8	106.7	99.1	7.60	14.044	
1,800.0	1,796.4	1,785.0	1,782.5	3.9	4.0	122.84		44.7	-49.8	112.1	104.4	7.73	14.501	
1,900.0	1,895.5	1,880.9	1,877.4	4.2	4.3	125.00		56.2	-57.6	132.6	124.4	8.22	16.131	
2,000.0	1,994.7	1,976.3	1,971.6	4.5	4.6	126.29		69.0	-66.1	154.6	145.9	8.72	17.735	
2,100.0	2,093.8	2,073.5	2,067.4	4.8	4.9	127.14		82.8	-75.3	177.4	168.2	9.23	19.223	
2,200.0	2,192.9	2,170.9	2,163.3	5.1	5.2	127.79		96.6	-84.5	200.3	190.5	9.75	20.546	
2,300.0	2,292.0	2,268.2	2,259.2	5.4	5.5	128.31		110.4	-93.6	223.1	212.9	10.27	21.719	
2,400.0	2,391.2	2,365.5	2,355.1	5.7	5.8	128.74		124.2	-102.8	246.0	235.2	10.81	22.765	
2,500.0	2,490.3	2,462.9	2,451.0	6.1	6.2	129.09		138.0	-112.0	268.9	257.6	11.35	23.702	
2,600.0	2,589.4	2,560.2	2,546.9	6.4	6.5	129.39		151.8	-121.2	291.8	279.9	11.89	24.544	
2,700.0	2,688.5	2,657.5	2,642.9	6.7	6.9	129.64		165.6	-130.4	314.7	302.3	12.44	25.304	
2,800.0	2,787.7	2,754.8	2,738.8	7.0	7.2	129.86		179.3	-139.6	337.7	324.7	12.99	25.993	
2,900.0	2,886.8	2,852.2	2,834.7	7.4	7.6	130.05		193.1	-148.8	360.6	347.0	13.55	26.619	
3,000.0	2,985.9	2,949.5	2,930.6	7.7	7.9	130.22		206.9	-158.0	383.5	369.4	14.10	27.191	
3,100.0	3,085.0	3,046.8	3,026.5	8.0	8.3	130.37		220.7	-167.2	406.4	391.8	14.66	27.715	
3,200.0	3,184.2	3,144.2	3,122.4	8.3	8.7	130.50		234.5	-176.4	429.4	414.1	15.23	28.196	
3,300.0	3,283.3	3,241.5	3,218.3	8.7	9.0	130.62		248.3	-185.5	452.3	436.5	15.79	28.639	
3,400.0	3,382.4	3,338.8	3,314.2	9.0	9.4	130.73		262.1	-194.7	475.2	458.9	16.36	29.048	
3,500.0	3,481.5	3,436.2	3,410.1	9.3	9.7	130.83		275.9	-203.9	498.2	481.2	16.93	29.427	
3,600.0	3,580.7	3,533.5	3,506.0	9.7	10.1	130.92		289.7	-213.1	521.1	503.6	17.50	29.779	
3,700.0	3,679.8	3,630.8	3,602.0	10.0	10.5	131.00		303.4	-222.3	544.0	526.0	18.07	30.106	
3,800.0	3,778.9	3,728.2	3,697.9	10.3	10.8	131.08		317.2	-231.5	567.0	548.3	18.64	30.411	
3,900.0	3,878.0	3,825.5	3,793.8	10.7	11.2	131.15		331.0	-240.7	589.9	570.7	19.22	30.696	
4,000.0	3,977.2	3,922.8	3,889.7	11.0	11.6	131.21		344.8	-249.9	612.9	593.1	19.79	30.964	
4,100.0	4,076.3	4,020.1	3,985.6	11.3	11.9	131.27		358.6	-259.1	635.8	615.4	20.37	31.214	
4,200.0	4,175.4	4,117.5	4,081.5	11.7	12.3	131.33		372.4	-268.2	658.8	637.8	20.95	31.450	
4,300.0	4,274.5	4,214.8	4,177.4	12.0	12.7	131.38		386.2	-277.4	681.7	660.2	21.52	31.671	
4,400.0	4,373.7	4,312.1	4,273.3	12.3	13.1	131.43		400.0	-286.6	704.6	682.5	22.10	31.880	
4,500.0	4,472.8	4,409.5	4,369.2	12.7	13.4	131.47		413.7	-295.8	727.6	704.9	22.68	32.078	
4,600.0	4,571.9	4,506.8	4,465.1	13.0	13.8	131.52		427.5	-305.0	750.5	727.3	23.26	32.265	
4,700.0	4,671.0	4,604.1	4,561.0	13.4	14.2	131.56		441.3	-314.2	773.5	749.6	23.84	32.441	
4,800.0	4,770.2	4,701.5	4,657.0	13.7	14.5	131.59		455.1	-323.4	796.4	772.0	24.42	32.609	
4,900.0	4,869.3	4,798.8	4,752.9	14.0	14.9	131.63		468.9	-332.6	819.4	794.4	25.00	32.768	

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

Company: Synergy Resources
Project: SEC.10-T4N-R68W
Reference Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Site Error: 0.0ft
Reference Well: SRC Avex 32-10D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Offset Design SRC Avex 42-10D Pad Sec.10-T4N-R68W - SRC Avex 31-10D - Wellbore #1 - Plan #1 (7-12-11)													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,968.4	4,896.1	4,848.8	14.4	15.3	131.66	482.7	-341.8	842.3	816.7	25.59	32.919		
5,100.0	5,067.5	4,993.5	4,944.7	14.7	15.7	131.70	496.5	-351.0	865.3	839.1	26.17	33.063		
5,200.0	5,166.7	5,090.8	5,040.6	15.0	16.0	131.73	510.3	-360.1	888.2	861.5	26.75	33.200		
5,300.0	5,265.8	5,188.1	5,136.5	15.4	16.4	131.75	524.1	-369.3	911.2	883.8	27.34	33.331		
5,400.0	5,364.9	5,285.4	5,232.4	15.7	16.8	131.78	537.8	-378.5	934.1	906.2	27.92	33.456		
5,500.0	5,464.0	5,382.8	5,328.3	16.1	17.2	131.81	551.6	-387.7	957.0	928.5	28.50	33.575		
5,600.0	5,563.1	5,480.1	5,424.2	16.4	17.5	131.83	565.4	-396.9	980.0	950.9	29.09	33.689		
5,700.0	5,662.3	5,577.4	5,520.1	16.7	17.9	131.86	579.2	-406.1	1,002.9	973.3	29.67	33.798		
5,800.0	5,761.4	5,674.8	5,616.1	17.1	18.3	131.88	593.0	-415.3	1,025.9	995.6	30.26	33.903		
5,900.0	5,860.5	5,772.1	5,712.0	17.4	18.7	131.90	606.8	-424.5	1,048.8	1,018.0	30.85	34.003		
6,000.0	5,959.6	5,869.4	5,807.9	17.8	19.0	131.92	620.6	-433.7	1,071.8	1,040.4	31.43	34.100		
6,100.0	6,058.8	5,966.8	5,903.8	18.1	19.4	131.94	634.4	-442.8	1,094.7	1,062.7	32.02	34.192		
6,200.0	6,157.9	6,064.1	5,999.7	18.4	19.8	131.96	648.2	-452.0	1,117.7	1,085.1	32.60	34.281		
6,300.0	6,257.0	6,161.4	6,095.6	18.8	20.2	131.98	661.9	-461.2	1,140.6	1,107.4	33.19	34.366		
6,400.0	6,356.1	6,258.7	6,191.5	19.1	20.5	132.00	675.7	-470.4	1,163.6	1,129.8	33.78	34.448		
6,500.0	6,455.3	6,356.1	6,287.4	19.5	20.9	132.01	689.5	-479.6	1,186.5	1,152.2	34.36	34.528		
6,600.0	6,554.4	6,453.4	6,383.3	19.8	21.3	132.03	703.3	-488.8	1,209.5	1,174.5	34.95	34.604		
6,700.0	6,653.5	6,550.7	6,479.2	20.1	21.7	132.05	717.1	-498.0	1,232.4	1,196.9	35.54	34.677		
6,800.0	6,752.6	6,648.1	6,575.2	20.5	22.0	132.06	730.9	-507.2	1,255.4	1,219.2	36.13	34.748		
6,900.0	6,851.8	6,745.4	6,671.1	20.8	22.4	132.07	744.7	-516.4	1,278.3	1,241.6	36.72	34.817		
7,000.0	6,950.9	6,842.7	6,767.0	21.2	22.8	132.09	758.5	-525.6	1,301.3	1,264.0	37.30	34.883		
7,100.0	7,050.0	6,940.1	6,862.9	21.5	23.2	132.10	772.2	-534.7	1,324.2	1,286.3	37.89	34.947		
7,200.0	7,149.1	7,037.4	6,958.8	21.8	23.5	132.12	786.0	-543.9	1,347.2	1,308.7	38.48	35.008		
7,300.0	7,248.3	7,134.7	7,054.7	22.2	23.9	132.13	799.8	-553.1	1,370.1	1,331.0	39.07	35.068		
7,400.0	7,347.4	7,232.1	7,150.6	22.5	24.3	132.14	813.6	-562.3	1,393.1	1,353.4	39.66	35.126		
7,500.0	7,446.5	7,329.4	7,246.5	22.9	24.7	132.15	827.4	-571.5	1,416.0	1,375.8	40.25	35.182		
7,600.0	7,545.6	7,426.7	7,342.4	23.2	25.1	132.16	841.2	-580.7	1,439.0	1,398.1	40.84	35.236		
7,700.0	7,644.8	7,524.0	7,438.3	23.5	25.4	132.17	855.0	-589.9	1,461.9	1,420.5	41.43	35.288		
7,800.0	7,743.9	7,621.4	7,534.3	23.9	25.8	132.19	868.8	-599.1	1,484.9	1,442.8	42.02	35.339		
7,900.0	7,843.0	7,718.7	7,630.2	24.2	26.2	132.20	882.6	-608.3	1,507.8	1,465.2	42.61	35.388		
8,000.0	7,942.1	7,816.0	7,726.1	24.6	26.6	132.21	896.3	-617.4	1,530.8	1,487.6	43.20	35.436		
8,100.0	8,041.3	7,913.4	7,822.0	24.9	26.9	132.22	910.1	-626.6	1,553.7	1,509.9	43.79	35.483		
8,159.3	8,100.0	7,971.0	7,878.8	25.1	27.2	132.22	918.3	-632.1	1,567.3	1,523.2	44.14	35.509		

Company: Synergy Resources
Project: SEC.10-T4N-R68W
Reference Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Site Error: 0.0ft
Reference Well: SRC Avex 32-10D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

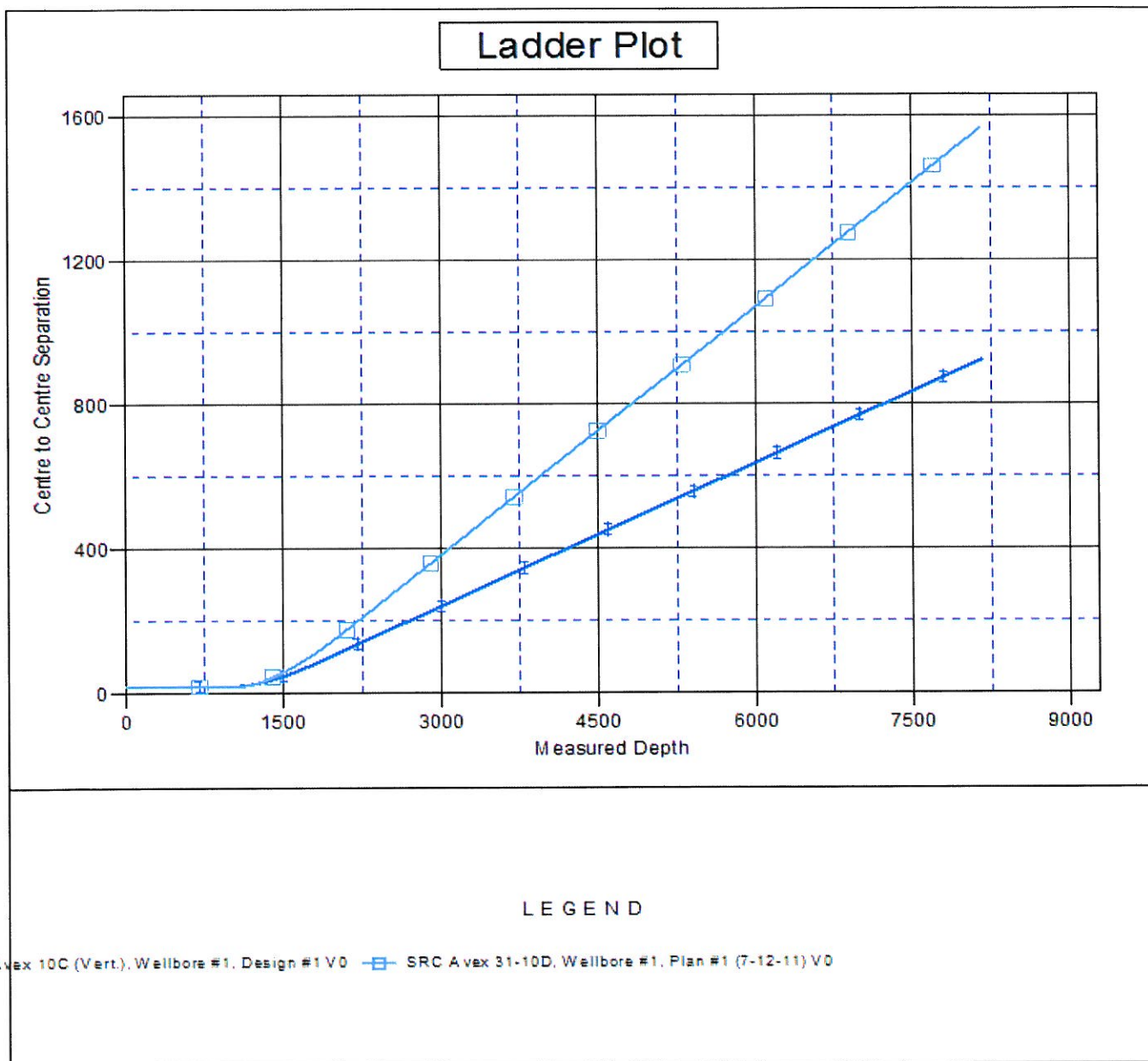
Reference Depths are relative to WELL @ 5051.0ft (Original Well Elev) Coordinates are relative to: SRC Avex 32-10D

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°



Company: Synergy Resources
Project: SEC.10-T4N-R68W
Reference Site: SRC Avex 42-10D Pad Sec.10-T4N-R68W
Site Error: 0.0ft
Reference Well: SRC Avex 32-10D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 32-10D
TVD Reference: WELL @ 5051.0ft (Original Well Elev)
MD Reference: WELL @ 5051.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 5051.0ft (Original Well Elev) Coordinates are relative to: SRC Avex 32-10D
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.33°

