

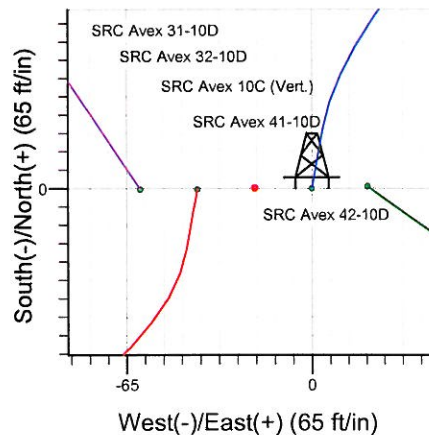
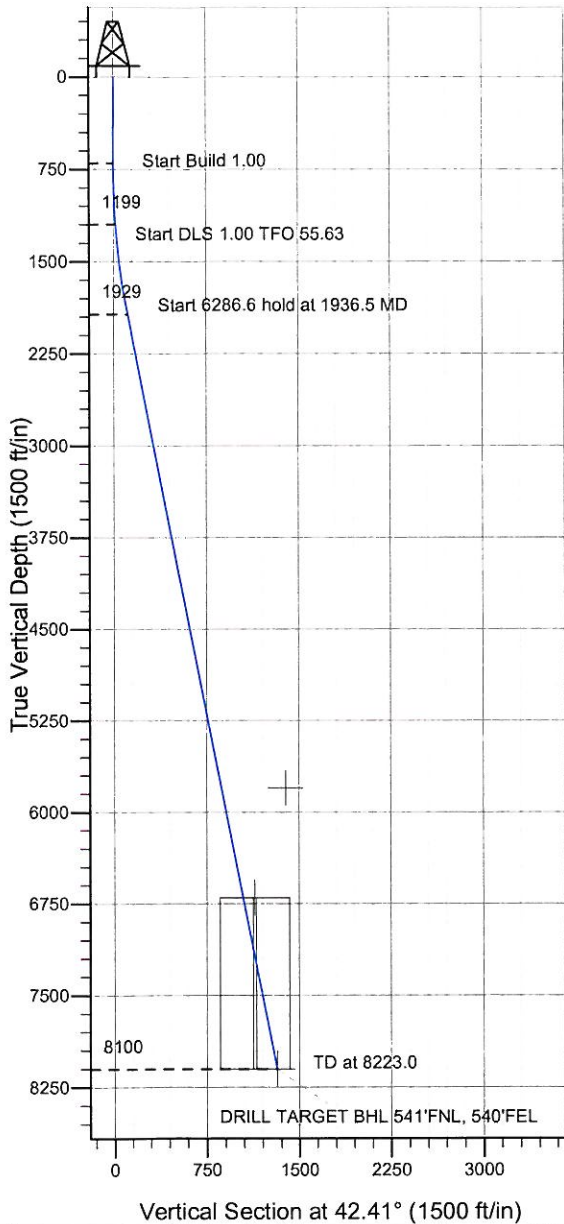
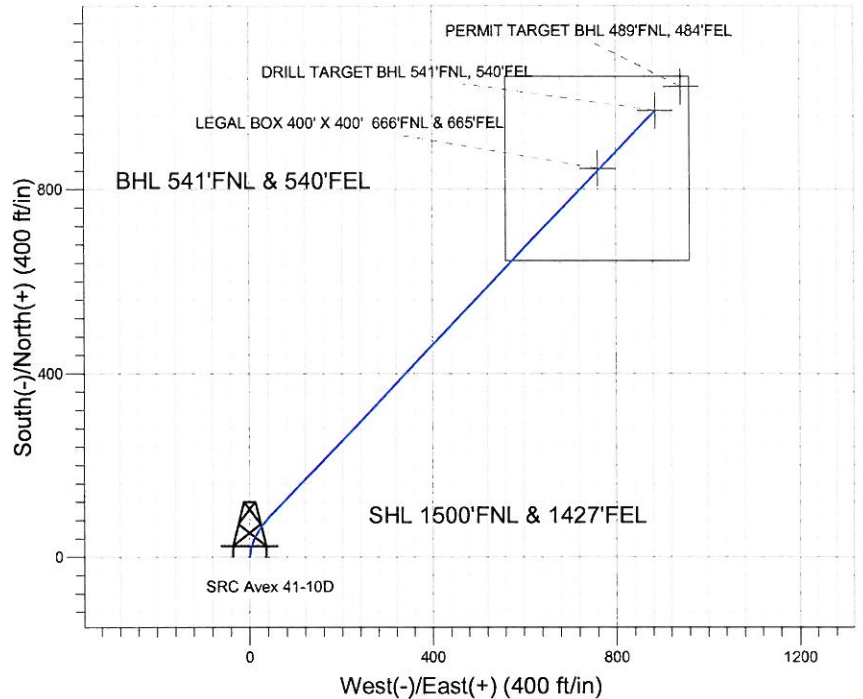
ENSIGN**Directional****Well Name: SRC Avex 41-10D**

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

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1363966.13	3143606.56	40.331343	-104.984895	

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

Synergy Resources

SRC Avex 42-10D Pad Sec.10-T4N-R68W
 SRC Avex 41-10D
 Plan #1 (7-12-11)
 9:32, 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 BHL 489'FNL, 484'FEL	5800.0	1021.9	942.0	40.334148	-104.981516	Point
LEGAL BOX 400' X 400' 666'FNL & 665'FEL	6700.0	844.9	761.0	40.333662	-104.982165	Rectangle (Sides: L400.0 W400.0)
DRILL TARGET BHL 541'FNL, 540'FEL	8100.0	969.9	886.0	40.334005	-104.981717	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	700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.0	
3	1200.0	5.00	10.00	1199.4	21.5	3.8	1.00	10.00	18.4	
4	1936.5	10.99	43.72	1928.7	103.9	57.9	1.00	55.63	115.8	
5	8223.0	10.99	43.72	8100.0	969.9	886.0	0.00	0.00	1313.7	DRILL TARGET BHL 541'FNL, 540'FEL



Directional

Synergy Resources

SEC.10-T4N-R68W

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

SRC Avex 41-10D

Wellbore #1

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

Standard Planning Report

26 July, 2011

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Avex 41-10D
Company:	Synergy Resources	TVD Reference:	WELL @ 5051.0ft (Original Well Elev)
Project:	SEC.10-T4N-R68W	MD Reference:	WELL @ 5051.0ft (Original Well Elev)
Site:	SRC Avex 42-10D Pad Sec.10-T4N-R68W	North Reference:	True
Well:	SRC Avex 41-10D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-12-11)		

Project	SEC.10-T4N-R68W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	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 41-10D					
Well Position	+N/-S	-0.7 ft	Northing:	1,363,966.13 ft	Latitude:	40.331343
	+E/-W	-19.8 ft	Easting:	3,143,606.56 ft	Longitude:	-104.984895
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	42.41

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	
700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	5.00	10.00	1,199.4	21.5	3.8	1.00	1.00	0.00	10.00	
1,936.5	10.99	43.72	1,928.7	103.9	57.9	1.00	0.81	4.58	55.63	
8,223.0	10.99	43.72	8,100.0	969.9	886.0	0.00	0.00	0.00	0.00	DRILL TARGET B-

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Avex 41-10D
Company:	Synergy Resources	TVD Reference:	WELL @ 5051.0ft (Original Well Elev)
Project:	SEC.10-T4N-R68W	MD Reference:	WELL @ 5051.0ft (Original Well Elev)
Site:	SRC Avex 42-10D Pad Sec.10-T4N-R68W	North Reference:	True
Well:	SRC Avex 41-10D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (7-12-11)		

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
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
720.0	0.20	10.00	720.0	0.0	0.0	0.0	1.00	1.00	0.00
760.0	0.60	10.00	760.0	0.3	0.1	0.3	1.00	1.00	0.00
800.0	1.00	10.00	800.0	0.9	0.2	0.7	1.00	1.00	0.00
840.0	1.40	10.00	840.0	1.7	0.3	1.4	1.00	1.00	0.00
880.0	1.80	10.00	880.0	2.8	0.5	2.4	1.00	1.00	0.00
920.0	2.20	10.00	919.9	4.2	0.7	3.6	1.00	1.00	0.00
960.0	2.60	10.00	959.9	5.8	1.0	5.0	1.00	1.00	0.00
1,000.0	3.00	10.00	999.9	7.7	1.4	6.6	1.00	1.00	0.00
1,040.0	3.40	10.00	1,039.8	9.9	1.8	8.5	1.00	1.00	0.00
1,080.0	3.80	10.00	1,079.7	12.4	2.2	10.6	1.00	1.00	0.00
1,120.0	4.20	10.00	1,119.6	15.2	2.7	13.0	1.00	1.00	0.00
1,160.0	4.60	10.00	1,159.5	18.2	3.2	15.6	1.00	1.00	0.00
1,200.0	5.00	10.00	1,199.4	21.5	3.8	18.4	1.00	1.00	0.00
1,240.0	5.24	13.62	1,239.2	25.0	4.5	21.5	1.00	0.59	9.05
1,280.0	5.49	16.92	1,279.0	28.6	5.5	24.8	1.00	0.64	8.24
1,320.0	5.76	19.91	1,318.8	32.3	6.7	28.4	1.00	0.68	7.49
1,360.0	6.05	22.63	1,358.6	36.1	8.2	32.2	1.00	0.71	6.80
1,400.0	6.35	25.10	1,398.4	40.1	10.0	36.3	1.00	0.75	6.18
1,440.0	6.66	27.35	1,438.1	44.1	12.0	40.7	1.00	0.77	5.62
1,480.0	6.97	29.39	1,477.9	48.3	14.3	45.3	1.00	0.80	5.11
1,520.0	7.30	31.26	1,517.5	52.6	16.8	50.1	1.00	0.82	4.66
1,560.0	7.63	32.97	1,557.2	57.0	19.5	55.2	1.00	0.83	4.26
1,600.0	7.97	34.53	1,596.8	61.5	22.5	60.6	1.00	0.85	3.91
1,640.0	8.32	35.96	1,636.4	66.1	25.8	66.2	1.00	0.86	3.59
1,680.0	8.67	37.28	1,676.0	70.9	29.3	72.1	1.00	0.87	3.30
1,720.0	9.02	38.50	1,715.5	75.7	33.1	78.2	1.00	0.88	3.05
1,760.0	9.38	39.63	1,755.0	80.7	37.1	84.6	1.00	0.89	2.82
1,800.0	9.74	40.67	1,794.4	85.8	41.4	91.3	1.00	0.90	2.61
1,840.0	10.10	41.64	1,833.8	91.0	46.0	98.2	1.00	0.91	2.43
1,880.0	10.47	42.54	1,873.2	96.2	50.8	105.3	1.00	0.92	2.26
1,920.0	10.84	43.39	1,912.5	101.7	55.8	112.7	1.00	0.92	2.11
1,936.5	10.99	43.72	1,928.7	103.9	57.9	115.8	1.00	0.92	2.01
1,960.0	10.99	43.72	1,951.8	107.2	61.0	120.3	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 41-10D
Wellbore: Wellbore #1
Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 41-10D
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	10.99	43.72	1,991.1	112.7	66.3	127.9	0.00	0.00	0.00
2,040.0	10.99	43.72	2,030.3	118.2	71.6	135.5	0.00	0.00	0.00
2,080.0	10.99	43.72	2,069.6	123.7	76.8	143.1	0.00	0.00	0.00
2,120.0	10.99	43.72	2,108.9	129.2	82.1	150.8	0.00	0.00	0.00
2,160.0	10.99	43.72	2,148.1	134.7	87.4	158.4	0.00	0.00	0.00
2,200.0	10.99	43.72	2,187.4	140.2	92.6	166.0	0.00	0.00	0.00
2,240.0	10.99	43.72	2,226.7	145.7	97.9	173.6	0.00	0.00	0.00
2,280.0	10.99	43.72	2,265.9	151.2	103.2	181.3	0.00	0.00	0.00
2,320.0	10.99	43.72	2,305.2	156.7	108.5	188.9	0.00	0.00	0.00
2,360.0	10.99	43.72	2,344.5	162.3	113.7	196.5	0.00	0.00	0.00
2,400.0	10.99	43.72	2,383.7	167.8	119.0	204.1	0.00	0.00	0.00
2,440.0	10.99	43.72	2,423.0	173.3	124.3	211.7	0.00	0.00	0.00
2,480.0	10.99	43.72	2,462.3	178.8	129.5	219.4	0.00	0.00	0.00
2,520.0	10.99	43.72	2,501.5	184.3	134.8	227.0	0.00	0.00	0.00
2,560.0	10.99	43.72	2,540.8	189.8	140.1	234.6	0.00	0.00	0.00
2,600.0	10.99	43.72	2,580.1	195.3	145.3	242.2	0.00	0.00	0.00
2,640.0	10.99	43.72	2,619.3	200.8	150.6	249.9	0.00	0.00	0.00
2,680.0	10.99	43.72	2,658.6	206.3	155.9	257.5	0.00	0.00	0.00
2,720.0	10.99	43.72	2,697.9	211.8	161.1	265.1	0.00	0.00	0.00
2,760.0	10.99	43.72	2,737.1	217.4	166.4	272.7	0.00	0.00	0.00
2,800.0	10.99	43.72	2,776.4	222.9	171.7	280.3	0.00	0.00	0.00
2,840.0	10.99	43.72	2,815.7	228.4	177.0	288.0	0.00	0.00	0.00
2,880.0	10.99	43.72	2,854.9	233.9	182.2	295.6	0.00	0.00	0.00
2,920.0	10.99	43.72	2,894.2	239.4	187.5	303.2	0.00	0.00	0.00
2,960.0	10.99	43.72	2,933.5	244.9	192.8	310.8	0.00	0.00	0.00
3,000.0	10.99	43.72	2,972.7	250.4	198.0	318.4	0.00	0.00	0.00
3,040.0	10.99	43.72	3,012.0	255.9	203.3	326.1	0.00	0.00	0.00
3,080.0	10.99	43.72	3,051.3	261.4	208.6	333.7	0.00	0.00	0.00
3,120.0	10.99	43.72	3,090.5	267.0	213.8	341.3	0.00	0.00	0.00
3,160.0	10.99	43.72	3,129.8	272.5	219.1	348.9	0.00	0.00	0.00
3,200.0	10.99	43.72	3,169.1	278.0	224.4	356.6	0.00	0.00	0.00
3,240.0	10.99	43.72	3,208.3	283.5	229.6	364.2	0.00	0.00	0.00
3,280.0	10.99	43.72	3,247.6	289.0	234.9	371.8	0.00	0.00	0.00
3,320.0	10.99	43.72	3,286.9	294.5	240.2	379.4	0.00	0.00	0.00
3,360.0	10.99	43.72	3,326.1	300.0	245.4	387.0	0.00	0.00	0.00
3,400.0	10.99	43.72	3,365.4	305.5	250.7	394.7	0.00	0.00	0.00
3,440.0	10.99	43.72	3,404.7	311.0	256.0	402.3	0.00	0.00	0.00
3,480.0	10.99	43.72	3,443.9	316.5	261.3	409.9	0.00	0.00	0.00
3,520.0	10.99	43.72	3,483.2	322.1	266.5	417.5	0.00	0.00	0.00
3,560.0	10.99	43.72	3,522.5	327.6	271.8	425.2	0.00	0.00	0.00
3,600.0	10.99	43.72	3,561.7	333.1	277.1	432.8	0.00	0.00	0.00
3,640.0	10.99	43.72	3,601.0	338.6	282.3	440.4	0.00	0.00	0.00
3,680.0	10.99	43.72	3,640.3	344.1	287.6	448.0	0.00	0.00	0.00
3,720.0	10.99	43.72	3,679.5	349.6	292.9	455.6	0.00	0.00	0.00
3,760.0	10.99	43.72	3,718.8	355.1	298.1	463.3	0.00	0.00	0.00
3,800.0	10.99	43.72	3,758.1	360.6	303.4	470.9	0.00	0.00	0.00
3,840.0	10.99	43.72	3,797.3	366.1	308.7	478.5	0.00	0.00	0.00
3,880.0	10.99	43.72	3,836.6	371.6	313.9	486.1	0.00	0.00	0.00
3,920.0	10.99	43.72	3,875.9	377.2	319.2	493.7	0.00	0.00	0.00
3,960.0	10.99	43.72	3,915.1	382.7	324.5	501.4	0.00	0.00	0.00
4,000.0	10.99	43.72	3,954.4	388.2	329.7	509.0	0.00	0.00	0.00
4,040.0	10.99	43.72	3,993.7	393.7	335.0	516.6	0.00	0.00	0.00
4,080.0	10.99	43.72	4,032.9	399.2	340.3	524.2	0.00	0.00	0.00
4,120.0	10.99	43.72	4,072.2	404.7	345.6	531.9	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
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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	10.99	43.72	4,111.5	410.2	350.8	539.5	0.00	0.00	0.00
4,200.0	10.99	43.72	4,150.7	415.7	356.1	547.1	0.00	0.00	0.00
4,240.0	10.99	43.72	4,190.0	421.2	361.4	554.7	0.00	0.00	0.00
4,280.0	10.99	43.72	4,229.3	426.7	366.6	562.3	0.00	0.00	0.00
4,320.0	10.99	43.72	4,268.5	432.3	371.9	570.0	0.00	0.00	0.00
4,360.0	10.99	43.72	4,307.8	437.8	377.2	577.6	0.00	0.00	0.00
4,400.0	10.99	43.72	4,347.1	443.3	382.4	585.2	0.00	0.00	0.00
4,440.0	10.99	43.72	4,386.3	448.8	387.7	592.8	0.00	0.00	0.00
4,480.0	10.99	43.72	4,425.6	454.3	393.0	600.5	0.00	0.00	0.00
4,520.0	10.99	43.72	4,464.9	459.8	398.2	608.1	0.00	0.00	0.00
4,560.0	10.99	43.72	4,504.1	465.3	403.5	615.7	0.00	0.00	0.00
4,600.0	10.99	43.72	4,543.4	470.8	408.8	623.3	0.00	0.00	0.00
4,640.0	10.99	43.72	4,582.7	476.3	414.0	630.9	0.00	0.00	0.00
4,680.0	10.99	43.72	4,621.9	481.8	419.3	638.6	0.00	0.00	0.00
4,720.0	10.99	43.72	4,661.2	487.4	424.6	646.2	0.00	0.00	0.00
4,760.0	10.99	43.72	4,700.5	492.9	429.9	653.8	0.00	0.00	0.00
4,800.0	10.99	43.72	4,739.7	498.4	435.1	661.4	0.00	0.00	0.00
4,840.0	10.99	43.72	4,779.0	503.9	440.4	669.0	0.00	0.00	0.00
4,880.0	10.99	43.72	4,818.3	509.4	445.7	676.7	0.00	0.00	0.00
4,920.0	10.99	43.72	4,857.5	514.9	450.9	684.3	0.00	0.00	0.00
4,960.0	10.99	43.72	4,896.8	520.4	456.2	691.9	0.00	0.00	0.00
5,000.0	10.99	43.72	4,936.1	525.9	461.5	699.5	0.00	0.00	0.00
5,040.0	10.99	43.72	4,975.3	531.4	466.7	707.2	0.00	0.00	0.00
5,080.0	10.99	43.72	5,014.6	536.9	472.0	714.8	0.00	0.00	0.00
5,120.0	10.99	43.72	5,053.9	542.5	477.3	722.4	0.00	0.00	0.00
5,160.0	10.99	43.72	5,093.1	548.0	482.5	730.0	0.00	0.00	0.00
5,200.0	10.99	43.72	5,132.4	553.5	487.8	737.6	0.00	0.00	0.00
5,240.0	10.99	43.72	5,171.7	559.0	493.1	745.3	0.00	0.00	0.00
5,280.0	10.99	43.72	5,210.9	564.5	498.3	752.9	0.00	0.00	0.00
5,320.0	10.99	43.72	5,250.2	570.0	503.6	760.5	0.00	0.00	0.00
5,360.0	10.99	43.72	5,289.5	575.5	508.9	768.1	0.00	0.00	0.00
5,400.0	10.99	43.72	5,328.7	581.0	514.2	775.8	0.00	0.00	0.00
5,440.0	10.99	43.72	5,368.0	586.5	519.4	783.4	0.00	0.00	0.00
5,480.0	10.99	43.72	5,407.3	592.0	524.7	791.0	0.00	0.00	0.00
5,520.0	10.99	43.72	5,446.5	597.6	530.0	798.6	0.00	0.00	0.00
5,560.0	10.99	43.72	5,485.8	603.1	535.2	806.2	0.00	0.00	0.00
5,600.0	10.99	43.72	5,525.1	608.6	540.5	813.9	0.00	0.00	0.00
5,640.0	10.99	43.72	5,564.3	614.1	545.8	821.5	0.00	0.00	0.00
5,680.0	10.99	43.72	5,603.6	619.6	551.0	829.1	0.00	0.00	0.00
5,720.0	10.99	43.72	5,642.9	625.1	556.3	836.7	0.00	0.00	0.00
5,760.0	10.99	43.72	5,682.1	630.6	561.6	844.3	0.00	0.00	0.00
5,800.0	10.99	43.72	5,721.4	636.1	566.8	852.0	0.00	0.00	0.00
5,840.0	10.99	43.72	5,760.7	641.6	572.1	859.6	0.00	0.00	0.00
5,880.0	10.99	43.72	5,799.9	647.1	577.4	867.2	0.00	0.00	0.00
5,920.0	10.99	43.72	5,839.2	652.7	582.6	874.8	0.00	0.00	0.00
5,960.0	10.99	43.72	5,878.5	658.2	587.9	882.5	0.00	0.00	0.00
5,979.7	10.99	43.72	5,897.8	660.9	590.5	886.2	0.00	0.00	0.00
PERMIT TARGET BHL 489'FNL, 484'FEL									
6,000.0	10.99	43.72	5,917.7	663.7	593.2	890.1	0.00	0.00	0.00
6,040.0	10.99	43.72	5,957.0	669.2	598.5	897.7	0.00	0.00	0.00
6,080.0	10.99	43.72	5,996.3	674.7	603.7	905.3	0.00	0.00	0.00
6,120.0	10.99	43.72	6,035.5	680.2	609.0	912.9	0.00	0.00	0.00
6,160.0	10.99	43.72	6,074.8	685.7	614.3	920.6	0.00	0.00	0.00
6,200.0	10.99	43.72	6,114.1	691.2	619.5	928.2	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 41-10D
Wellbore: Wellbore #1
Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 41-10D
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	10.99	43.72	6,153.3	696.7	624.8	935.8	0.00	0.00	0.00
6,280.0	10.99	43.72	6,192.6	702.2	630.1	943.4	0.00	0.00	0.00
6,320.0	10.99	43.72	6,231.9	707.8	635.3	951.1	0.00	0.00	0.00
6,360.0	10.99	43.72	6,271.1	713.3	640.6	958.7	0.00	0.00	0.00
6,400.0	10.99	43.72	6,310.4	718.8	645.9	966.3	0.00	0.00	0.00
6,440.0	10.99	43.72	6,349.7	724.3	651.1	973.9	0.00	0.00	0.00
6,480.0	10.99	43.72	6,388.9	729.8	656.4	981.5	0.00	0.00	0.00
6,520.0	10.99	43.72	6,428.2	735.3	661.7	989.2	0.00	0.00	0.00
6,560.0	10.99	43.72	6,467.5	740.8	666.9	996.8	0.00	0.00	0.00
6,600.0	10.99	43.72	6,506.7	746.3	672.2	1,004.4	0.00	0.00	0.00
6,640.0	10.99	43.72	6,546.0	751.8	677.5	1,012.0	0.00	0.00	0.00
6,680.0	10.99	43.72	6,585.3	757.3	682.8	1,019.7	0.00	0.00	0.00
6,720.0	10.99	43.72	6,624.5	762.9	688.0	1,027.3	0.00	0.00	0.00
6,760.0	10.99	43.72	6,663.8	768.4	693.3	1,034.9	0.00	0.00	0.00
6,800.0	10.99	43.72	6,703.1	773.9	698.6	1,042.5	0.00	0.00	0.00
6,815.0	10.99	43.72	6,717.8	775.9	700.5	1,045.4	0.00	0.00	0.00
LEGAL BOX 400' X 400' 666'FNL & 665'FEL									
6,840.0	10.99	43.72	6,742.3	779.4	703.8	1,050.1	0.00	0.00	0.00
6,880.0	10.99	43.72	6,781.6	784.9	709.1	1,057.8	0.00	0.00	0.00
6,920.0	10.99	43.72	6,820.9	790.4	714.4	1,065.4	0.00	0.00	0.00
6,960.0	10.99	43.72	6,860.1	795.9	719.6	1,073.0	0.00	0.00	0.00
7,000.0	10.99	43.72	6,899.4	801.4	724.9	1,080.6	0.00	0.00	0.00
7,040.0	10.99	43.72	6,938.7	806.9	730.2	1,088.2	0.00	0.00	0.00
7,080.0	10.99	43.72	6,977.9	812.5	735.4	1,095.9	0.00	0.00	0.00
7,120.0	10.99	43.72	7,017.2	818.0	740.7	1,103.5	0.00	0.00	0.00
7,160.0	10.99	43.72	7,056.5	823.5	746.0	1,111.1	0.00	0.00	0.00
7,200.0	10.99	43.72	7,095.7	829.0	751.2	1,118.7	0.00	0.00	0.00
7,240.0	10.99	43.72	7,135.0	834.5	756.5	1,126.4	0.00	0.00	0.00
7,280.0	10.99	43.72	7,174.3	840.0	761.8	1,134.0	0.00	0.00	0.00
7,320.0	10.99	43.72	7,213.5	845.5	767.1	1,141.6	0.00	0.00	0.00
7,360.0	10.99	43.72	7,252.8	851.0	772.3	1,149.2	0.00	0.00	0.00
7,400.0	10.99	43.72	7,292.1	856.5	777.6	1,156.8	0.00	0.00	0.00
7,440.0	10.99	43.72	7,331.3	862.0	782.9	1,164.5	0.00	0.00	0.00
7,480.0	10.99	43.72	7,370.6	867.6	788.1	1,172.1	0.00	0.00	0.00
7,520.0	10.99	43.72	7,409.9	873.1	793.4	1,179.7	0.00	0.00	0.00
7,560.0	10.99	43.72	7,449.1	878.6	798.7	1,187.3	0.00	0.00	0.00
7,600.0	10.99	43.72	7,488.4	884.1	803.9	1,195.0	0.00	0.00	0.00
7,640.0	10.99	43.72	7,527.7	889.6	809.2	1,202.6	0.00	0.00	0.00
7,680.0	10.99	43.72	7,566.9	895.1	814.5	1,210.2	0.00	0.00	0.00
7,720.0	10.99	43.72	7,606.2	900.6	819.7	1,217.8	0.00	0.00	0.00
7,760.0	10.99	43.72	7,645.5	906.1	825.0	1,225.4	0.00	0.00	0.00
7,800.0	10.99	43.72	7,684.7	911.6	830.3	1,233.1	0.00	0.00	0.00
7,840.0	10.99	43.72	7,724.0	917.1	835.5	1,240.7	0.00	0.00	0.00
7,880.0	10.99	43.72	7,763.3	922.7	840.8	1,248.3	0.00	0.00	0.00
7,920.0	10.99	43.72	7,802.5	928.2	846.1	1,255.9	0.00	0.00	0.00
7,960.0	10.99	43.72	7,841.8	933.7	851.4	1,263.5	0.00	0.00	0.00
8,000.0	10.99	43.72	7,881.1	939.2	856.6	1,271.2	0.00	0.00	0.00
8,040.0	10.99	43.72	7,920.3	944.7	861.9	1,278.8	0.00	0.00	0.00
8,080.0	10.99	43.72	7,959.6	950.2	867.2	1,286.4	0.00	0.00	0.00
8,120.0	10.99	43.72	7,998.9	955.7	872.4	1,294.0	0.00	0.00	0.00
8,160.0	10.99	43.72	8,038.1	961.2	877.7	1,301.7	0.00	0.00	0.00
8,200.0	10.99	43.72	8,077.4	966.7	883.0	1,309.3	0.00	0.00	0.00
8,223.0	10.99	43.72	8,100.0	969.9	886.0	1,313.7	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 41-10D
Wellbore: Wellbore #1
Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 41-10D
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)
DRILL TARGET BHL 541'FNL, 540'FEL									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PERMIT TARGET BH	0.00	0.00	5,800.0	1,021.9	942.0	1,364,993.45	3,144,542.61	40.334148	-104.981516
- plan misses target center by 513.3ft at 5979.7ft MD (5897.8 TVD, 660.9 N, 590.5 E)									
- Point									
DRILL TARGET BHL	0.00	0.00	8,100.0	969.9	886.0	1,364,941.12	3,144,486.87	40.334005	-104.981717
- plan hits target center									
- Point									
LEGAL BOX 400' X 400'	0.00	0.00	6,700.0	844.9	761.0	1,364,815.40	3,144,362.60	40.333662	-104.982165
- plan misses target center by 93.4ft at 6815.0ft MD (6717.8 TVD, 775.9 N, 700.5 E)									
- Rectangle (sides W400.0 H400.0 D1,400.0)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
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 41-10D

Wellbore #1

Plan #1 (7-12-11)

Anticollision Report

26 July, 2011

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Avex 41-10D
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 41-10D	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
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum center-center distance of 10,000.0ft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic

Survey Tool Program		Date	7/26/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	8,223.0	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	700.0	700.0	20.1	17.2	6.870	CC
SRC Avex 10C (Vert.) - Wellbore #1 - Design #1	800.0	800.0	20.2	16.9	6.006	ES
SRC Avex 10C (Vert.) - Wellbore #1 - Design #1	1,000.0	999.9	22.8	18.5	5.339	SF
SRC Avex 42-10D - Wellbore #1 - Plan #1 (7-12-11)	905.6	905.6	19.4	15.5	5.042	CC, ES
SRC Avex 42-10D - Wellbore #1 - Plan #1 (7-12-11)	1,000.0	999.5	20.6	16.3	4.841	SF

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
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 CC	
800.0	800.0	800.0	800.0	1.7	1.7	-102.43	0.0	-20.1	20.2	16.9	3.37	6.006 ES	
900.0	900.0	900.0	900.0	1.9	1.9	-109.43	0.0	-20.1	21.0	17.1	3.82	5.489	
1,000.0	999.9	999.9	999.9	2.1	2.1	-119.80	0.0	-20.1	22.8	18.5	4.27	5.339 SF	
1,100.0	1,099.7	1,099.7	1,099.7	2.4	2.4	-131.35	0.0	-20.1	26.4	21.6	4.72	5.586	
1,200.0	1,199.4	1,199.4	1,199.4	2.6	2.6	-141.88	0.0	-20.1	32.1	26.9	5.17	6.208	
1,300.0	1,298.9	1,298.9	1,298.9	2.8	2.8	-157.64	0.0	-20.1	40.1	34.5	5.61	7.150	
1,400.0	1,398.4	1,398.4	1,398.4	3.1	3.0	-168.15	0.0	-20.1	50.1	44.0	6.05	8.286	
1,500.0	1,497.7	1,497.7	1,497.7	3.3	3.3	-175.13	0.0	-20.1	61.7	55.2	6.48	9.522	
1,600.0	1,596.8	1,596.8	1,596.8	3.6	3.5	-179.81	0.0	-20.1	74.8	67.9	6.92	10.820	
1,700.0	1,695.8	1,695.8	1,695.8	3.9	3.7	177.04	0.0	-20.1	89.4	82.1	7.35	12.165	
1,800.0	1,794.4	1,794.4	1,794.4	4.2	3.9	174.90	0.0	-20.1	105.5	97.7	7.79	13.548	
1,900.0	1,892.9	1,892.9	1,892.9	4.6	4.1	173.45	0.0	-20.1	123.1	114.9	8.23	14.967	
1,936.5	1,928.7	1,928.7	1,928.7	4.7	4.2	173.05	0.0	-20.1	129.9	121.6	8.39	15.493	
2,000.0	1,991.1	1,991.1	1,991.1	4.9	4.4	173.64	0.0	-20.1	142.0	133.3	8.68	16.361	

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 41-10D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 41-10D
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		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)	Separation (ft)	Separation Factor		
2,100.0	2,089.2	2,089.2	2,089.2	5.3	4.6	174.39	0.0	-20.1	160.9	151.8	9.14	17.612		
2,200.0	2,187.4	2,187.4	2,187.4	5.6	4.8	174.99	0.0	-20.1	179.9	170.3	9.60	18.740		
2,300.0	2,285.6	2,285.6	2,285.6	6.0	5.0	175.47	0.0	-20.1	198.9	188.8	10.06	19.763		
2,400.0	2,383.7	2,383.7	2,383.7	6.4	5.2	175.86	0.0	-20.1	217.9	207.4	10.53	20.694		
2,500.0	2,481.9	2,481.9	2,481.9	6.8	5.5	176.20	0.0	-20.1	236.9	225.9	11.00	21.544		
2,600.0	2,580.1	2,580.1	2,580.1	7.2	5.7	176.48	0.0	-20.1	256.0	244.5	11.47	22.323		
2,700.0	2,678.2	2,678.2	2,678.2	7.6	5.9	176.72	0.0	-20.1	275.0	263.0	11.94	23.039		
2,800.0	2,776.4	2,776.4	2,776.4	8.0	6.1	176.93	0.0	-20.1	294.0	281.6	12.41	23.700		
2,900.0	2,874.6	2,874.6	2,874.6	8.4	6.3	177.12	0.0	-20.1	313.0	300.2	12.88	24.312		
3,000.0	2,972.7	2,972.7	2,972.7	8.8	6.6	177.29	0.0	-20.1	332.1	318.7	13.35	24.879		
3,100.0	3,070.9	3,070.9	3,070.9	9.2	6.8	177.43	0.0	-20.1	351.1	337.3	13.82	25.407		
3,200.0	3,169.1	3,169.1	3,169.1	9.6	7.0	177.57	0.0	-20.1	370.2	355.9	14.29	25.899		
3,300.0	3,267.2	3,267.2	3,267.2	10.0	7.2	177.68	0.0	-20.1	389.2	374.4	14.77	26.358		
3,400.0	3,365.4	3,365.4	3,365.4	10.4	7.5	177.79	0.0	-20.1	408.3	393.0	15.24	26.789		
3,500.0	3,463.6	3,463.6	3,463.6	10.8	7.7	177.89	0.0	-20.1	427.3	411.6	15.71	27.192		
3,600.0	3,561.7	3,561.7	3,561.7	11.2	7.9	177.98	0.0	-20.1	446.3	430.2	16.19	27.572		
3,700.0	3,659.9	3,659.9	3,659.9	11.6	8.1	178.06	0.0	-20.1	465.4	448.7	16.66	27.929		
3,800.0	3,758.1	3,758.1	3,758.1	12.0	8.3	178.14	0.0	-20.1	484.4	467.3	17.14	28.266		
3,900.0	3,856.2	3,856.2	3,856.2	12.5	8.6	178.21	0.0	-20.1	503.5	485.9	17.61	28.585		
4,000.0	3,954.4	3,954.4	3,954.4	12.9	8.8	178.28	0.0	-20.1	522.5	504.5	18.09	28.886		
4,100.0	4,052.6	4,052.6	4,052.6	13.3	9.0	178.34	0.0	-20.1	541.6	523.0	18.57	29.172		
4,200.0	4,150.7	4,150.7	4,150.7	13.7	9.2	178.39	0.0	-20.1	560.6	541.6	19.04	29.443		
4,300.0	4,248.9	4,248.9	4,248.9	14.1	9.4	178.45	0.0	-20.1	579.7	560.2	19.52	29.700		
4,400.0	4,347.1	4,347.1	4,347.1	14.5	9.7	178.50	0.0	-20.1	598.8	578.8	20.00	29.945		
4,500.0	4,445.2	4,445.2	4,445.2	14.9	9.9	178.54	0.0	-20.1	617.8	597.3	20.47	30.178		
4,600.0	4,543.4	4,543.4	4,543.4	15.4	10.1	178.59	0.0	-20.1	636.9	615.9	20.95	30.400		
4,700.0	4,641.6	4,641.6	4,641.6	15.8	10.3	178.63	0.0	-20.1	655.9	634.5	21.43	30.612		
4,800.0	4,739.7	4,739.7	4,739.7	16.2	10.5	178.67	0.0	-20.1	675.0	653.1	21.90	30.815		
4,900.0	4,837.9	4,837.9	4,837.9	16.6	10.8	178.70	0.0	-20.1	694.0	671.6	22.38	31.008		
5,000.0	4,936.1	4,936.1	4,936.1	17.0	11.0	178.74	0.0	-20.1	713.1	690.2	22.86	31.194		
5,100.0	5,034.2	5,034.2	5,034.2	17.4	11.2	178.77	0.0	-20.1	732.1	708.8	23.34	31.372		
5,200.0	5,132.4	5,132.4	5,132.4	17.8	11.4	178.80	0.0	-20.1	751.2	727.4	23.82	31.542		
5,300.0	5,230.6	5,230.6	5,230.6	18.3	11.6	178.83	0.0	-20.1	770.2	745.9	24.29	31.705		
5,400.0	5,328.7	5,328.7	5,328.7	18.7	11.9	178.86	0.0	-20.1	789.3	764.5	24.77	31.862		
5,500.0	5,426.9	5,426.9	5,426.9	19.1	12.1	178.89	0.0	-20.1	808.4	783.1	25.25	32.013		
5,600.0	5,525.1	5,525.1	5,525.1	19.5	12.3	178.91	0.0	-20.1	827.4	801.7	25.73	32.158		
5,700.0	5,623.2	5,623.2	5,623.2	19.9	12.5	178.94	0.0	-20.1	846.5	820.3	26.21	32.298		
5,800.0	5,721.4	5,721.4	5,721.4	20.3	12.7	178.96	0.0	-20.1	865.5	838.8	26.69	32.433		
5,900.0	5,819.6	5,819.6	5,819.6	20.8	13.0	178.98	0.0	-20.1	884.6	857.4	27.17	32.562		
6,000.0	5,917.7	5,917.7	5,917.7	21.2	13.2	179.00	0.0	-20.1	903.6	876.0	27.64	32.687		
6,100.0	6,015.9	6,015.9	6,015.9	21.6	13.4	179.02	0.0	-20.1	922.7	894.6	28.12	32.808		
6,200.0	6,114.1	6,114.1	6,114.1	22.0	13.6	179.04	0.0	-20.1	941.7	913.1	28.60	32.924		
6,300.0	6,212.2	6,212.2	6,212.2	22.4	13.9	179.06	0.0	-20.1	960.8	931.7	29.08	33.037		
6,400.0	6,310.4	6,310.4	6,310.4	22.9	14.1	179.08	0.0	-20.1	979.9	950.3	29.56	33.146		
6,500.0	6,408.6	6,408.6	6,408.6	23.3	14.3	179.10	0.0	-20.1	998.9	968.9	30.04	33.251		
6,600.0	6,506.7	6,506.7	6,506.7	23.7	14.5	179.12	0.0	-20.1	1,018.0	987.5	30.52	33.353		
6,700.0	6,604.9	6,604.9	6,604.9	24.1	14.7	179.13	0.0	-20.1	1,037.0	1,006.0	31.00	33.451		
6,800.0	6,703.1	6,703.1	6,703.1	24.5	15.0	179.15	0.0	-20.1	1,056.1	1,024.6	31.48	33.546		
6,900.0	6,801.2	6,801.2	6,801.2	25.0	15.2	179.16	0.0	-20.1	1,075.1	1,043.2	31.96	33.639		
7,000.0	6,899.4	6,899.4	6,899.4	25.4	15.4	179.18	0.0	-20.1	1,094.2	1,061.8	32.44	33.728		
7,100.0	6,997.6	6,997.6	6,997.6	25.8	15.6	179.19	0.0	-20.1	1,113.3	1,080.3	32.92	33.815		
7,200.0	7,095.7	7,095.7	7,095.7	26.2	15.8	179.20	0.0	-20.1	1,132.3	1,098.9	33.40	33.900		

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 41-10D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 41-10D
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		
7,300.0	7,193.9	7,193.9	7,193.9	26.6	16.1	179.22	0.0	-20.1	1,151.4	1,117.5	33.88	33.981		
7,400.0	7,292.1	7,292.1	7,292.1	27.0	16.3	179.23	0.0	-20.1	1,170.4	1,136.1	34.36	34.061		
7,500.0	7,390.2	7,390.2	7,390.2	27.5	16.5	179.24	0.0	-20.1	1,189.5	1,154.6	34.84	34.138		
7,600.0	7,488.4	7,488.4	7,488.4	27.9	16.7	179.25	0.0	-20.1	1,208.5	1,173.2	35.32	34.213		
7,700.0	7,586.6	7,586.6	7,586.6	28.3	16.9	179.27	0.0	-20.1	1,227.6	1,191.8	35.81	34.286		
7,800.0	7,684.7	7,684.7	7,684.7	28.7	17.2	179.28	0.0	-20.1	1,246.7	1,210.4	36.29	34.357		
7,900.0	7,782.9	7,782.9	7,782.9	29.1	17.4	179.29	0.0	-20.1	1,265.7	1,229.0	36.77	34.426		
8,000.0	7,881.1	7,881.1	7,881.1	29.6	17.6	179.30	0.0	-20.1	1,284.8	1,247.5	37.25	34.493		
8,100.0	7,979.2	7,979.2	7,979.2	30.0	17.8	179.31	0.0	-20.1	1,303.8	1,266.1	37.73	34.558		
8,200.0	8,077.4	8,077.4	8,077.4	30.4	18.0	179.32	0.0	-20.1	1,322.9	1,284.7	38.21	34.621		
8,223.0	8,100.0	8,100.0	8,100.0	30.5	18.1	179.32	0.0	-20.1	1,327.3	1,289.0	38.32	34.636		

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 41-10D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 41-10D
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 42-10D - 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							
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	87.88	0.7	19.8	19.8	19.8	0.00	N/A		
100.0	100.0	100.0	100.0	0.1	0.1	87.88	0.7	19.8	19.8	19.6	0.22	88.130		
200.0	200.0	200.0	200.0	0.3	0.3	87.88	0.7	19.8	19.8	19.1	0.67	29.377		
300.0	300.0	300.0	300.0	0.6	0.6	87.88	0.7	19.8	19.8	18.7	1.12	17.626		
400.0	400.0	400.0	400.0	0.8	0.8	87.88	0.7	19.8	19.8	18.2	1.57	12.590		
500.0	500.0	500.0	500.0	1.0	1.0	87.88	0.7	19.8	19.8	17.8	2.02	9.792		
600.0	600.0	600.0	600.0	1.2	1.2	87.88	0.7	19.8	19.8	17.3	2.47	8.012		
700.0	700.0	700.0	700.0	1.5	1.5	87.88	0.7	19.8	19.8	16.9	2.92	6.779		
800.0	800.0	800.0	800.0	1.7	1.7	80.37	0.7	19.8	19.6	16.3	3.37	5.828		
900.0	900.0	900.0	900.0	1.9	1.9	88.02	0.7	19.8	19.4	15.6	3.82	5.074		
905.6	905.6	905.6	905.6	1.9	1.9	88.61	0.7	19.8	19.4	15.5	3.84	5.042 CC, ES		
1,000.0	999.9	999.5	999.5	2.1	2.1	101.33	0.2	20.5	20.6	16.3	4.25	4.841SF		
1,100.0	1,099.7	1,098.8	1,098.8	2.4	2.3	116.43	-1.3	22.6	25.2	20.5	4.66	5.398		
1,200.0	1,199.4	1,197.8	1,197.7	2.6	2.5	128.15	-3.7	26.1	33.7	28.6	5.09	6.625		
1,300.0	1,298.9	1,296.3	1,296.0	2.8	2.7	127.61	-7.2	31.0	45.2	39.7	5.52	8.186		
1,400.0	1,398.4	1,394.5	1,393.9	3.1	2.9	126.53	-11.6	37.2	58.5	52.6	5.95	9.833		
1,500.0	1,497.7	1,492.2	1,491.2	3.3	3.1	125.41	-16.9	44.8	73.7	67.3	6.40	11.511		
1,600.0	1,596.8	1,589.5	1,587.9	3.6	3.4	124.39	-23.2	53.6	90.7	83.8	6.87	13.189		
1,700.0	1,695.8	1,686.3	1,683.8	3.9	3.6	123.50	-30.3	63.8	109.3	101.9	7.36	14.843		
1,800.0	1,794.4	1,782.5	1,779.0	4.2	3.9	122.74	-38.4	75.2	129.6	121.7	7.88	16.453		
1,900.0	1,892.9	1,879.9	1,875.2	4.6	4.2	122.29	-47.1	87.6	151.1	142.7	8.42	17.948		
1,936.5	1,928.7	1,915.4	1,910.3	4.7	4.3	122.23	-50.3	92.1	159.0	150.4	8.62	18.449		
2,000.0	1,991.1	1,977.3	1,971.4	4.9	4.5	123.46	-55.9	99.9	173.0	164.0	8.98	19.262		
2,100.0	2,089.2	2,074.7	2,067.7	5.3	4.9	125.03	-64.6	112.3	195.0	185.5	9.56	20.404		
2,200.0	2,187.4	2,172.1	2,163.9	5.6	5.2	126.28	-73.3	124.7	217.2	207.0	10.15	21.405		
2,300.0	2,285.6	2,269.5	2,260.1	6.0	5.5	127.30	-82.1	137.0	239.5	228.7	10.75	22.282		
2,400.0	2,383.7	2,366.9	2,356.3	6.4	5.8	128.15	-90.8	149.4	261.8	250.4	11.35	23.055		
2,500.0	2,481.9	2,464.3	2,452.6	6.8	6.2	128.86	-99.5	161.8	284.1	272.2	11.97	23.740		
2,600.0	2,580.1	2,561.8	2,548.8	7.2	6.5	129.47	-108.3	174.1	306.5	293.9	12.59	24.349		
2,700.0	2,678.2	2,659.2	2,645.0	7.6	6.9	130.00	-117.0	186.5	329.0	315.7	13.21	24.894		
2,800.0	2,776.4	2,756.6	2,741.3	8.0	7.2	130.46	-125.7	198.9	351.4	337.6	13.84	25.383		
2,900.0	2,874.6	2,854.0	2,837.5	8.4	7.6	130.86	-134.5	211.2	373.9	359.4	14.48	25.825		
3,000.0	2,972.7	2,951.4	2,933.7	8.8	7.9	131.22	-143.2	223.6	396.4	381.2	15.11	26.224		
3,100.0	3,070.9	3,048.8	3,029.9	9.2	8.3	131.54	-151.9	236.0	418.9	403.1	15.75	26.588		
3,200.0	3,169.1	3,146.2	3,126.2	9.6	8.6	131.83	-160.7	248.3	441.4	425.0	16.40	26.919		
3,300.0	3,267.2	3,243.6	3,222.4	10.0	9.0	132.08	-169.4	260.7	463.9	446.8	17.04	27.222		
3,400.0	3,365.4	3,341.0	3,318.6	10.4	9.3	132.32	-178.1	273.1	486.4	468.7	17.69	27.501		
3,500.0	3,463.6	3,438.5	3,414.9	10.8	9.7	132.53	-186.9	285.4	508.9	490.6	18.34	27.757		
3,600.0	3,561.7	3,535.9	3,511.1	11.2	10.0	132.73	-195.6	297.8	531.5	512.5	18.99	27.994		
3,700.0	3,659.9	3,633.3	3,607.3	11.6	10.4	132.91	-204.3	310.2	554.0	534.4	19.64	28.214		
3,800.0	3,758.1	3,730.7	3,703.5	12.0	10.7	133.08	-213.1	322.5	576.6	556.3	20.29	28.417		
3,900.0	3,856.2	3,828.1	3,799.8	12.5	11.1	133.23	-221.8	334.9	599.1	578.2	20.94	28.607		
4,000.0	3,954.4	3,925.5	3,896.0	12.9	11.5	133.37	-230.5	347.3	621.7	600.1	21.60	28.784		
4,100.0	4,052.6	4,022.9	3,992.2	13.3	11.8	133.51	-239.3	359.6	644.2	622.0	22.25	28.949		
4,200.0	4,150.7	4,120.3	4,088.4	13.7	12.2	133.63	-248.0	372.0	666.8	643.9	22.91	29.104		
4,300.0	4,248.9	4,217.7	4,184.7	14.1	12.5	133.75	-256.7	384.4	689.4	665.8	23.57	29.249		
4,400.0	4,347.1	4,315.2	4,280.9	14.5	12.9	133.85	-265.5	396.7	712.0	687.7	24.23	29.386		
4,500.0	4,445.2	4,412.6	4,377.1	14.9	13.3	133.96	-274.2	409.1	734.5	709.6	24.89	29.514		
4,600.0	4,543.4	4,510.0	4,473.4	15.4	13.6	134.05	-282.9	421.5	757.1	731.5	25.55	29.635		
4,700.0	4,641.6	4,607.4	4,569.6	15.8	14.0	134.14	-291.7	433.8	779.7	753.5	26.21	29.750		
4,800.0	4,739.7	4,704.8	4,665.8	16.2	14.3	134.23	-300.4	446.2	802.2	775.4	26.87	29.858		
4,900.0	4,837.9	4,802.2	4,762.0	16.6	14.7	134.31	-309.1	458.6	824.8	797.3	27.53	29.960		

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 41-10D
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #1 (7-12-11)

Local Co-ordinate Reference: Well SRC Avex 41-10D
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 42-10D - 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 Tooface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.0	4,936.1	4,899.6	4,858.3	17.0	15.1	134.38	-317.9	471.0	847.4	819.2	28.19	30.058		
5,100.0	5,034.2	4,997.0	4,954.5	17.4	15.4	134.45	-326.6	483.3	870.0	841.1	28.86	30.150		
5,200.0	5,132.4	5,094.5	5,050.7	17.8	15.8	134.52	-335.3	495.7	892.6	863.1	29.52	30.238		
5,300.0	5,230.6	5,191.9	5,146.9	18.3	16.2	134.59	-344.1	508.1	915.2	885.0	30.18	30.321		
5,400.0	5,328.7	5,289.3	5,243.2	18.7	16.5	134.65	-352.8	520.4	937.7	906.9	30.85	30.401		
5,500.0	5,426.9	5,386.7	5,339.4	19.1	16.9	134.71	-361.5	532.8	960.3	928.8	31.51	30.476		
5,600.0	5,525.1	5,484.1	5,435.6	19.5	17.3	134.76	-370.3	545.2	982.9	950.7	32.18	30.549		
5,700.0	5,623.2	5,581.5	5,531.9	19.9	17.6	134.82	-379.0	557.5	1,005.5	972.7	32.84	30.618		
5,800.0	5,721.4	5,678.9	5,628.1	20.3	18.0	134.87	-387.7	569.9	1,028.1	994.6	33.51	30.684		
5,900.0	5,819.6	5,776.3	5,724.3	20.8	18.3	134.92	-396.5	582.3	1,050.7	1,016.5	34.17	30.748		
6,000.0	5,917.7	5,873.7	5,820.5	21.2	18.7	134.97	-405.2	594.6	1,073.3	1,038.4	34.84	30.808		
6,100.0	6,015.9	5,971.2	5,916.8	21.6	19.1	135.01	-413.9	607.0	1,095.9	1,060.4	35.50	30.866		
6,200.0	6,114.1	6,068.6	6,013.0	22.0	19.4	135.05	-422.7	619.4	1,118.5	1,082.3	36.17	30.922		
6,300.0	6,212.2	6,166.0	6,109.2	22.4	19.8	135.10	-431.4	631.7	1,141.0	1,104.2	36.84	30.976		
6,400.0	6,310.4	6,263.4	6,205.4	22.9	20.2	135.14	-440.1	644.1	1,163.6	1,126.1	37.50	31.027		
6,500.0	6,408.6	6,360.8	6,301.7	23.3	20.5	135.17	-448.9	656.5	1,186.2	1,148.1	38.17	31.077		
6,600.0	6,506.7	6,458.2	6,397.9	23.7	20.9	135.21	-457.6	668.8	1,208.8	1,170.0	38.84	31.125		
6,700.0	6,604.9	6,555.6	6,494.1	24.1	21.3	135.25	-466.3	681.2	1,231.4	1,191.9	39.51	31.171		
6,800.0	6,703.1	6,653.0	6,590.4	24.5	21.6	135.28	-475.1	693.6	1,254.0	1,213.8	40.17	31.215		
6,900.0	6,801.2	6,750.4	6,686.6	25.0	22.0	135.32	-483.8	705.9	1,276.6	1,235.8	40.84	31.258		
7,000.0	6,899.4	6,847.9	6,782.8	25.4	22.4	135.35	-492.5	718.3	1,299.2	1,257.7	41.51	31.299		
7,100.0	6,997.6	6,945.3	6,879.0	25.8	22.7	135.38	-501.3	730.7	1,321.8	1,279.6	42.18	31.338		
7,200.0	7,095.7	7,042.7	6,975.3	26.2	23.1	135.41	-510.0	743.0	1,344.4	1,301.6	42.85	31.377		
7,300.0	7,193.9	7,140.1	7,071.5	26.6	23.4	135.44	-518.7	755.4	1,367.0	1,323.5	43.52	31.414		
7,400.0	7,292.1	7,237.5	7,167.7	27.0	23.8	135.46	-527.5	767.8	1,389.6	1,345.4	44.18	31.450		
7,500.0	7,390.2	7,334.9	7,263.9	27.5	24.2	135.49	-536.2	780.1	1,412.2	1,367.3	44.85	31.484		
7,600.0	7,488.4	7,432.3	7,360.2	27.9	24.5	135.52	-544.9	792.5	1,434.8	1,389.3	45.52	31.518		
7,700.0	7,586.6	7,529.7	7,456.4	28.3	24.9	135.54	-553.7	804.9	1,457.4	1,411.2	46.19	31.550		
7,800.0	7,684.7	7,627.1	7,552.6	28.7	25.3	135.57	-562.4	817.2	1,480.0	1,433.1	46.86	31.581		
7,900.0	7,782.9	7,724.6	7,648.9	29.1	25.6	135.59	-571.1	829.6	1,502.6	1,455.0	47.53	31.612		
8,000.0	7,881.1	7,822.0	7,745.1	29.6	26.0	135.62	-579.9	842.0	1,525.2	1,477.0	48.20	31.641		
8,100.0	7,979.2	7,919.4	7,841.3	30.0	26.4	135.64	-588.6	854.3	1,547.8	1,498.9	48.87	31.670		
8,200.0	8,077.4	8,016.8	7,937.5	30.4	26.7	135.66	-597.3	866.7	1,570.4	1,520.8	49.54	31.698		
8,223.0	8,100.0	8,039.2	7,959.7	30.5	26.8	135.66	-599.3	869.6	1,575.6	1,525.9	49.70	31.704		

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Output errors are at: 2.00 sigma
Database: Landmark
Offset TVD Reference: Offset Datum

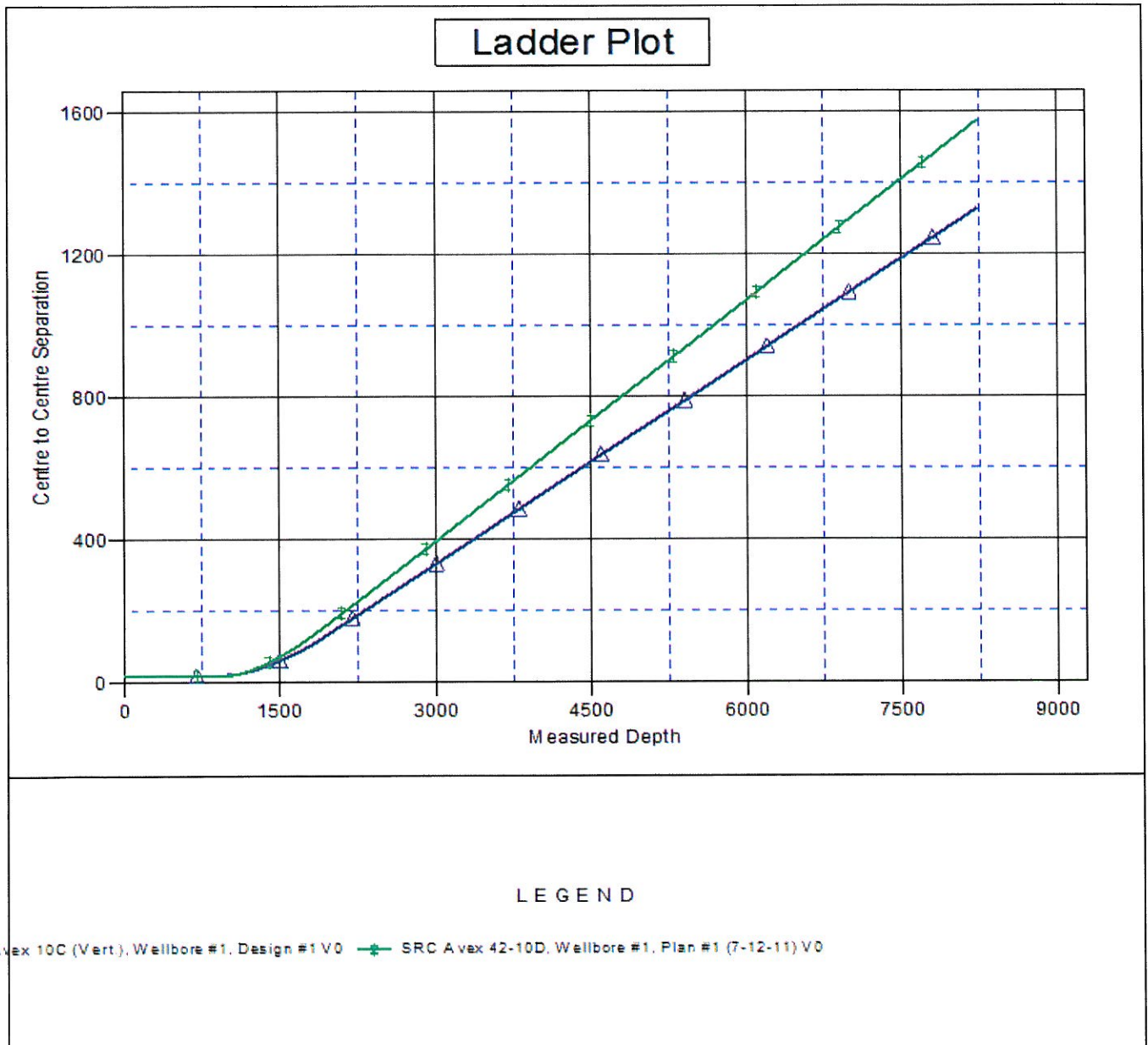
Reference Depths are relative to WELL @ 5051.0ft (Original Well Elev) Coordinates are relative to: SRC Avex 41-10D

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°



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Project: SEC.10-T4N-R68W
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