

Synergy Resources

Well Name: **SRC Kelly Farms 22-4-3NHZ**

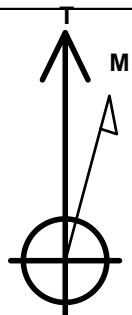
Surface Location: SRC Kelly Farms Pad Sec.4-T5N-R66W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4751.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1400833.70	3199156.62	40.431485	-104.784582	

Ensign Rig #131 - RKB -13.5' WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
SHL 2144'FNL & 2375'FWL, Sec. 4	1.0	0.0	0.0	Point
BHL 2077'FNL & 2118'FWL, Sec. 3	7051.0	68.7	5097.6	Point
Landing Pt. 2077'FNL & 2223'FEL, Sec.4	7051.0	74.3	749.2	Point



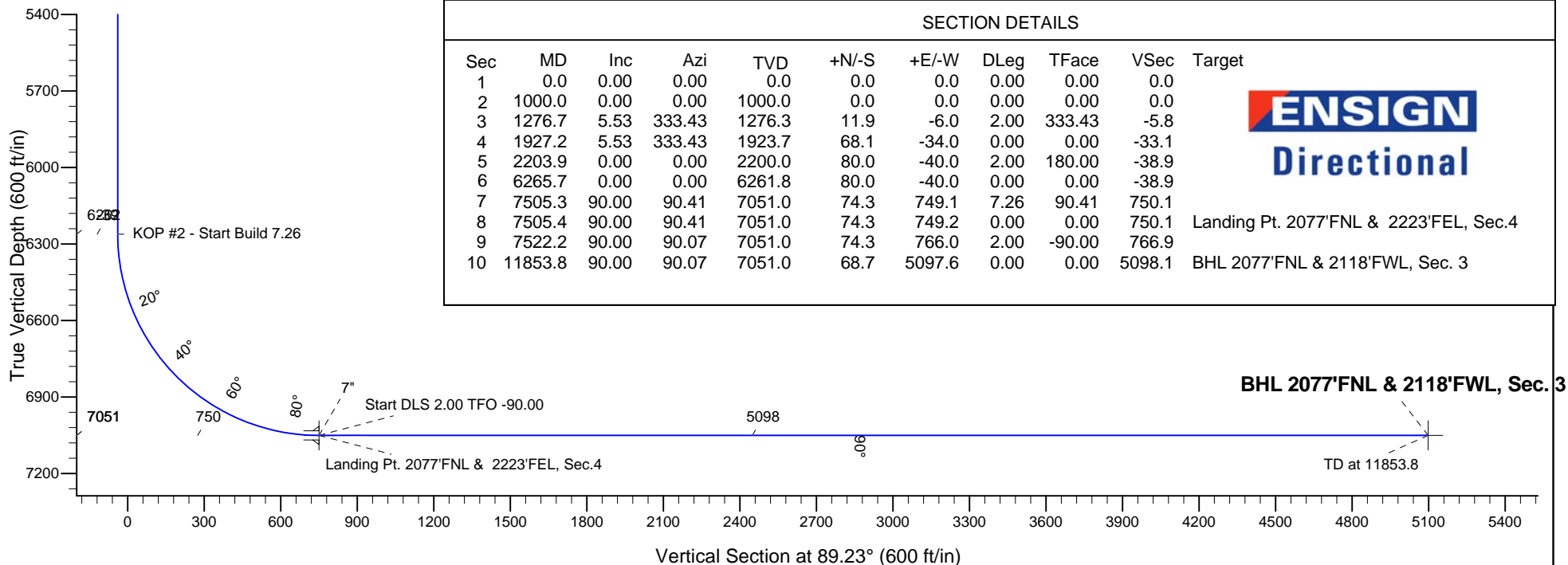
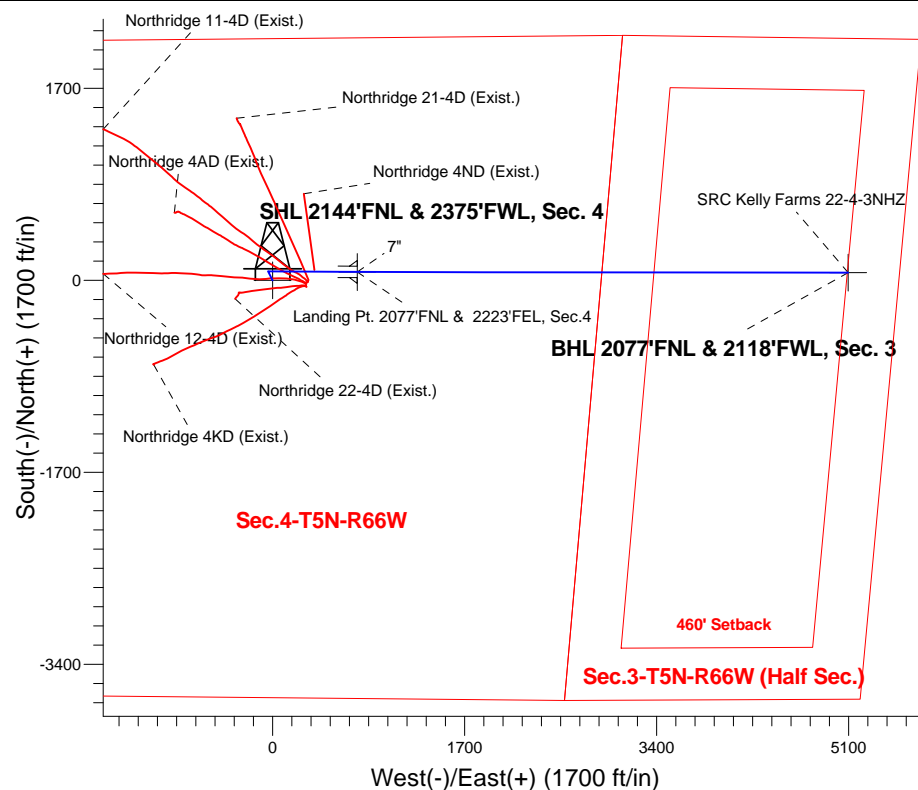
Azimuths to True North
Magnetic North: 8.49°

Magnetic Field
Strength: 52843.8nT
Dip Angle: 66.97°
Date: 4/29/2014
Model: IGRF2010

SRC Kelly Farms Pad Sec.4-T5N-R66W
SRC Kelly Farms 22-4-3NHZ
Plan #2 (4-21-14)
15:53, April 29 2014

ANNOTATIONS

TVD	MD	Annotation
1000.0	1000.0	KOP - Start Build 2.00
1923.7	1927.2	Start Drop -2.00
6261.8	6265.7	KOP #2 - Start Build 7.26
7051.0	7505.4	Start DLS 2.00 TFO -90.00
7051.0	11853.8	TD at 11853.8





Synergy Resources

SEC.4-T5N-R66W

SRC Kelly Farms Pad Sec.4-T5N-R66W

SRC Kelly Farms 22-4-3NHZ

Wellbore #1

Plan: Plan #2 (4-21-14)

Standard Planning Report

29 April, 2014

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Company:	Synergy Resources	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Project:	SEC.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	North Reference:	True
Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (4-21-14)		

Project	SEC.4-T5N-R66W, 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 Kelly Farms Pad Sec.4-T5N-R66W											
Site Position:						Northing:			1,400,891.57 ft			Latitude:			40.431645		
From:			Lat/Long			Easting:			3,199,103.54 ft			Longitude:			-104.784771		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.46 °		

Well	SRC Kelly Farms 22-4-3NHZ					
Well Position	+N-S	-58.3 ft	Northing:	1,400,833.70 ft	Latitude:	40.431485
	+E-W	52.6 ft	Easting:	3,199,156.62 ft	Longitude:	-104.784582
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,751.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/29/2014	8.49	66.97	52,844

Design	Plan #2 (4-21-14)			
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	89.23

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,276.7	5.53	333.43	1,276.3	11.9	-6.0	2.00	2.00	0.00	333.43	
1,927.2	5.53	333.43	1,923.7	68.1	-34.0	0.00	0.00	0.00	0.00	
2,203.9	0.00	0.00	2,200.0	80.0	-40.0	2.00	-2.00	0.00	180.00	
6,265.7	0.00	0.00	6,261.8	80.0	-40.0	0.00	0.00	0.00	0.00	
7,505.3	90.00	90.41	7,051.0	74.3	749.1	7.26	7.26	0.00	90.41	
7,505.4	90.00	90.41	7,051.0	74.3	749.2	0.00	0.00	0.00	0.00	Landing Pt. 2077'Ft
7,522.2	90.00	90.07	7,051.0	74.3	766.0	2.00	0.00	-2.00	-90.00	
11,853.8	90.00	90.07	7,051.0	68.7	5,097.6	0.00	0.00	0.00	0.00	BHL 2077'FNL & 21

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
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Project:	SEC.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	North Reference:	True
Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (4-21-14)		

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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 2144'FNL & 2375'FWL, Sec. 4									
100.0	0.00	0.00	100.0	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
300.0	0.00	0.00	300.0	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
500.0	0.00	0.00	500.0	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
700.0	0.00	0.00	700.0	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
900.0	0.00	0.00	900.0	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
KOP - Start Build 2.00									
1,100.0	2.00	333.43	1,100.0	1.6	-0.8	-0.8	2.00	2.00	0.00
1,200.0	4.00	333.43	1,199.8	6.2	-3.1	-3.0	2.00	2.00	0.00
1,276.7	5.53	333.43	1,276.3	11.9	-6.0	-5.8	2.00	2.00	0.00
1,300.0	5.53	333.43	1,299.5	14.0	-7.0	-6.8	0.00	0.00	0.00
1,400.0	5.53	333.43	1,399.0	22.6	-11.3	-11.0	0.00	0.00	0.00
1,500.0	5.53	333.43	1,498.5	31.2	-15.6	-15.2	0.00	0.00	0.00
1,600.0	5.53	333.43	1,598.1	39.8	-19.9	-19.4	0.00	0.00	0.00
1,700.0	5.53	333.43	1,697.6	48.5	-24.2	-23.6	0.00	0.00	0.00
1,800.0	5.53	333.43	1,797.1	57.1	-28.5	-27.8	0.00	0.00	0.00
1,900.0	5.53	333.43	1,896.7	65.7	-32.9	-32.0	0.00	0.00	0.00
1,927.2	5.53	333.43	1,923.7	68.1	-34.0	-33.1	0.00	0.00	0.00
Start Drop -2.00									
2,000.0	4.08	333.43	1,996.3	73.5	-36.8	-35.8	2.00	-2.00	0.00
2,100.0	2.08	333.43	2,096.1	78.3	-39.2	-38.1	2.00	-2.00	0.00
2,200.0	0.08	333.43	2,196.1	80.0	-40.0	-38.9	2.00	-2.00	0.00
2,203.9	0.00	0.00	2,200.0	80.0	-40.0	-38.9	2.00	-2.00	0.00
2,300.0	0.00	0.00	2,296.1	80.0	-40.0	-38.9	0.00	0.00	0.00
2,400.0	0.00	0.00	2,396.1	80.0	-40.0	-38.9	0.00	0.00	0.00
2,500.0	0.00	0.00	2,496.1	80.0	-40.0	-38.9	0.00	0.00	0.00
2,600.0	0.00	0.00	2,596.1	80.0	-40.0	-38.9	0.00	0.00	0.00
2,700.0	0.00	0.00	2,696.1	80.0	-40.0	-38.9	0.00	0.00	0.00
2,800.0	0.00	0.00	2,796.1	80.0	-40.0	-38.9	0.00	0.00	0.00
2,900.0	0.00	0.00	2,896.1	80.0	-40.0	-38.9	0.00	0.00	0.00
3,000.0	0.00	0.00	2,996.1	80.0	-40.0	-38.9	0.00	0.00	0.00
3,100.0	0.00	0.00	3,096.1	80.0	-40.0	-38.9	0.00	0.00	0.00
3,200.0	0.00	0.00	3,196.1	80.0	-40.0	-38.9	0.00	0.00	0.00
3,300.0	0.00	0.00	3,296.1	80.0	-40.0	-38.9	0.00	0.00	0.00
3,400.0	0.00	0.00	3,396.1	80.0	-40.0	-38.9	0.00	0.00	0.00
3,500.0	0.00	0.00	3,496.1	80.0	-40.0	-38.9	0.00	0.00	0.00
3,600.0	0.00	0.00	3,596.1	80.0	-40.0	-38.9	0.00	0.00	0.00
3,700.0	0.00	0.00	3,696.1	80.0	-40.0	-38.9	0.00	0.00	0.00
3,800.0	0.00	0.00	3,796.1	80.0	-40.0	-38.9	0.00	0.00	0.00
3,900.0	0.00	0.00	3,896.1	80.0	-40.0	-38.9	0.00	0.00	0.00
4,000.0	0.00	0.00	3,996.1	80.0	-40.0	-38.9	0.00	0.00	0.00
4,100.0	0.00	0.00	4,096.1	80.0	-40.0	-38.9	0.00	0.00	0.00
4,200.0	0.00	0.00	4,196.1	80.0	-40.0	-38.9	0.00	0.00	0.00
4,300.0	0.00	0.00	4,296.1	80.0	-40.0	-38.9	0.00	0.00	0.00
4,400.0	0.00	0.00	4,396.1	80.0	-40.0	-38.9	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
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Project:	SEC.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	North Reference:	True
Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (4-21-14)		

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)
4,500.0	0.00	0.00	4,496.1	80.0	-40.0	-38.9	0.00	0.00	0.00
4,600.0	0.00	0.00	4,596.1	80.0	-40.0	-38.9	0.00	0.00	0.00
4,700.0	0.00	0.00	4,696.1	80.0	-40.0	-38.9	0.00	0.00	0.00
4,800.0	0.00	0.00	4,796.1	80.0	-40.0	-38.9	0.00	0.00	0.00
4,900.0	0.00	0.00	4,896.1	80.0	-40.0	-38.9	0.00	0.00	0.00
5,000.0	0.00	0.00	4,996.1	80.0	-40.0	-38.9	0.00	0.00	0.00
5,100.0	0.00	0.00	5,096.1	80.0	-40.0	-38.9	0.00	0.00	0.00
5,200.0	0.00	0.00	5,196.1	80.0	-40.0	-38.9	0.00	0.00	0.00
5,300.0	0.00	0.00	5,296.1	80.0	-40.0	-38.9	0.00	0.00	0.00
5,400.0	0.00	0.00	5,396.1	80.0	-40.0	-38.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,496.1	80.0	-40.0	-38.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,596.1	80.0	-40.0	-38.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,696.1	80.0	-40.0	-38.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,796.1	80.0	-40.0	-38.9	0.00	0.00	0.00
5,900.0	0.00	0.00	5,896.1	80.0	-40.0	-38.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,996.1	80.0	-40.0	-38.9	0.00	0.00	0.00
6,100.0	0.00	0.00	6,096.1	80.0	-40.0	-38.9	0.00	0.00	0.00
6,200.0	0.00	0.00	6,196.1	80.0	-40.0	-38.9	0.00	0.00	0.00
6,265.7	0.00	0.00	6,261.8	80.0	-40.0	-38.9	0.00	0.00	0.00
KOP #2 - Start Build 7.26									
6,300.0	2.49	90.41	6,296.1	80.0	-39.3	-38.2	7.25	7.25	0.00
6,400.0	9.75	90.41	6,395.5	79.9	-28.6	-27.5	7.26	7.26	0.00
6,500.0	17.01	90.41	6,492.7	79.8	-5.5	-4.4	7.26	7.26	0.00
6,600.0	24.27	90.41	6,586.2	79.5	29.7	30.8	7.26	7.26	0.00
6,700.0	31.53	90.41	6,674.5	79.2	76.5	77.6	7.26	7.26	0.00
6,800.0	38.79	90.41	6,756.2	78.8	134.0	135.1	7.26	7.26	0.00
6,900.0	46.05	90.41	6,830.0	78.3	201.4	202.5	7.26	7.26	0.00
7,000.0	53.31	90.41	6,894.7	77.7	277.6	278.7	7.26	7.26	0.00
7,100.0	60.57	90.41	6,949.2	77.1	361.4	362.4	7.26	7.26	0.00
7,200.0	67.83	90.41	6,992.7	76.5	451.4	452.4	7.26	7.26	0.00
7,300.0	75.09	90.41	7,024.4	75.8	546.1	547.1	7.26	7.26	0.00
7,400.0	82.35	90.41	7,044.0	75.1	644.1	645.1	7.26	7.26	0.00
7,500.0	89.61	90.41	7,051.0	74.4	743.8	744.7	7.26	7.26	0.00
7,505.4	90.00	90.41	7,051.0	74.3	749.2	750.1	7.18	7.18	0.00
Start DLS 2.00 TFO -90.00 - 7" - Landing Pt. 2077'FNL & 2223'FEL, Sec.4									
7,522.2	90.00	90.07	7,051.0	74.3	766.0	766.9	2.00	0.02	-2.00
7,600.0	90.00	90.07	7,051.0	74.2	843.8	844.7	0.00	0.00	0.00
7,700.0	90.00	90.07	7,051.0	74.0	943.8	944.7	0.00	0.00	0.00
7,800.0	90.00	90.07	7,051.0	73.9	1,043.8	1,044.7	0.00	0.00	0.00
7,900.0	90.00	90.07	7,051.0	73.8	1,143.8	1,144.7	0.00	0.00	0.00
8,000.0	90.00	90.07	7,051.0	73.7	1,243.8	1,244.7	0.00	0.00	0.00
8,100.0	90.00	90.07	7,051.0	73.5	1,343.8	1,344.7	0.00	0.00	0.00
8,200.0	90.00	90.07	7,051.0	73.4	1,443.8	1,444.7	0.00	0.00	0.00
8,300.0	90.00	90.07	7,051.0	73.3	1,543.8	1,544.6	0.00	0.00	0.00
8,400.0	90.00	90.07	7,051.0	73.1	1,643.8	1,644.6	0.00	0.00	0.00
8,500.0	90.00	90.07	7,051.0	73.0	1,743.8	1,744.6	0.00	0.00	0.00
8,600.0	90.00	90.07	7,051.0	72.9	1,843.8	1,844.6	0.00	0.00	0.00
8,700.0	90.00	90.07	7,051.0	72.7	1,943.8	1,944.6	0.00	0.00	0.00
8,800.0	90.00	90.07	7,051.0	72.6	2,043.8	2,044.6	0.00	0.00	0.00
8,900.0	90.00	90.07	7,051.0	72.5	2,143.8	2,144.6	0.00	0.00	0.00
9,000.0	90.00	90.07	7,051.0	72.4	2,243.8	2,244.6	0.00	0.00	0.00
9,100.0	90.00	90.07	7,051.0	72.2	2,343.8	2,344.6	0.00	0.00	0.00

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Project:	SEC.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	North Reference:	True
Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 (4-21-14)		

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)
9,200.0	90.00	90.07	7,051.0	72.1	2,443.8	2,444.5	0.00	0.00	0.00
9,300.0	90.00	90.07	7,051.0	72.0	2,543.8	2,544.5	0.00	0.00	0.00
9,400.0	90.00	90.07	7,051.0	71.8	2,643.8	2,644.5	0.00	0.00	0.00
9,500.0	90.00	90.07	7,051.0	71.7	2,743.8	2,744.5	0.00	0.00	0.00
9,600.0	90.00	90.07	7,051.0	71.6	2,843.8	2,844.5	0.00	0.00	0.00
9,700.0	90.00	90.07	7,051.0	71.5	2,943.8	2,944.5	0.00	0.00	0.00
9,800.0	90.00	90.07	7,051.0	71.3	3,043.8	3,044.5	0.00	0.00	0.00
9,900.0	90.00	90.07	7,051.0	71.2	3,143.8	3,144.5	0.00	0.00	0.00
10,000.0	90.00	90.07	7,051.0	71.1	3,243.8	3,244.5	0.00	0.00	0.00
10,100.0	90.00	90.07	7,051.0	70.9	3,343.8	3,344.4	0.00	0.00	0.00
10,200.0	90.00	90.07	7,051.0	70.8	3,443.8	3,444.4	0.00	0.00	0.00
10,300.0	90.00	90.07	7,051.0	70.7	3,543.8	3,544.4	0.00	0.00	0.00
10,400.0	90.00	90.07	7,051.0	70.5	3,643.8	3,644.4	0.00	0.00	0.00
10,500.0	90.00	90.07	7,051.0	70.4	3,743.8	3,744.4	0.00	0.00	0.00
10,600.0	90.00	90.07	7,051.0	70.3	3,843.8	3,844.4	0.00	0.00	0.00
10,700.0	90.00	90.07	7,051.0	70.2	3,943.8	3,944.4	0.00	0.00	0.00
10,800.0	90.00	90.07	7,051.0	70.0	4,043.8	4,044.4	0.00	0.00	0.00
10,900.0	90.00	90.07	7,051.0	69.9	4,143.8	4,144.4	0.00	0.00	0.00
11,000.0	90.00	90.07	7,051.0	69.8	4,243.8	4,244.3	0.00	0.00	0.00
11,100.0	90.00	90.07	7,051.0	69.6	4,343.8	4,344.3	0.00	0.00	0.00
11,200.0	90.00	90.07	7,051.0	69.5	4,443.8	4,444.3	0.00	0.00	0.00
11,300.0	90.00	90.07	7,051.0	69.4	4,543.8	4,544.3	0.00	0.00	0.00
11,400.0	90.00	90.07	7,051.0	69.3	4,643.8	4,644.3	0.00	0.00	0.00
11,500.0	90.00	90.07	7,051.0	69.1	4,743.8	4,744.3	0.00	0.00	0.00
11,600.0	90.00	90.07	7,051.0	69.0	4,843.8	4,844.3	0.00	0.00	0.00
11,700.0	90.00	90.07	7,051.0	68.9	4,943.8	4,944.3	0.00	0.00	0.00
11,800.0	90.00	90.07	7,051.0	68.7	5,043.8	5,044.3	0.00	0.00	0.00
11,853.8	90.00	90.07	7,051.0	68.7	5,097.6	5,098.1	0.00	0.00	0.00
TD at 11853.8 - BHL 2077'FNL & 2118'FWL, Sec. 3									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,505.4	7,051.0	7"	7	7-1/2

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,000.0	1,000.0	0.0	0.0	KOP - Start Build 2.00
1,927.2	1,923.7	68.1	-34.0	Start Drop -2.00
6,265.7	6,261.8	80.0	-40.0	KOP #2 - Start Build 7.26
7,505.4	7,051.0	74.3	749.2	Start DLS 2.00 TFO -90.00
11,853.8	7,051.0	68.7	5,097.6	TD at 11853.8



Synergy Resources

SEC.4-T5N-R66W

SRC Kelly Farms Pad Sec.4-T5N-R66W

SRC Kelly Farms 22-4-3NHZ

Wellbore #1

Plan #2 (4-21-14)

Anticollision Report

29 April, 2014

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Northridge Pad Sec.4-T5N-R66W - Northridge 11-4D (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.0 ft	
Survey Program: 147-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	91.87	-10.2	311.8	312.2					
100.0	100.0	84.4	84.4	0.1	0.1	91.96	-10.7	312.3	312.5	312.3	0.21	1,489.134		
200.0	200.0	185.8	185.8	0.3	0.2	92.23	-12.2	314.0	314.3	313.7	0.58	537.617		
300.0	300.0	297.8	297.7	0.6	0.5	92.16	-11.8	312.8	313.1	312.1	1.04	300.855		
400.0	400.0	406.5	406.3	0.8	0.7	91.42	-7.7	308.1	308.7	307.2	1.51	204.378		
500.0	500.0	518.8	517.9	1.0	1.0	89.87	0.7	299.6	301.0	299.0	2.01	150.069		
600.0	600.0	627.4	625.2	1.2	1.3	87.56	12.2	287.2	289.8	287.3	2.51	115.435		
700.0	700.0	730.0	726.0	1.5	1.7	84.97	24.0	272.6	276.2	273.2	3.00	92.054		
800.0	800.0	826.5	821.0	1.7	2.1	82.40	34.6	259.2	263.5	260.1	3.46	76.223		
900.0	900.0	931.7	924.1	1.9	2.5	78.71	48.6	243.4	250.7	246.7	3.98	62.999		
1,000.0	1,000.0	1,042.1	1,031.5	2.1	3.0	74.42	61.9	221.8	234.3	229.7	4.56	51.336		
1,100.0	1,100.0	1,144.9	1,130.5	2.4	3.5	96.65	74.8	197.2	215.2	209.6	5.59	38.483		
1,200.0	1,199.8	1,243.5	1,224.3	2.6	4.1	91.71	89.7	171.0	196.4	190.0	6.39	30.743		
1,300.0	1,299.5	1,340.3	1,315.2	2.8	4.7	85.43	107.9	143.3	179.3	171.9	7.31	24.526		
1,400.0	1,399.0	1,433.1	1,401.6	3.1	5.4	77.49	127.7	115.8	165.5	157.2	8.33	19.876		
1,500.0	1,498.5	1,527.9	1,488.8	3.3	6.1	67.21	151.3	86.9	157.9	148.5	9.40	16.803		
1,582.0	1,580.1	1,606.3	1,560.6	3.5	6.7	58.02	170.9	62.4	155.9	145.6	10.23	15.236 CC		
1,600.0	1,598.1	1,623.4	1,576.2	3.6	6.9	55.92	175.2	56.8	156.0	145.6	10.40	15.003 ES		
1,700.0	1,697.6	1,716.2	1,660.3	3.8	7.7	44.41	199.4	25.8	161.1	149.9	11.20	14.391 SF		
1,800.0	1,797.1	1,813.7	1,748.4	4.1	8.5	33.18	224.6	-7.5	172.9	161.2	11.75	14.716		
1,900.0	1,896.7	1,906.1	1,831.8	4.3	9.3	23.68	247.2	-40.3	189.3	177.2	12.10	15.645		
2,000.0	1,996.3	1,995.4	1,911.9	4.6	10.1	15.98	270.2	-72.2	212.8	200.4	12.34	17.243		
2,100.0	2,096.1	2,090.2	1,997.0	4.8	10.9	9.40	295.4	-105.7	243.4	230.9	12.48	19.507		
2,200.0	2,196.1	2,175.9	2,073.9	5.0	11.7	4.51	317.5	-136.2	279.1	266.5	12.61	22.132		
2,300.0	2,296.1	2,257.3	2,146.3	5.1	12.4	-25.72	340.7	-165.5	320.7	304.2	16.45	19.498		
2,400.0	2,396.1	2,351.3	2,229.7	5.4	13.3	-28.54	369.7	-197.5	364.3	346.7	17.66	20.627		
2,500.0	2,496.1	2,456.1	2,324.0	5.6	14.1	-31.42	397.5	-233.9	405.2	386.3	18.92	21.411		
2,600.0	2,596.1	2,544.1	2,403.5	5.8	14.9	-33.70	418.0	-265.5	444.9	424.9	20.01	22.236		
2,700.0	2,696.1	2,628.9	2,479.6	6.0	15.7	-35.54	439.0	-296.5	486.5	465.4	21.06	23.102		
2,800.0	2,796.1	2,708.6	2,551.0	6.2	16.4	-36.90	459.8	-325.2	529.3	507.2	22.06	23.987		
2,900.0	2,896.1	2,768.0	2,603.5	6.4	17.0	-37.68	477.2	-346.8	575.2	552.3	22.87	25.149		
3,000.0	2,996.1	2,841.2	2,667.1	6.6	17.7	-38.44	501.0	-374.2	624.3	600.4	23.89	26.129		
3,100.0	3,096.1	2,927.4	2,740.8	6.9	18.6	-39.17	531.0	-407.4	675.7	650.7	25.05	26.975		
3,200.0	3,196.1	3,066.9	2,863.0	7.1	19.9	-40.22	574.8	-458.3	723.4	696.7	26.64	27.153		
3,300.0	3,296.1	3,145.8	2,933.2	7.3	20.7	-40.67	598.4	-485.4	768.5	740.9	27.59	27.851		
3,400.0	3,396.1	3,242.6	3,019.3	7.5	21.5	-41.12	627.9	-518.3	813.9	785.2	28.72	28.342		
3,500.0	3,496.1	3,397.1	3,159.5	7.7	22.8	-41.89	669.2	-568.5	855.7	825.5	30.23	28.305		
3,600.0	3,596.1	3,479.1	3,235.2	8.0	23.4	-42.32	688.1	-593.6	893.5	862.4	31.11	28.721		
3,700.0	3,696.1	3,556.8	3,306.1	8.2	24.1	-42.68	707.6	-618.6	933.7	901.8	31.97	29.209		
3,800.0	3,796.1	3,684.4	3,423.2	8.4	25.1	-43.13	739.5	-657.9	973.3	940.1	33.20	29.314		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Northridge Pad Sec.4-T5N-R66W - Northridge 12-4D (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0ft
Survey Program: 182-MWD													Offset Well Error:	0.0ft
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	95.90	-31.0	299.8	301.6					
100.0	100.0	89.1	89.1	0.1	0.1	95.89	-30.9	299.9	301.5	301.3	0.21	1,418.262		
200.0	200.0	188.8	188.8	0.3	0.2	95.86	-30.8	300.1	301.7	301.1	0.56	543.158		
300.0	300.0	291.4	291.4	0.6	0.4	95.97	-31.4	300.0	301.6	300.6	0.99	304.940		
400.0	400.0	401.4	401.4	0.8	0.7	95.83	-30.4	297.9	299.7	298.2	1.45	207.361		
500.0	500.0	521.2	520.8	1.0	0.9	95.23	-26.5	289.7	292.6	290.7	1.95	149.899		
600.0	600.0	629.5	628.1	1.2	1.2	94.39	-21.2	276.3	279.8	277.4	2.45	114.422		
700.0	700.0	734.5	731.8	1.5	1.6	93.21	-14.6	261.1	264.9	262.0	2.92	90.683		
800.0	800.0	835.7	831.5	1.7	1.9	91.98	-8.5	244.8	248.5	245.1	3.38	73.491		
900.0	900.0	938.2	932.3	1.9	2.3	90.77	-3.0	226.9	230.9	227.1	3.85	59.984		
1,000.0	1,000.0	1,038.5	1,030.5	2.1	2.7	89.00	3.6	207.8	211.8	207.5	4.32	49.028		
1,100.0	1,100.0	1,136.9	1,126.9	2.4	3.1	114.59	9.2	188.6	193.2	188.3	4.87	39.680		
1,200.0	1,199.8	1,240.4	1,228.0	2.6	3.6	115.00	13.2	167.1	174.7	169.4	5.35	32.661		
1,300.0	1,299.5	1,344.0	1,328.6	2.8	4.1	116.85	16.3	142.2	154.3	148.5	5.84	26.439		
1,400.0	1,399.0	1,439.7	1,421.1	3.1	4.5	119.84	17.7	118.1	133.6	127.3	6.28	21.280		
1,500.0	1,498.5	1,534.3	1,513.2	3.3	4.9	124.78	16.8	96.4	115.7	109.0	6.69	17.300		
1,600.0	1,598.1	1,637.2	1,612.9	3.6	5.4	131.74	16.8	71.0	97.2	90.0	7.18	13.526		
1,700.0	1,697.6	1,735.4	1,707.3	3.8	6.0	142.09	17.0	44.0	77.8	70.0	7.85	9.919		
1,800.0	1,797.1	1,833.4	1,801.0	4.1	6.5	159.37	17.3	15.0	60.7	51.7	8.99	6.747		
1,900.0	1,896.7	1,929.3	1,891.9	4.3	7.1	-173.80	18.0	-15.2	51.2	40.4	10.79	4.747		
1,909.0	1,905.7	1,937.7	1,899.9	4.4	7.2	-171.04	17.9	-17.9	51.2	40.2	10.96	4.669 CC, ES, SF		
2,000.0	1,996.3	2,023.1	1,980.8	4.6	7.7	-144.97	15.7	-45.1	58.7	46.5	12.18	4.819		
2,100.0	2,096.1	2,118.0	2,070.5	4.8	8.3	-123.96	12.3	-75.9	77.0	64.4	12.62	6.104		
2,200.0	2,196.1	2,211.6	2,158.0	5.0	9.0	-108.44	10.8	-109.1	101.6	89.0	12.62	8.052		
2,300.0	2,296.1	2,307.2	2,247.1	5.1	9.6	-123.83	10.6	-143.6	130.5	117.3	13.20	9.891		
2,400.0	2,396.1	2,405.9	2,339.8	5.4	10.3	-115.78	13.6	-177.5	159.4	145.0	14.46	11.027		
2,500.0	2,496.1	2,500.1	2,428.7	5.6	10.9	-110.32	17.6	-208.5	188.5	172.9	15.53	12.136		
2,600.0	2,596.1	2,590.9	2,513.9	5.8	11.5	-106.48	20.9	-239.6	220.2	203.6	16.53	13.321		
2,700.0	2,696.1	2,679.7	2,596.9	6.0	12.1	-103.51	24.5	-270.8	253.4	235.9	17.51	14.472		
2,800.0	2,796.1	2,758.8	2,669.8	6.2	12.8	-101.49	26.8	-301.5	291.0	272.5	18.43	15.787		
2,900.0	2,896.1	2,838.3	2,741.7	6.4	13.5	-99.86	28.6	-335.4	332.5	313.1	19.41	17.133		
3,000.0	2,996.1	2,939.8	2,833.6	6.6	14.3	-98.33	30.4	-378.5	374.3	353.8	20.54	18.224		
3,100.0	3,096.1	3,025.0	2,911.1	6.9	15.0	-97.12	33.3	-413.7	415.1	393.6	21.49	19.314		
3,200.0	3,196.1	3,108.9	2,986.8	7.1	15.8	-95.92	37.5	-449.5	457.2	434.7	22.49	20.328		
3,300.0	3,296.1	3,222.8	3,090.1	7.3	16.7	-94.76	42.0	-497.3	498.8	475.1	23.71	21.038		
3,400.0	3,396.1	3,321.2	3,180.7	7.5	17.5	-93.94	45.9	-535.7	537.5	512.8	24.71	21.754		
3,500.0	3,496.1	3,430.1	3,281.6	7.7	18.3	-93.53	46.9	-576.5	574.9	549.2	25.73	22.342		
3,600.0	3,596.1	3,591.7	3,435.4	8.0	19.2	-93.32	46.0	-625.4	605.3	578.4	26.93	22.481		
3,700.0	3,696.1	3,695.4	3,535.9	8.2	19.7	-92.81	50.0	-650.6	629.4	601.8	27.67	22.748		
3,800.0	3,796.1	3,775.0	3,613.0	8.4	20.1	-92.46	52.9	-670.3	654.0	625.7	28.30	23.112		
3,900.0	3,896.1	3,850.1	3,685.1	8.6	20.6	-92.13	55.8	-690.9	681.5	652.5	28.97	23.527		
4,000.0	3,996.1	3,924.8	3,756.1	8.8	21.0	-91.84	58.3	-714.1	712.4	682.8	29.68	24.006		
4,100.0	4,096.1	4,000.8	3,827.7	9.1	21.6	-91.62	60.2	-739.6	745.8	715.4	30.43	24.507		
4,200.0	4,196.1	4,077.0	3,898.9	9.3	22.1	-91.46	61.5	-766.8	781.5	750.3	31.22	25.030		
4,300.0	4,296.1	4,159.4	3,975.2	9.5	22.8	-91.29	62.9	-797.7	819.0	786.9	32.09	25.524		
4,400.0	4,396.1	4,285.6	4,092.8	9.7	23.7	-91.09	64.7	-843.4	855.2	822.0	33.22	25.742		
4,500.0	4,496.1	4,380.8	4,182.6	9.9	24.3	-91.03	64.9	-875.2	888.6	854.5	34.09	26.067		
4,600.0	4,596.1	4,456.4	4,253.3	10.2	24.8	-91.02	64.7	-901.8	923.8	889.0	34.85	26.510		
4,700.0	4,696.1	4,543.0	4,334.1	10.4	25.5	-91.03	64.0	-933.2	960.0	924.3	35.72	26.877		
4,800.0	4,796.1	4,618.0	4,403.7	10.6	26.1	-91.05	63.1	-961.1	997.3	960.8	36.52	27.311		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Northridge Pad Sec.4-T5N-R66W - Northridge 22-4D (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0ft
Survey Program: 182-MWD													Offset Well Error:	0.0ft
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	98.04	-41.5	294.0	297.1					
100.0	100.0	87.2	87.2	0.1	0.1	98.17	-42.3	294.2	297.2	297.0	0.21	1,386.097		
200.0	200.0	184.7	184.6	0.3	0.2	98.63	-44.8	295.0	298.5	297.9	0.56	537.259		
300.0	300.0	285.4	285.3	0.6	0.4	99.23	-48.1	296.0	300.0	299.0	0.99	302.899		
400.0	400.0	385.9	385.7	0.8	0.6	99.74	-51.0	296.9	301.3	299.9	1.42	212.260		
500.0	500.0	486.5	486.4	1.0	0.9	100.16	-53.4	297.7	302.5	300.6	1.86	162.586		
600.0	600.0	587.1	586.9	1.2	1.1	100.52	-55.4	298.2	303.3	301.0	2.30	131.728		
700.0	700.0	687.4	687.2	1.5	1.3	100.82	-57.1	298.8	304.3	301.5	2.74	111.041		
800.0	800.0	789.2	788.9	1.7	1.5	101.07	-58.5	299.0	304.7	301.5	3.18	95.772		
900.0	900.0	890.2	890.0	1.9	1.7	100.96	-57.9	299.1	304.7	301.1	3.62	84.077		
1,000.0	1,000.0	992.7	992.4	2.1	1.9	100.56	-55.8	299.0	304.2	300.2	4.06	74.854		
1,065.9	1,065.9	1,059.9	1,059.6	2.3	2.1	127.06	-54.6	298.4	303.9	299.5	4.35	69.806		
1,100.0	1,100.0	1,094.2	1,094.0	2.4	2.1	127.13	-54.1	298.0	304.0	299.5	4.50	67.593		
1,200.0	1,199.8	1,194.8	1,194.6	2.6	2.4	127.67	-52.7	296.6	305.5	300.6	4.92	62.048		
1,300.0	1,299.5	1,295.0	1,294.7	2.8	2.6	128.67	-51.1	295.1	309.1	303.7	5.36	57.648		
1,400.0	1,399.0	1,395.4	1,395.1	3.1	2.8	129.82	-49.4	293.5	313.2	307.4	5.81	53.925		
1,500.0	1,498.5	1,494.1	1,493.7	3.3	3.0	130.96	-48.0	291.9	317.6	311.3	6.25	50.849		
1,600.0	1,598.1	1,593.8	1,593.4	3.6	3.2	132.12	-46.9	290.3	322.2	315.5	6.68	48.199		
1,700.0	1,697.6	1,695.6	1,695.2	3.8	3.4	133.33	-45.9	288.3	326.6	319.4	7.14	45.754		
1,800.0	1,797.1	1,795.7	1,795.2	4.1	3.6	134.63	-45.6	285.7	330.7	323.1	7.59	43.591		
1,900.0	1,896.7	1,895.6	1,895.1	4.3	3.8	135.91	-45.4	283.1	335.1	327.0	8.03	41.708		
2,000.0	1,996.3	1,999.2	1,998.6	4.6	4.0	137.18	-45.3	279.6	338.2	329.7	8.48	39.883		
2,100.0	2,096.1	2,101.1	2,100.5	4.8	4.3	138.05	-45.1	275.0	337.9	329.0	8.89	38.022		
2,200.0	2,196.1	2,204.4	2,203.7	5.0	4.5	138.58	-45.3	269.8	334.7	325.4	9.28	36.052		
2,300.0	2,296.1	2,310.7	2,309.7	5.1	4.7	112.57	-45.6	262.3	328.3	318.5	9.78	33.555		
2,400.0	2,396.1	2,421.0	2,419.5	5.4	5.0	113.36	-45.9	251.6	319.5	309.2	10.26	31.128		
2,500.0	2,496.1	2,524.3	2,521.8	5.6	5.3	114.61	-47.5	238.3	308.2	297.5	10.74	28.706		
2,600.0	2,596.1	2,637.6	2,633.6	5.8	5.6	116.35	-48.7	219.9	294.0	282.8	11.26	26.115		
2,700.0	2,696.1	2,741.7	2,735.7	6.0	5.9	118.46	-49.6	199.1	276.5	264.7	11.78	23.477		
2,800.0	2,796.1	2,842.1	2,833.6	6.2	6.3	121.16	-51.3	177.2	258.3	246.0	12.30	21.001		
2,900.0	2,896.1	2,944.5	2,932.8	6.4	6.7	125.05	-54.7	152.0	239.2	226.4	12.83	18.639		
3,000.0	2,996.1	3,041.3	3,025.9	6.6	7.0	129.83	-58.3	125.8	219.6	206.3	13.32	16.486		
3,100.0	3,096.1	3,136.0	3,117.3	6.9	7.4	135.08	-61.8	101.5	202.8	189.1	13.76	14.744		
3,200.0	3,196.1	3,237.4	3,215.3	7.1	7.8	141.44	-64.8	75.5	187.6	173.4	14.18	13.234		
3,300.0	3,296.1	3,333.8	3,308.0	7.3	8.2	148.55	-65.9	49.2	172.5	157.9	14.55	11.851		
3,400.0	3,396.1	3,427.2	3,398.6	7.5	8.6	155.75	-67.2	26.3	161.9	147.0	14.90	10.870		
3,500.0	3,496.1	3,523.1	3,491.6	7.7	9.0	163.91	-69.9	3.2	156.2	140.9	15.24	10.250		
3,600.0	3,596.1	3,620.9	3,586.1	8.0	9.5	173.24	-73.1	-21.9	154.1	138.5	15.63	9.862		
3,609.1	3,605.2	3,629.8	3,594.7	8.0	9.5	174.14	-73.3	-24.3	154.1	138.4	15.67	9.836 CC, ES		
3,700.0	3,696.1	3,716.6	3,678.1	8.2	9.9	-177.00	-75.8	-48.2	156.2	140.1	16.12	9.689 SF		
3,800.0	3,796.1	3,810.9	3,768.5	8.4	10.4	-167.72	-79.2	-74.7	163.8	147.1	16.75	9.780		
3,900.0	3,896.1	3,905.9	3,859.3	8.6	10.9	-159.08	-83.1	-102.4	176.6	159.1	17.53	10.075		
4,000.0	3,996.1	4,001.6	3,950.4	8.8	11.5	-151.29	-86.7	-131.3	193.3	174.9	18.41	10.502		
4,100.0	4,096.1	4,100.3	4,044.9	9.1	12.0	-144.89	-90.4	-159.8	212.3	193.0	19.30	11.001		
4,200.0	4,196.1	4,201.9	4,143.1	9.3	12.4	-140.18	-94.5	-185.5	231.1	211.0	20.13	11.481		
4,300.0	4,296.1	4,303.8	4,242.2	9.5	12.8	-136.61	-98.2	-208.5	249.1	228.2	20.91	11.910		
4,400.0	4,396.1	4,408.0	4,344.4	9.7	13.3	-133.85	-101.7	-229.2	265.5	243.9	21.65	12.265		
4,500.0	4,496.1	4,511.2	4,445.8	9.9	13.6	-131.66	-104.6	-247.4	280.5	258.2	22.33	12.561		
4,600.0	4,596.1	4,619.5	4,552.9	10.2	14.0	-129.90	-107.0	-263.6	293.3	270.3	22.98	12.764		
4,700.0	4,696.1	4,729.4	4,662.1	10.4	14.3	-128.71	-108.7	-275.4	302.6	279.0	23.56	12.844		
4,800.0	4,796.1	4,840.4	4,772.8	10.6	14.5	-127.69	-108.6	-284.1	308.7	284.6	24.09	12.817		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design		Northridge Pad Sec.4-T5N-R66W - Northridge 22-4D (Exist.) - Wellbore #1 - Wellbore #1											Offset Site Error:	0.0 ft
Survey Program: 182-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		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
4,900.0	4,896.1	4,947.1	4,879.4	10.8	14.8	-126.92	-107.1	-289.1	311.6	287.0	24.55	12.689		
5,000.0	4,996.1	5,049.1	4,981.4	11.0	14.9	-126.49	-106.2	-291.8	313.2	288.2	24.97	12.541		
5,100.0	5,096.1	5,149.2	5,081.4	11.3	15.1	-126.24	-105.9	-293.7	314.5	289.2	25.38	12.393		
5,200.0	5,196.1	5,250.1	5,182.3	11.5	15.3	-126.06	-105.8	-295.2	315.7	289.9	25.78	12.246		
5,300.0	5,296.1	5,349.9	5,282.1	11.7	15.4	-125.93	-105.9	-296.5	316.8	290.6	26.18	12.101		
5,400.0	5,396.1	5,450.2	5,382.4	11.9	15.6	-125.88	-106.3	-297.5	317.9	291.3	26.57	11.962		
5,500.0	5,496.1	5,550.3	5,482.5	12.2	15.7	-125.96	-107.2	-298.0	318.8	291.9	26.96	11.827		
5,600.0	5,596.1	5,650.5	5,582.6	12.4	15.9	-126.12	-108.5	-298.3	319.8	292.5	27.34	11.697		
5,700.0	5,696.1	5,751.0	5,683.2	12.6	16.0	-126.30	-109.8	-298.4	320.6	292.9	27.72	11.565		
5,800.0	5,796.1	5,851.1	5,783.2	12.8	16.2	-126.47	-111.0	-298.4	321.4	293.3	28.11	11.434		
5,900.0	5,896.1	5,950.9	5,883.1	13.0	16.4	-126.63	-112.2	-298.5	322.1	293.7	28.49	11.306		
6,000.0	5,996.1	6,050.6	5,982.7	13.3	16.5	-126.75	-113.3	-298.8	323.0	294.1	28.88	11.183		
6,100.0	6,096.1	6,150.3	6,082.5	13.5	16.7	-126.92	-114.6	-299.0	323.9	294.7	29.27	11.067		
6,200.0	6,196.1	6,250.4	6,182.6	13.7	16.8	-127.10	-116.0	-299.1	324.9	295.2	29.66	10.953		
6,300.0	6,296.1	6,349.4	6,281.5	13.9	17.0	142.31	-117.6	-299.2	326.6	298.2	28.38	11.508		
6,400.0	6,395.5	6,448.7	6,380.8	14.1	17.2	142.72	-119.6	-299.3	336.3	307.9	28.46	11.819		
6,500.0	6,492.7	6,544.1	6,476.2	14.3	17.3	143.74	-121.9	-299.3	356.4	328.1	28.27	12.605		
6,600.0	6,586.2	6,634.4	6,566.4	14.5	17.5	145.15	-123.9	-300.2	387.7	359.8	27.84	13.928		
6,700.0	6,674.5	6,720.7	6,652.7	14.8	17.6	146.59	-125.9	-301.5	430.2	403.0	27.19	15.822		
6,800.0	6,756.2	6,801.1	6,733.0	15.2	17.8	147.68	-127.8	-302.9	483.5	457.1	26.43	18.296		
6,900.0	6,830.0	6,873.5	6,805.4	15.8	17.9	148.11	-129.5	-304.2	546.9	521.2	25.70	21.281		
7,000.0	6,894.7	6,935.3	6,867.2	16.6	18.0	147.46	-131.1	-305.4	619.5	594.3	25.27	24.515		
7,100.0	6,949.2	6,986.7	6,918.6	17.7	18.1	145.33	-132.4	-306.5	700.3	674.7	25.54	27.417		
7,200.0	6,992.7	7,027.5	6,959.4	19.1	18.2	140.84	-133.6	-307.4	787.6	760.5	27.13	29.029		
7,300.0	7,024.4	7,056.7	6,988.5	20.8	18.3	132.00	-134.4	-308.0	880.0	849.0	31.01	28.375		
7,400.0	7,044.0	7,073.7	7,005.5	22.7	18.3	114.51	-134.9	-308.4	975.8	937.9	37.86	25.773		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Northridge Pad Sec.4-T5N-R66W - Northridge 4AD (Exist.) - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 ft
Survey Program: 182-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	93.81	-20.4	306.0	306.8				
100.0	100.0	90.0	90.0	0.1	0.1	93.80	-20.3	305.7	306.4	306.2	0.21	1,431.947	
200.0	200.0	191.1	191.1	0.3	0.2	93.77	-20.1	305.0	305.6	305.1	0.56	545.133	
246.1	246.1	234.6	234.5	0.4	0.3	93.75	-20.0	304.8	305.4	304.7	0.75	406.086	
300.0	300.0	286.6	286.6	0.6	0.4	93.71	-19.8	305.0	305.7	304.7	0.98	312.207	
400.0	400.0	391.3	391.3	0.8	0.6	93.77	-20.1	304.9	305.5	304.1	1.42	214.913	
500.0	500.0	493.3	493.2	1.0	0.9	93.76	-20.0	303.3	304.0	302.1	1.87	162.878	
600.0	600.0	592.1	592.0	1.2	1.1	93.57	-18.9	302.2	302.9	300.6	2.30	131.824	
700.0	700.0	693.2	693.2	1.5	1.3	93.71	-19.5	300.7	301.4	298.7	2.73	110.274	
800.0	800.0	796.0	795.9	1.7	1.5	93.88	-20.2	298.8	299.5	296.3	3.18	94.179	
900.0	900.0	895.3	895.2	1.9	1.7	93.87	-20.0	296.3	297.1	293.5	3.62	82.165	
1,000.0	1,000.0	1,005.5	1,005.3	2.1	2.0	93.64	-18.6	292.2	293.3	289.2	4.08	71.919	
1,100.0	1,100.0	1,118.3	1,117.6	2.4	2.2	120.22	-15.7	282.7	285.5	281.0	4.55	62.737	
1,200.0	1,199.8	1,219.6	1,218.3	2.6	2.5	120.30	-10.3	272.7	277.9	272.9	5.00	55.612	
1,300.0	1,299.5	1,328.8	1,326.5	2.8	2.8	120.82	-3.2	259.8	270.1	264.6	5.47	49.338	
1,400.0	1,399.0	1,436.2	1,432.2	3.1	3.1	120.97	6.2	243.1	258.8	252.8	5.97	43.317	
1,500.0	1,498.5	1,539.7	1,533.5	3.3	3.5	120.71	17.1	225.1	245.5	239.1	6.48	37.914	
1,600.0	1,598.1	1,644.3	1,635.7	3.6	3.9	120.91	26.4	204.7	230.3	223.3	6.99	32.952	
1,700.0	1,697.6	1,747.0	1,735.4	3.8	4.3	120.74	37.0	182.5	212.8	205.3	7.52	28.292	
1,800.0	1,797.1	1,846.1	1,831.3	4.1	4.8	120.55	47.4	159.9	194.2	186.1	8.05	24.131	
1,900.0	1,896.7	1,943.9	1,926.0	4.3	5.2	120.31	57.6	137.8	175.6	167.1	8.57	20.494	
2,000.0	1,996.3	2,044.9	2,023.5	4.6	5.7	118.93	69.5	114.0	155.7	146.6	9.13	17.055	
2,100.0	2,096.1	2,143.8	2,118.3	4.8	6.2	115.08	82.7	89.3	132.9	123.1	9.73	13.649	
2,200.0	2,196.1	2,240.7	2,210.6	5.0	6.8	106.85	97.9	64.1	108.8	98.2	10.53	10.330	
2,300.0	2,296.1	2,336.3	2,301.5	5.1	7.3	67.09	113.1	38.2	86.6	75.5	11.13	7.779	
2,400.0	2,396.1	2,431.3	2,391.8	5.4	7.9	47.99	127.7	12.9	71.6	60.6	10.97	6.525	
2,476.7	2,472.8	2,504.3	2,461.3	5.5	8.3	29.71	138.6	-6.5	67.5	56.5	10.99	6.144 CC, ES	
2,500.0	2,496.1	2,526.1	2,482.0	5.6	8.4	24.02	142.0	-12.4	68.0	56.8	11.12	6.113 SF	
2,600.0	2,596.1	2,619.6	2,570.7	5.8	9.0	1.88	158.1	-37.4	79.4	67.1	12.32	6.446	
2,700.0	2,696.1	2,714.4	2,660.4	6.0	9.5	-13.64	174.8	-63.0	100.5	86.7	13.80	7.282	
2,800.0	2,796.1	2,808.3	2,748.8	6.2	10.1	-24.45	190.8	-90.4	126.9	111.7	15.15	8.375	
2,900.0	2,896.1	2,904.9	2,839.6	6.4	10.8	-32.09	206.5	-119.4	156.0	139.7	16.34	9.547	
3,000.0	2,996.1	3,003.6	2,933.5	6.6	11.4	-36.88	221.2	-145.9	183.7	166.4	17.35	10.592	
3,100.0	3,096.1	3,096.6	3,021.9	6.9	11.9	-40.37	234.6	-171.4	212.4	194.1	18.25	11.636	
3,200.0	3,196.1	3,192.7	3,113.2	7.1	12.5	-42.76	250.1	-197.2	242.4	223.2	19.13	12.669	
3,300.0	3,296.1	3,296.4	3,212.3	7.3	13.1	-44.80	265.0	-223.7	270.6	250.6	20.00	13.530	
3,400.0	3,396.1	3,396.5	3,308.6	7.5	13.6	-46.75	276.3	-248.6	296.4	275.6	20.81	14.242	
3,500.0	3,496.1	3,495.6	3,404.1	7.7	14.1	-48.25	287.5	-272.5	321.8	300.2	21.58	14.911	
3,600.0	3,596.1	3,593.6	3,498.8	8.0	14.6	-49.60	297.7	-295.7	346.6	324.3	22.34	15.517	
3,700.0	3,696.1	3,688.2	3,590.2	8.2	15.1	-50.54	308.4	-317.5	371.6	348.5	23.07	16.111	
3,800.0	3,796.1	3,773.8	3,672.7	8.4	15.6	-51.31	318.8	-338.2	398.1	374.4	23.78	16.746	
3,900.0	3,896.1	3,854.6	3,749.7	8.6	16.1	-51.76	331.4	-359.0	427.9	403.4	24.49	17.471	
4,000.0	3,996.1	3,936.0	3,826.5	8.8	16.6	-52.08	346.1	-381.6	461.0	435.8	25.26	18.253	
4,100.0	4,096.1	4,022.6	3,907.5	9.1	17.2	-52.35	363.1	-407.0	496.2	470.1	26.09	19.018	
4,200.0	4,196.1	4,122.8	4,001.1	9.3	17.9	-52.68	382.6	-437.0	531.8	504.8	27.02	19.683	
4,300.0	4,296.1	4,245.6	4,117.4	9.5	18.7	-53.14	403.0	-470.9	563.9	535.9	28.02	20.126	
4,400.0	4,396.1	4,328.5	4,196.4	9.7	19.2	-53.54	414.7	-493.0	593.8	565.1	28.76	20.648	
4,500.0	4,496.1	4,414.4	4,277.3	9.9	19.7	-53.89	428.7	-518.0	626.9	597.4	29.54	21.226	
4,600.0	4,596.1	4,505.7	4,363.6	10.2	20.3	-54.12	444.3	-543.6	659.7	629.3	30.36	21.727	
4,700.0	4,696.1	4,584.2	4,437.3	10.4	20.9	-54.26	458.9	-566.6	694.3	663.2	31.12	22.308	
4,800.0	4,796.1	4,670.6	4,517.6	10.6	21.5	-54.61	473.9	-594.5	730.7	698.7	31.98	22.852	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Northridge Pad Sec.4-T5N-R66W - Northridge 4AD (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 182-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		
4,900.0	4,896.1	4,779.4	4,619.3	10.8	22.2	-54.85	493.7	-627.6	766.0	733.1	32.96	23.242		
5,000.0	4,996.1	4,890.7	4,724.0	11.0	23.0	-54.97	514.2	-659.5	800.1	766.2	33.91	23.596		
5,100.0	5,096.1	4,991.2	4,819.3	11.3	23.6	-55.13	530.7	-686.8	831.8	797.0	34.77	23.925		
5,200.0	5,196.1	5,120.2	4,942.0	11.5	24.4	-55.24	552.0	-720.1	862.7	826.9	35.77	24.118		
5,300.0	5,296.1	5,280.7	5,097.1	11.7	25.2	-55.58	571.0	-756.5	888.6	851.7	36.80	24.145		
5,400.0	5,396.1	5,400.9	5,215.1	11.9	25.7	-55.78	581.5	-777.4	907.8	870.2	37.52	24.197		
5,500.0	5,496.1	5,567.7	5,379.9	12.2	26.2	-56.07	591.7	-800.6	922.6	884.4	38.28	24.101		
5,600.0	5,596.1	5,698.6	5,510.2	12.4	26.5	-56.20	596.7	-811.8	931.8	893.0	38.82	24.005		
5,700.0	5,696.1	5,799.7	5,610.9	12.6	26.7	-56.17	601.8	-818.6	940.2	900.9	39.25	23.951		
5,800.0	5,796.1	5,935.1	5,746.1	12.8	27.0	-56.18	605.9	-824.9	945.5	905.8	39.72	23.807		
5,900.0	5,896.1	6,035.8	5,846.7	13.0	27.1	-56.22	607.4	-828.5	949.4	909.3	40.09	23.679		
6,000.0	5,996.1	6,137.7	5,948.5	13.3	27.3	-56.34	608.1	-832.9	953.3	912.9	40.47	23.554		
6,100.0	6,096.1	6,242.0	6,052.7	13.5	27.4	-56.44	608.7	-837.0	956.9	916.1	40.86	23.422		
6,200.0	6,196.1	6,347.8	6,158.4	13.7	27.6	-56.58	608.5	-840.9	959.9	918.7	41.23	23.282		
6,300.0	6,296.1	6,461.8	6,272.4	13.9	27.7	-147.16	607.3	-844.6	962.7	933.1	29.54	32.586		
6,400.0	6,395.5	6,564.8	6,375.3	14.1	27.8	-147.25	605.7	-846.5	972.3	943.0	29.36	33.119		
6,500.0	6,492.7	6,649.8	6,460.4	14.3	28.0	-147.14	604.9	-848.5	993.4	964.5	28.94	34.329		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Northridge Pad Sec.4-T5N-R66W - Northridge 4KD (Exist.) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 ft
Survey Program: 124-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	100.25	-52.1	288.1	293.0					
100.0	100.0	92.1	92.1	0.1	0.1	100.18	-51.7	287.8	292.4	292.2	0.22	1,348.887		
200.0	200.0	194.5	194.5	0.3	0.3	100.02	-50.6	286.6	291.1	290.4	0.63	461.139		
300.0	300.0	299.7	299.6	0.6	0.5	99.97	-49.9	284.0	288.6	287.5	1.09	264.916		
400.0	400.0	404.0	403.9	0.8	0.8	100.12	-49.9	279.6	284.4	282.8	1.56	182.649		
500.0	500.0	521.7	521.1	1.0	1.2	100.86	-51.6	269.2	275.9	273.8	2.11	130.540		
600.0	600.0	629.6	627.8	1.2	1.6	102.28	-55.2	253.6	262.4	259.6	2.74	95.708		
700.0	700.0	729.2	725.8	1.5	2.2	104.45	-61.1	237.2	247.6	244.2	3.42	72.341		
800.0	800.0	826.8	821.7	1.7	2.7	107.35	-69.0	220.8	233.6	229.4	4.18	55.876		
900.0	900.0	930.0	922.3	1.9	3.4	112.00	-81.2	200.9	219.2	214.1	5.12	42.786		
1,000.0	1,000.0	1,031.2	1,020.1	2.1	4.1	117.72	-93.8	178.5	203.9	197.7	6.16	33.085		
1,100.0	1,100.0	1,127.0	1,112.2	2.4	4.9	151.47	-107.1	155.5	191.7	184.9	6.74	28.437		
1,196.2	1,196.0	1,216.3	1,197.5	2.6	5.7	159.62	-121.5	133.7	187.3	179.4	7.92	23.644	CC	
1,200.0	1,199.8	1,219.8	1,200.9	2.6	5.7	159.96	-122.1	132.8	187.3	179.3	7.97	23.502	ES	
1,300.0	1,299.5	1,315.1	1,291.4	2.8	6.5	169.51	-139.8	108.9	192.5	183.3	9.19	20.944		
1,400.0	1,399.0	1,412.0	1,383.6	3.1	7.2	178.46	-155.6	83.8	202.0	191.8	10.21	19.788		
1,500.0	1,498.5	1,504.0	1,471.5	3.3	7.9	-174.18	-171.0	61.3	216.9	205.9	11.06	19.619	SF	
1,600.0	1,598.1	1,597.8	1,560.9	3.6	8.6	-167.55	-187.2	38.0	235.9	224.0	11.87	19.877		
1,700.0	1,697.6	1,691.9	1,650.8	3.8	9.4	-162.05	-203.7	15.4	257.8	245.2	12.57	20.509		
1,800.0	1,797.1	1,786.7	1,741.1	4.1	10.2	-157.26	-220.3	-7.8	281.9	268.6	13.25	21.279		
1,900.0	1,896.7	1,884.4	1,834.0	4.3	11.0	-152.85	-237.1	-33.1	307.2	293.3	13.93	22.059		
2,000.0	1,996.3	1,982.0	1,926.8	4.6	11.8	-148.98	-252.3	-59.6	331.9	317.4	14.52	22.853		
2,100.0	2,096.1	2,075.0	2,015.5	4.8	12.6	-145.92	-266.8	-83.2	355.0	339.9	15.03	23.615		
2,200.0	2,196.1	2,170.2	2,106.1	5.0	13.3	-142.83	-282.5	-107.8	377.2	361.8	15.48	24.368		
2,300.0	2,296.1	2,263.5	2,195.3	5.1	14.1	-166.51	-297.6	-130.6	398.7	383.1	15.62	25.532		
2,400.0	2,396.1	2,361.1	2,288.5	5.4	14.8	-163.87	-314.7	-154.1	422.2	405.4	16.79	25.144		
2,500.0	2,496.1	2,468.3	2,391.0	5.6	15.6	-161.07	-330.6	-180.8	444.2	426.2	18.02	24.646		
2,600.0	2,596.1	2,558.8	2,477.9	5.8	16.3	-158.90	-343.0	-203.2	466.0	447.0	19.08	24.425		
2,700.0	2,696.1	2,648.9	2,564.2	6.0	17.0	-157.15	-357.6	-224.4	490.2	470.0	20.14	24.332		
2,800.0	2,796.1	2,748.4	2,659.2	6.2	17.9	-155.18	-373.2	-249.6	515.1	493.7	21.35	24.127		
2,900.0	2,896.1	2,837.1	2,743.5	6.4	18.7	-153.33	-385.7	-273.9	540.1	517.6	22.49	24.018		
3,000.0	2,996.1	2,940.3	2,841.4	6.6	19.6	-151.32	-400.8	-303.0	566.7	543.0	23.75	23.859		
3,100.0	3,096.1	3,023.7	2,920.7	6.9	20.3	-149.80	-412.1	-326.4	592.8	568.0	24.81	23.891		
3,200.0	3,196.1	3,108.8	3,000.8	7.1	21.1	-148.30	-425.2	-352.1	622.0	596.0	25.94	23.974		
3,300.0	3,296.1	3,221.6	3,107.0	7.3	22.1	-146.45	-441.9	-386.0	651.1	623.8	27.32	23.836		
3,400.0	3,396.1	3,313.0	3,193.7	7.5	22.9	-145.09	-453.7	-412.5	678.5	650.1	28.43	23.870		
3,500.0	3,496.1	3,393.9	3,270.2	7.7	23.7	-144.01	-465.5	-436.2	707.8	678.4	29.48	24.008		
3,600.0	3,596.1	3,498.2	3,368.4	8.0	24.6	-142.80	-482.2	-466.8	738.5	707.8	30.75	24.015		
3,700.0	3,696.1	3,615.5	3,479.8	8.2	25.6	-141.42	-497.2	-500.4	766.5	734.4	32.05	23.916		
3,800.0	3,796.1	3,713.0	3,572.9	8.4	26.4	-140.21	-505.9	-527.9	791.6	758.5	33.10	23.915		
3,900.0	3,896.1	3,786.7	3,643.2	8.6	27.0	-139.40	-513.5	-548.8	818.4	784.4	34.00	24.073		
4,000.0	3,996.1	3,849.8	3,702.3	8.8	27.6	-138.70	-522.1	-569.0	850.1	815.2	34.90	24.355		
4,100.0	4,096.1	3,922.0	3,768.9	9.1	28.4	-137.82	-532.3	-594.8	884.9	848.9	35.99	24.588		
4,200.0	4,196.1	4,008.4	3,848.3	9.3	29.5	-136.77	-544.4	-626.9	920.9	883.6	37.28	24.700		
4,300.0	4,296.1	4,075.1	3,909.1	9.5	30.2	-136.05	-554.9	-652.1	958.9	920.5	38.34	25.007		
4,400.0	4,396.1	4,170.3	3,995.6	9.7	31.4	-135.14	-571.4	-688.2	998.3	958.6	39.73	25.125		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Northridge Pad Sec.4-T5N-R66W - Northridge 4ND (Exist.) - Northridge 4ND - Northridge 4ND													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
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	75.93	92.9	370.8	382.5					
100.0	100.0	88.5	88.5	0.1	0.1	75.93	92.9	370.8	382.3	382.1	0.21	1,804.346		
200.0	200.0	188.5	188.5	0.3	0.3	75.93	92.9	370.8	382.3	381.6	0.65	589.525		
300.0	300.0	288.5	288.5	0.6	0.5	75.93	92.9	370.8	382.3	381.2	1.10	348.164		
400.0	400.0	388.5	388.5	0.8	0.8	75.93	92.9	370.8	382.3	380.7	1.55	247.027		
500.0	500.0	488.5	488.5	1.0	1.0	75.93	92.9	370.8	382.3	380.3	2.00	191.422		
600.0	600.0	588.5	588.5	1.2	1.2	75.93	92.9	370.8	382.3	379.8	2.45	156.250		
700.0	700.0	688.5	688.5	1.5	1.4	75.93	92.9	370.8	382.3	379.4	2.90	131.997		
800.0	800.0	788.5	788.5	1.7	1.7	75.93	92.9	370.8	382.3	378.9	3.35	114.261		
900.0	900.0	888.5	888.5	1.9	1.9	75.93	92.9	370.8	382.3	378.5	3.80	100.727		
1,000.0	1,000.0	988.5	988.5	2.1	2.1	75.93	92.9	370.8	382.3	378.0	4.24	90.060 CC		
1,100.0	1,100.0	1,088.5	1,088.5	2.4	2.3	102.75	92.9	370.8	382.7	378.0	4.69	81.555 ES		
1,200.0	1,199.8	1,188.3	1,188.3	2.6	2.6	103.49	92.9	370.8	383.8	378.7	5.14	74.699		
1,300.0	1,299.5	1,288.0	1,288.0	2.8	2.8	104.70	92.9	370.8	386.0	380.4	5.59	69.031		
1,400.0	1,399.0	1,387.5	1,387.5	3.1	3.0	106.07	92.9	370.8	388.5	382.5	6.05	64.198		
1,500.0	1,498.5	1,487.0	1,487.0	3.3	3.2	107.42	92.9	370.8	391.3	384.8	6.52	60.027		
1,600.0	1,598.1	1,586.6	1,586.6	3.6	3.5	108.75	92.9	370.8	394.3	387.3	6.99	56.407		
1,700.0	1,697.6	1,686.1	1,686.1	3.8	3.7	110.06	92.9	370.8	397.5	390.1	7.47	53.251		
1,800.0	1,797.1	1,785.6	1,785.6	4.1	3.9	111.35	92.9	370.8	401.0	393.0	7.94	50.483		
1,900.0	1,896.7	1,885.2	1,885.2	4.3	4.1	112.62	92.9	370.8	404.6	396.2	8.42	48.043		
2,000.0	1,996.3	1,984.8	1,984.8	4.6	4.3	113.79	92.9	370.8	408.0	399.2	8.88	45.949		
2,100.0	2,096.1	2,085.9	2,085.8	4.8	4.6	114.34	94.2	370.6	410.1	400.8	9.30	44.107		
2,200.0	2,196.1	2,187.2	2,187.1	5.0	4.8	113.92	99.0	370.0	410.4	400.7	9.70	42.294		
2,300.0	2,296.1	2,288.0	2,287.6	5.1	5.0	86.19	107.2	368.8	409.7	399.7	10.00	40.965		
2,400.0	2,396.1	2,388.2	2,387.0	5.4	5.3	84.54	118.9	367.2	409.1	398.6	10.45	39.161		
2,500.0	2,496.1	2,487.4	2,485.0	5.6	5.5	82.43	133.9	365.1	408.7	397.8	10.89	37.537		
2,514.0	2,510.1	2,501.1	2,498.6	5.6	5.5	82.09	136.2	364.8	408.7	397.7	10.95	37.325		
2,600.0	2,596.1	2,585.4	2,581.3	5.8	5.8	79.87	151.9	362.6	409.0	397.7	11.33	36.103		
2,700.0	2,696.1	2,682.1	2,675.7	6.0	6.0	76.91	172.9	359.7	410.5	398.7	11.77	34.873		
2,800.0	2,796.1	2,779.3	2,770.1	6.2	6.4	73.76	195.5	356.6	413.3	401.1	12.21	33.839		
2,900.0	2,896.1	2,876.5	2,864.6	6.4	6.7	70.65	218.1	353.4	417.5	404.8	12.66	32.964		
3,000.0	2,996.1	2,973.7	2,959.1	6.6	7.0	67.61	240.7	350.3	422.9	409.7	13.12	32.219		
3,100.0	3,096.1	3,070.9	3,053.6	6.9	7.4	64.66	263.3	347.1	429.5	415.9	13.60	31.584		
3,200.0	3,196.1	3,168.1	3,148.1	7.1	7.8	61.80	285.9	344.0	437.3	423.2	14.09	31.043		
3,300.0	3,296.1	3,265.3	3,242.6	7.3	8.2	59.03	308.5	340.9	446.2	431.6	14.59	30.579		
3,400.0	3,396.1	3,362.5	3,337.1	7.5	8.6	56.38	331.1	337.7	456.1	441.0	15.11	30.182		
3,500.0	3,496.1	3,459.7	3,431.6	7.7	9.0	53.84	353.7	334.6	467.0	451.3	15.65	29.841		
3,600.0	3,596.1	3,556.9	3,526.1	8.0	9.4	51.42	376.3	331.5	478.8	462.6	16.20	29.548		
3,700.0	3,696.1	3,654.1	3,620.6	8.2	9.8	49.11	398.9	328.3	491.4	474.6	16.77	29.295		
3,800.0	3,796.1	3,751.3	3,715.0	8.4	10.2	46.92	421.5	325.2	504.8	487.5	17.36	29.078		
3,900.0	3,896.1	3,848.6	3,809.5	8.6	10.6	44.83	444.1	322.0	518.9	501.0	17.96	28.892		
4,000.0	3,996.1	3,945.8	3,904.0	8.8	11.1	42.86	466.7	318.9	533.7	515.2	18.58	28.733		
4,100.0	4,096.1	4,043.0	3,998.5	9.1	11.5	40.99	489.3	315.8	549.1	529.9	19.20	28.598		
4,200.0	4,196.1	4,140.2	4,093.0	9.3	11.9	39.23	511.9	312.6	565.1	545.2	19.84	28.484		
4,300.0	4,296.1	4,237.4	4,187.5	9.5	12.4	37.56	534.5	309.5	581.5	561.0	20.48	28.389		
4,400.0	4,396.1	4,334.6	4,282.0	9.7	12.8	35.98	557.1	306.3	598.5	577.3	21.14	28.311		
4,500.0	4,496.1	4,431.8	4,376.5	9.9	13.3	34.48	579.7	303.2	615.8	594.0	21.80	28.247		
4,600.0	4,596.1	4,529.0	4,471.0	10.2	13.7	33.07	602.3	300.1	633.6	611.1	22.47	28.197		
4,700.0	4,696.1	4,626.2	4,565.5	10.4	14.1	31.73	624.9	296.9	651.7	628.5	23.14	28.158		
4,800.0	4,796.1	4,723.4	4,660.0	10.6	14.6	30.46	647.5	293.8	670.1	646.3	23.82	28.130		
4,900.0	4,896.1	4,820.6	4,754.4	10.8	15.1	29.26	670.1	290.7	688.9	664.4	24.51	28.111		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design Northridge Pad Sec.4-T5N-R66W - Northridge 4ND (Exist.) - Northridge 4ND - Northridge 4ND														Offset Site Error:	0.0ft
Survey Program: 0-MWD														Offset Well Error:	0.0ft
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		
5,000.0	4,996.1	4,923.4	4,854.4	11.0	15.5	28.07	693.9	287.4	707.8	682.6	25.20	28.093			
5,100.0	5,096.1	5,046.6	4,974.9	11.3	15.9	26.89	718.8	283.9	724.6	698.7	25.87	28.008			
5,200.0	5,196.1	5,171.8	5,098.5	11.5	16.3	25.98	738.9	281.1	738.0	711.5	26.50	27.851			
5,300.0	5,296.1	5,298.5	5,224.3	11.7	16.6	25.34	753.7	279.0	747.9	720.8	27.07	27.626			
5,400.0	5,396.1	5,426.4	5,351.8	11.9	16.9	24.95	763.1	277.7	754.1	726.5	27.58	27.346			
5,500.0	5,496.1	5,554.8	5,480.2	12.2	17.1	24.79	766.8	277.2	756.6	728.5	28.02	27.001			
5,600.0	5,596.1	5,659.2	5,584.6	12.4	17.2	24.79	766.9	277.2	756.6	728.2	28.41	26.635			
5,700.0	5,696.1	5,759.2	5,684.6	12.6	17.4	24.79	766.9	277.2	756.6	727.8	28.79	26.277			
5,800.0	5,796.1	5,859.2	5,784.6	12.8	17.6	24.79	766.9	277.2	756.6	727.4	29.18	25.927			
5,900.0	5,896.1	5,959.2	5,884.6	13.0	17.7	24.79	766.9	277.2	756.6	727.0	29.57	25.584			
6,000.0	5,996.1	6,059.2	5,984.6	13.3	17.9	24.79	766.9	277.2	756.6	726.6	29.96	25.250			
6,100.0	6,096.1	6,159.2	6,084.6	13.5	18.0	24.79	766.9	277.2	756.6	726.3	30.36	24.923			
6,200.0	6,196.1	6,259.2	6,184.6	13.7	18.2	24.79	766.9	277.2	756.6	725.9	30.75	24.604			
6,300.0	6,296.1	6,359.2	6,284.6	13.9	18.4	-65.69	766.9	277.2	756.3	726.7	29.63	25.528			
6,400.0	6,395.5	6,458.6	6,384.0	14.1	18.5	-66.72	766.9	277.2	752.0	722.0	29.93	25.122			
6,500.0	6,492.7	6,555.8	6,481.2	14.3	18.7	-68.92	766.9	277.2	743.0	712.9	30.11	24.675			
6,600.0	6,586.2	6,649.3	6,574.7	14.5	18.8	-72.21	766.9	277.2	730.6	700.3	30.26	24.143			
6,700.0	6,674.5	6,737.6	6,663.0	14.8	19.0	-76.39	766.9	277.2	716.4	685.9	30.49	23.494			
6,800.0	6,756.2	6,819.3	6,744.7	15.2	19.1	-81.11	766.9	277.2	702.9	672.0	30.90	22.745			
6,900.0	6,830.0	6,893.1	6,818.5	15.8	19.2	-85.92	766.9	277.2	692.8	661.3	31.53	21.974			
6,993.3	6,890.6	6,953.7	6,879.1	16.6	19.3	-90.00	766.9	277.2	689.2	656.8	32.31	21.327			
7,000.0	6,894.7	6,957.8	6,883.2	16.6	19.3	-90.27	766.9	277.2	689.2	656.8	32.37	21.292			
7,100.0	6,949.2	7,012.3	6,937.7	17.7	19.4	-93.64	766.9	277.2	694.9	661.5	33.44	20.781			
7,200.0	6,992.7	7,055.8	6,981.2	19.1	19.5	-95.60	766.9	277.2	712.0	677.3	34.79	20.465			
7,300.0	7,024.4	7,087.5	7,012.9	20.8	19.6	-95.84	766.9	277.2	741.6	705.1	36.50	20.316			
7,400.0	7,044.0	7,107.1	7,032.5	22.7	19.6	-94.11	766.9	277.2	783.1	744.5	38.57	20.302 SF			
7,500.0	7,051.0	7,114.1	7,039.5	24.8	19.6	-90.27	766.9	277.2	835.0	794.2	40.85	20.440			
7,600.0	7,051.0	7,114.1	7,039.5	27.0	19.6	-90.00	766.9	277.2	894.9	851.9	43.04	20.793			
7,700.0	7,051.0	7,114.1	7,039.5	29.3	19.6	-90.00	766.9	277.2	961.4	916.1	45.33	21.208			

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design		SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms 22-4-3CHZ - Wellbore #1 - Plan #2 (4-21-1										Offset Site Error:		0.0 ft	
Survey Program: 0-MWD												Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance								
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
0.0	0.0	3.0	3.0	0.0	0.0	-101.53	-8.0	-39.3	40.1	40.1	0.00	N/A			
100.0	100.0	103.0	103.0	0.1	0.1	-101.53	-8.0	-39.3	40.1	39.8	0.23	173.049			
200.0	200.0	203.0	203.0	0.3	0.3	-101.53	-8.0	-39.3	40.1	39.4	0.68	58.825			
300.0	300.0	303.0	303.0	0.6	0.6	-101.53	-8.0	-39.3	40.1	38.9	1.13	35.435			
400.0	400.0	403.0	403.0	0.8	0.8	-101.53	-8.0	-39.3	40.1	38.5	1.58	25.354			
500.0	500.0	503.0	503.0	1.0	1.0	-101.53	-8.0	-39.3	40.1	38.0	2.03	19.739			
600.0	600.0	603.0	603.0	1.2	1.2	-101.54	-8.0	-39.3	40.1	37.6	2.48	16.165			
700.0	700.0	703.1	703.1	1.5	1.4	-104.19	-9.8	-38.7	40.0	37.1	2.90	13.775			
735.0	735.0	738.0	738.0	1.5	1.5	-106.30	-11.2	-38.3	39.9	36.9	3.04	13.119	CC		
800.0	800.0	802.9	802.7	1.7	1.6	-111.81	-14.9	-37.2	40.1	36.8	3.31	12.122	ES		
900.0	900.0	902.5	902.0	1.9	1.8	-122.82	-22.6	-35.0	41.7	37.9	3.74	11.141			
1,000.0	1,000.0	1,002.2	1,001.4	2.1	2.1	-132.93	-30.4	-32.7	44.7	40.5	4.19	10.673			
1,100.0	1,100.0	1,101.7	1,100.5	2.4	2.3	-116.68	-38.3	-30.4	49.7	45.1	4.63	10.739			
1,200.0	1,199.8	1,200.8	1,199.3	2.6	2.5	-127.62	-46.1	-28.1	58.1	53.0	5.06	11.468			
1,300.0	1,299.5	1,299.4	1,297.5	2.8	2.8	-137.47	-53.8	-25.9	70.5	65.0	5.50	12.832			
1,400.0	1,399.0	1,397.8	1,395.6	3.1	3.0	-144.75	-61.6	-23.6	85.3	79.3	5.93	14.383			
1,500.0	1,498.5	1,496.2	1,493.7	3.3	3.3	-149.84	-69.3	-21.3	101.0	94.6	6.37	15.865			
1,600.0	1,598.1	1,594.6	1,591.8	3.6	3.5	-153.55	-77.1	-19.1	117.3	110.5	6.80	17.232			
1,700.0	1,697.6	1,693.1	1,689.9	3.8	3.8	-156.35	-84.8	-16.8	133.9	126.7	7.25	18.478			
1,800.0	1,797.1	1,791.5	1,788.0	4.1	4.1	-158.53	-92.6	-14.5	150.8	143.1	7.69	19.607			
1,900.0	1,896.7	1,889.9	1,886.1	4.3	4.3	-160.27	-100.3	-12.3	167.8	159.7	8.14	20.628			
2,000.0	1,996.3	1,988.5	1,984.3	4.6	4.6	-161.67	-108.1	-10.0	184.2	175.6	8.57	21.478			
2,100.0	2,096.1	2,087.5	2,083.1	4.8	4.9	-162.57	-115.9	-7.7	197.4	188.4	8.98	21.982			
2,200.0	2,196.1	2,187.0	2,182.2	5.0	5.1	-163.07	-123.7	-5.4	207.3	197.9	9.38	22.099			
2,300.0	2,296.1	2,286.7	2,281.5	5.1	5.4	170.11	-131.6	-3.1	215.5	205.0	10.50	20.518			
2,400.0	2,396.1	2,386.4	2,380.9	5.4	5.7	169.88	-139.4	-0.8	223.6	212.6	10.98	20.357			
2,500.0	2,496.1	2,486.0	2,480.2	5.6	5.9	169.66	-147.2	1.5	231.8	220.3	11.47	20.208			
2,600.0	2,596.1	2,585.7	2,579.5	5.8	6.2	169.46	-155.1	3.8	239.9	228.0	11.96	20.068			
2,700.0	2,696.1	2,685.4	2,678.9	6.0	6.5	169.27	-162.9	6.0	248.1	235.6	12.44	19.938			
2,800.0	2,796.1	2,786.3	2,779.5	6.2	6.7	169.09	-170.9	8.4	256.2	243.3	12.93	19.816			
2,900.0	2,896.1	2,896.0	2,889.0	6.4	7.0	168.96	-176.9	10.1	262.0	248.6	13.37	19.600			
3,000.0	2,996.1	3,006.1	2,999.0	6.6	7.2	168.91	-179.0	10.7	263.9	250.1	13.79	19.135			
3,100.0	3,096.1	3,106.2	3,099.1	6.9	7.4	168.91	-179.0	10.7	263.9	249.7	14.19	18.598			
3,200.0	3,196.1	3,206.2	3,199.1	7.1	7.5	168.91	-179.0	10.7	263.9	249.4	14.58	18.105			
3,300.0	3,296.1	3,306.2	3,299.1	7.3	7.7	168.91	-179.0	10.7	263.9	249.0	14.97	17.634			
3,400.0	3,396.1	3,406.2	3,399.1	7.5	7.9	168.91	-179.0	10.7	263.9	248.6	15.36	17.183			
3,500.0	3,496.1	3,506.2	3,499.1	7.7	8.0	168.91	-179.0	10.7	263.9	248.2	15.76	16.751			
3,600.0	3,596.1	3,606.2	3,599.1	8.0	8.2	168.91	-179.0	10.7	263.9	247.8	16.15	16.338			
3,700.0	3,696.1	3,706.2	3,699.1	8.2	8.4	168.91	-179.0	10.7	263.9	247.4	16.56	15.943			
3,800.0	3,796.1	3,806.2	3,799.1	8.4	8.6	168.91	-179.0	10.7	263.9	247.0	16.96	15.564			
3,900.0	3,896.1	3,906.2	3,899.1	8.6	8.8	168.91	-179.0	10.7	263.9	246.6	17.36	15.201			
4,000.0	3,996.1	4,006.2	3,999.1	8.8	9.0	168.91	-179.0	10.7	263.9	246.2	17.77	14.852			
4,100.0	4,096.1	4,106.2	4,099.1	9.1	9.2	168.91	-179.0	10.7	263.9	245.8	18.18	14.518			
4,200.0	4,196.1	4,206.2	4,199.1	9.3	9.3	168.91	-179.0	10.7	263.9	245.3	18.59	14.197			
4,300.0	4,296.1	4,306.2	4,299.1	9.5	9.5	168.91	-179.0	10.7	263.9	244.9	19.00	13.888			
4,400.0	4,396.1	4,406.2	4,399.1	9.7	9.7	168.91	-179.0	10.7	263.9	244.5	19.42	13.592			
4,500.0	4,496.1	4,506.2	4,499.1	9.9	9.9	168.91	-179.0	10.7	263.9	244.1	19.83	13.307			
4,600.0	4,596.1	4,606.2	4,599.1	10.2	10.1	168.91	-179.0	10.7	263.9	243.7	20.25	13.033			
4,700.0	4,696.1	4,706.2	4,699.1	10.4	10.3	168.91	-179.0	10.7	263.9	243.3	20.67	12.769			
4,800.0	4,796.1	4,806.2	4,799.1	10.6	10.5	168.91	-179.0	10.7	263.9	242.8	21.09	12.515			
4,900.0	4,896.1	4,906.2	4,899.1	10.8	10.7	168.91	-179.0	10.7	263.9	242.4	21.51	12.270			

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design		SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms 22-4-3CHZ - Wellbore #1 - Plan #2 (4-21-1										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		
5,000.0	4,996.1	5,006.2	4,999.1	11.0	10.9	168.91	-179.0	10.7	263.9	242.0	21.93	12.034		
5,100.0	5,096.1	5,106.2	5,099.1	11.3	11.1	168.91	-179.0	10.7	263.9	241.6	22.36	11.806		
5,200.0	5,196.1	5,206.2	5,199.1	11.5	11.3	168.91	-179.0	10.7	263.9	241.2	22.78	11.586		
5,300.0	5,296.1	5,306.2	5,299.1	11.7	11.5	168.91	-179.0	10.7	263.9	240.7	23.21	11.374		
5,400.0	5,396.1	5,406.2	5,399.1	11.9	11.7	168.91	-179.0	10.7	263.9	240.3	23.63	11.169		
5,500.0	5,496.1	5,506.2	5,499.1	12.2	11.9	168.91	-179.0	10.7	263.9	239.9	24.06	10.971		
5,600.0	5,596.1	5,606.2	5,599.1	12.4	12.1	168.91	-179.0	10.7	263.9	239.4	24.49	10.779		
5,700.0	5,696.1	5,706.2	5,699.1	12.6	12.3	168.91	-179.0	10.7	263.9	239.0	24.91	10.594		
5,800.0	5,796.1	5,806.2	5,799.1	12.8	12.5	168.91	-179.0	10.7	263.9	238.6	25.34	10.414		
5,900.0	5,896.1	5,906.2	5,899.1	13.0	12.8	168.91	-179.0	10.7	263.9	238.2	25.77	10.241		
6,000.0	5,996.1	6,006.2	5,999.1	13.3	13.0	168.91	-179.0	10.7	263.9	237.7	26.20	10.072		
6,100.0	6,096.1	6,106.2	6,099.1	13.5	13.2	168.91	-179.0	10.7	263.9	237.3	26.64	9.909		
6,200.0	6,196.1	6,206.2	6,199.1	13.7	13.4	168.91	-179.0	10.7	263.9	236.9	27.07	9.751		
6,300.0	6,296.1	6,306.2	6,299.1	13.9	13.6	78.67	-179.0	10.7	263.8	236.7	27.12	9.727		
6,400.0	6,395.5	6,405.5	6,398.5	14.1	13.8	81.08	-179.0	10.7	261.9	234.4	27.54	9.512		
6,500.0	6,492.7	6,502.7	6,495.7	14.3	14.0	86.17	-179.0	10.7	259.3	231.3	27.97	9.270		
6,560.8	6,550.0	6,560.3	6,553.2	14.4	14.1	90.08	-179.0	12.3	258.6	230.4	28.25	9.155		
6,600.0	6,586.2	6,598.1	6,590.8	14.5	14.2	92.59	-179.0	15.8	258.9	230.5	28.43	9.108		
6,700.0	6,674.5	6,697.7	6,688.6	14.8	14.4	98.80	-179.0	34.5	261.8	232.9	28.90	9.058		
6,800.0	6,756.2	6,802.1	6,787.2	15.2	14.7	104.60	-179.1	68.3	267.5	238.1	29.40	9.099		
6,900.0	6,830.0	6,911.6	6,884.2	15.8	15.1	109.81	-179.1	118.9	275.1	245.1	29.95	9.184		
7,000.0	6,894.7	7,026.4	6,976.4	16.6	15.7	114.28	-179.2	187.1	283.5	252.9	30.67	9.246		
7,100.0	6,949.2	7,146.2	7,059.8	17.7	16.5	117.93	-179.2	273.0	291.7	260.0	31.70	9.204		
7,200.0	6,992.7	7,270.6	7,129.9	19.1	17.8	120.70	-179.3	375.6	298.6	265.4	33.26	8.980		
7,300.0	7,024.4	7,398.6	7,182.4	20.8	19.7	122.56	-179.4	492.1	303.4	267.9	35.49	8.549		
7,400.0	7,044.0	7,528.8	7,213.7	22.7	22.0	123.47	-179.5	618.3	305.4	266.9	38.52	7.929		
7,500.0	7,051.0	7,654.4	7,222.0	24.8	24.6	123.48	-179.6	743.5	304.5	262.3	42.21	7.215		
7,546.7	7,051.2	7,701.1	7,222.0	25.8	25.6	123.47	-179.7	790.2	304.2	260.3	43.89	6.931		
7,600.0	7,051.0	7,754.4	7,222.0	27.0	26.8	123.49	-179.7	843.5	304.4	258.6	45.85	6.640		
7,700.0	7,051.0	7,854.4	7,222.0	29.3	29.0	123.49	-179.8	943.5	304.4	254.7	49.69	6.127		
7,800.0	7,051.0	7,954.4	7,222.0	31.6	31.4	123.50	-179.9	1,043.5	304.4	250.7	53.68	5.671		
7,900.0	7,051.0	8,054.4	7,222.0	34.1	33.9	123.50	-180.1	1,143.5	304.4	246.6	57.78	5.268		
8,000.0	7,051.0	8,154.4	7,222.0	36.6	36.3	123.50	-180.2	1,243.5	304.4	242.4	61.98	4.911		
8,100.0	7,051.0	8,254.4	7,222.0	39.1	38.9	123.50	-180.3	1,343.5	304.4	238.1	66.25	4.594		
8,200.0	7,051.0	8,354.4	7,222.0	41.7	41.5	123.50	-180.4	1,443.5	304.4	233.8	70.59	4.312		
8,300.0	7,051.0	8,454.4	7,222.0	44.3	44.1	123.50	-180.5	1,543.5	304.3	229.4	74.98	4.059		
8,400.0	7,051.0	8,554.4	7,222.0	46.9	46.7	123.51	-180.6	1,643.5	304.3	224.9	79.41	3.832		
8,500.0	7,051.0	8,654.4	7,222.0	49.6	49.3	123.51	-180.7	1,743.5	304.3	220.4	83.88	3.628		
8,600.0	7,051.0	8,754.4	7,222.0	52.2	52.0	123.51	-180.9	1,843.5	304.3	215.9	88.37	3.443		
8,700.0	7,051.0	8,854.4	7,222.0	54.9	54.7	123.51	-181.0	1,943.5	304.3	211.4	92.89	3.276		
8,800.0	7,051.0	8,954.4	7,222.0	57.6	57.4	123.51	-181.1	2,043.5	304.3	206.8	97.44	3.123		
8,900.0	7,051.0	9,054.4	7,222.0	60.3	60.1	123.51	-181.2	2,143.5	304.3	202.3	102.00	2.983		
9,000.0	7,051.0	9,154.4	7,222.0	63.0	62.8	123.52	-181.3	2,243.5	304.3	197.7	106.58	2.855		
9,100.0	7,051.0	9,254.4	7,222.0	65.7	65.5	123.52	-181.4	2,343.5	304.2	193.1	111.18	2.736		
9,200.0	7,051.0	9,354.4	7,222.0	68.5	68.2	123.52	-181.5	2,443.5	304.2	188.4	115.79	2.627		
9,300.0	7,051.0	9,454.4	7,222.0	71.2	70.9	123.52	-181.6	2,543.5	304.2	183.8	120.41	2.527		
9,400.0	7,051.0	9,554.4	7,222.0	73.9	73.7	123.52	-181.8	2,643.5	304.2	179.2	125.04	2.433		
9,500.0	7,051.0	9,654.4	7,222.0	76.7	76.4	123.52	-181.9	2,743.5	304.2	174.5	129.68	2.346		
9,600.0	7,051.0	9,754.4	7,222.0	79.4	79.2	123.53	-182.0	2,843.5	304.2	169.9	134.32	2.264		
9,700.0	7,051.0	9,854.4	7,222.0	82.2	81.9	123.53	-182.1	2,943.5	304.2	165.2	138.98	2.189		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design														Offset Site Error:	0.0 ft
SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms 22-4-3CHZ - Wellbore #1 - Plan #2 (4-21-1)														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		
9,800.0	7,051.0	9,954.4	7,222.0	84.9	84.7	123.53	-182.2	3,043.5	304.1	160.5	143.64	2.117			
9,900.0	7,051.0	10,054.4	7,222.0	87.7	87.4	123.53	-182.3	3,143.5	304.1	155.8	148.31	2.051			
10,000.0	7,051.0	10,154.4	7,222.0	90.4	90.2	123.53	-182.4	3,243.5	304.1	151.1	152.98	1.988			
10,100.0	7,051.0	10,254.4	7,222.0	93.2	93.0	123.53	-182.6	3,343.5	304.1	146.5	157.66	1.929			
10,200.0	7,051.0	10,354.4	7,222.0	96.0	95.7	123.54	-182.7	3,443.5	304.1	141.8	162.34	1.873			
10,300.0	7,051.0	10,454.4	7,222.0	98.7	98.5	123.54	-182.8	3,543.5	304.1	137.1	167.02	1.821			
10,400.0	7,051.0	10,554.4	7,222.0	101.5	101.3	123.54	-182.9	3,643.5	304.1	132.4	171.71	1.771			
10,500.0	7,051.0	10,654.4	7,222.0	104.3	104.1	123.54	-183.0	3,743.5	304.1	127.7	176.40	1.724			
10,600.0	7,051.0	10,754.4	7,222.0	107.1	106.8	123.54	-183.1	3,843.5	304.0	122.9	181.10	1.679			
10,700.0	7,051.0	10,854.4	7,222.0	109.8	109.6	123.54	-183.2	3,943.5	304.0	118.2	185.80	1.636			
10,800.0	7,051.0	10,954.4	7,222.0	112.6	112.4	123.55	-183.4	4,043.5	304.0	113.5	190.50	1.596			
10,900.0	7,051.0	11,054.4	7,222.0	115.4	115.2	123.55	-183.5	4,143.5	304.0	108.8	195.20	1.557			
11,000.0	7,051.0	11,154.4	7,222.0	118.2	118.0	123.55	-183.6	4,243.5	304.0	104.1	199.91	1.521			
11,100.0	7,051.0	11,254.4	7,222.0	121.0	120.7	123.55	-183.7	4,343.5	304.0	99.4	204.62	1.486 Level 3			
11,200.0	7,051.0	11,354.4	7,222.0	123.7	123.5	123.55	-183.8	4,443.5	304.0	94.6	209.33	1.452 Level 3			
11,300.0	7,051.0	11,454.4	7,222.0	126.5	126.3	123.55	-183.9	4,543.5	304.0	89.9	214.04	1.420 Level 3			
11,400.0	7,051.0	11,554.4	7,222.0	129.3	129.1	123.56	-184.0	4,643.5	303.9	85.2	218.75	1.389 Level 3			
11,500.0	7,051.0	11,654.4	7,222.0	132.1	131.9	123.56	-184.1	4,743.5	303.9	80.5	223.47	1.360 Level 3			
11,600.0	7,051.0	11,754.4	7,222.0	134.9	134.7	123.56	-184.3	4,843.5	303.9	75.7	228.18	1.332 Level 3			
11,700.0	7,051.0	11,854.4	7,222.0	137.7	137.5	123.56	-184.4	4,943.5	303.9	71.0	232.90	1.305 Level 3			
11,800.0	7,051.0	11,954.4	7,222.0	140.5	140.2	123.56	-184.5	5,043.5	303.9	66.3	237.62	1.279 Level 3			
11,830.2	7,051.0	11,984.6	7,222.0	141.3	141.1	123.56	-184.5	5,073.7	303.9	64.8	239.04	1.271 Level 3			
11,853.8	7,051.0	11,988.0	7,222.0	142.0	141.2	123.56	-184.5	5,077.1	304.6	64.9	239.68	1.271 Level 3, SF			

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms A-4-3CHZ - Wellbore #1 - Plan #2 (4-21-14)											Offset Site Error: 0.0 ft		
Survey Program: 0-MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.0	0.0	1.0	1.0	0.0	0.0	-11.33	22.2	-4.5	22.7	22.7	0.00	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	-11.33	22.2	-4.5	22.7	22.4	0.23	99.840	
200.0	200.0	201.0	201.0	0.3	0.3	-11.33	22.2	-4.5	22.7	22.0	0.68	33.501	
300.0	300.0	301.0	301.0	0.6	0.6	-11.33	22.2	-4.5	22.7	21.5	1.13	20.128	
400.0	400.0	401.0	401.0	0.8	0.8	-11.33	22.2	-4.5	22.7	21.1	1.58	14.385	
500.0	500.0	501.0	501.0	1.0	1.0	-11.33	22.2	-4.5	22.7	20.6	2.03	11.192	
600.0	600.0	601.0	601.0	1.2	1.2	-11.33	22.2	-4.5	22.7	20.2	2.47	9.159	
700.0	700.0	701.0	701.0	1.5	1.5	-11.33	22.2	-4.5	22.7	19.7	2.92	7.751	
766.3	766.3	767.3	767.3	1.6	1.6	-11.33	22.2	-4.5	22.7	19.4	3.22	7.034 CC	
800.0	800.0	801.0	801.0	1.7	1.7	-11.33	22.2	-4.5	22.7	19.3	3.37	6.718 ES	
900.0	900.0	900.0	900.0	1.9	1.9	-9.72	23.9	-4.1	24.3	20.5	3.82	6.359	
1,000.0	1,000.0	999.2	999.1	2.1	2.1	-6.00	29.0	-3.1	29.2	25.0	4.27	6.841	
1,100.0	1,100.0	1,097.9	1,097.3	2.4	2.4	25.63	37.4	-1.3	36.0	31.3	4.72	7.628	
1,200.0	1,199.8	1,196.2	1,194.9	2.6	2.6	31.96	49.0	1.1	43.4	38.2	5.17	8.398	
1,300.0	1,299.5	1,294.7	1,292.3	2.8	2.9	38.73	63.7	4.1	51.6	46.0	5.62	9.179	
1,400.0	1,399.0	1,394.2	1,390.6	3.1	3.2	44.31	79.0	7.3	60.2	54.1	6.09	9.881	
1,500.0	1,498.5	1,493.7	1,488.8	3.3	3.5	48.48	94.4	10.5	69.2	62.6	6.57	10.528	
1,600.0	1,598.1	1,593.2	1,587.0	3.6	3.8	51.67	109.8	13.7	78.5	71.4	7.07	11.109	
1,700.0	1,697.6	1,692.7	1,685.3	3.8	4.1	54.18	125.1	16.8	88.0	80.4	7.57	11.624	
1,800.0	1,797.1	1,792.1	1,783.5	4.1	4.4	56.20	140.5	20.0	97.6	89.5	8.08	12.079	
1,900.0	1,896.7	1,891.6	1,881.7	4.3	4.8	57.86	155.9	23.2	107.4	98.7	8.60	12.480	
2,000.0	1,996.3	1,991.1	1,980.0	4.6	5.1	58.98	171.2	26.4	117.6	108.5	9.10	12.926	
2,100.0	2,096.1	2,090.3	2,078.0	4.8	5.5	58.72	186.6	29.6	129.6	120.1	9.54	13.594	
2,200.0	2,196.1	2,189.3	2,175.7	5.0	5.8	57.38	201.8	32.7	143.5	133.6	9.94	14.431	
2,300.0	2,296.1	2,288.0	2,273.2	5.1	6.1	28.96	217.1	35.9	158.5	147.4	11.06	14.328	
2,400.0	2,396.1	2,386.8	2,370.7	5.4	6.5	27.42	232.4	39.0	173.7	162.0	11.64	14.921	
2,500.0	2,496.1	2,485.5	2,468.2	5.6	6.8	26.12	247.6	42.2	188.9	176.7	12.21	15.467	
2,600.0	2,596.1	2,585.6	2,567.1	5.8	7.2	25.01	263.0	45.4	204.2	191.4	12.79	15.968	
2,700.0	2,696.1	2,692.4	2,672.9	6.0	7.5	24.14	276.9	48.2	217.1	203.8	13.30	16.329	
2,800.0	2,796.1	2,800.1	2,780.1	6.2	7.7	23.58	286.9	50.3	226.4	212.7	13.77	16.445	
2,900.0	2,896.1	2,908.4	2,888.2	6.4	7.9	23.26	293.1	51.6	232.1	217.9	14.21	16.340	
3,000.0	2,996.1	3,017.1	2,996.9	6.6	8.1	23.16	295.2	52.0	234.1	219.5	14.61	16.027	
3,100.0	3,096.1	3,117.3	3,097.1	6.9	8.3	23.16	295.2	52.0	234.1	219.1	14.99	15.616	
3,200.0	3,196.1	3,217.3	3,197.1	7.1	8.5	23.16	295.2	52.0	234.1	218.7	15.39	15.213	
3,300.0	3,296.1	3,317.3	3,297.1	7.3	8.6	23.16	295.2	52.0	234.1	218.3	15.79	14.828	
3,400.0	3,396.1	3,417.3	3,397.1	7.5	8.8	23.16	295.2	52.0	234.1	217.9	16.19	14.460	
3,500.0	3,496.1	3,517.3	3,497.1	7.7	9.0	23.16	295.2	52.0	234.1	217.5	16.59	14.108	
3,600.0	3,596.1	3,617.3	3,597.1	8.0	9.2	23.16	295.2	52.0	234.1	217.1	17.00	13.771	
3,700.0	3,696.1	3,717.3	3,697.1	8.2	9.4	23.16	295.2	52.0	234.1	216.7	17.41	13.448	
3,800.0	3,796.1	3,817.3	3,797.1	8.4	9.6	23.16	295.2	52.0	234.1	216.3	17.82	13.139	
3,900.0	3,896.1	3,917.3	3,897.1	8.6	9.7	23.16	295.2	52.0	234.1	215.9	18.23	12.842	
4,000.0	3,996.1	4,017.3	3,997.1	8.8	9.9	23.16	295.2	52.0	234.1	215.4	18.64	12.557	
4,100.0	4,096.1	4,117.3	4,097.1	9.1	10.1	23.16	295.2	52.0	234.1	215.0	19.06	12.284	
4,200.0	4,196.1	4,217.3	4,197.1	9.3	10.3	23.16	295.2	52.0	234.1	214.6	19.47	12.022	
4,300.0	4,296.1	4,317.3	4,297.1	9.5	10.5	23.16	295.2	52.0	234.1	214.2	19.89	11.769	
4,400.0	4,396.1	4,417.3	4,397.1	9.7	10.7	23.16	295.2	52.0	234.1	213.8	20.31	11.527	
4,500.0	4,496.1	4,517.3	4,497.1	9.9	10.9	23.16	295.2	52.0	234.1	213.4	20.73	11.293	
4,600.0	4,596.1	4,617.3	4,597.1	10.2	11.1	23.16	295.2	52.0	234.1	212.9	21.15	11.068	
4,700.0	4,696.1	4,717.3	4,697.1	10.4	11.3	23.16	295.2	52.0	234.1	212.5	21.57	10.851	
4,800.0	4,796.1	4,817.3	4,797.1	10.6	11.5	23.16	295.2	52.0	234.1	212.1	21.99	10.643	
4,900.0	4,896.1	4,917.3	4,897.1	10.8	11.7	23.16	295.2	52.0	234.1	211.7	22.42	10.441	

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design										SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms A-4-3CHZ - Wellbore #1 - Plan #2 (4-21-14)				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		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor				
							+N/-S (ft)	+E/-W (ft)								
5,000.0	4,996.1	5,017.3	4,997.1	11.0	11.9	23.16	295.2	52.0	234.1	211.2	22.84	10.247				
5,100.0	5,096.1	5,117.3	5,097.1	11.3	12.1	23.16	295.2	52.0	234.1	210.8	23.27	10.059				
5,200.0	5,196.1	5,217.3	5,197.1	11.5	12.3	23.16	295.2	52.0	234.1	210.4	23.70	9.878				
5,300.0	5,296.1	5,317.3	5,297.1	11.7	12.5	23.16	295.2	52.0	234.1	210.0	24.12	9.703				
5,400.0	5,396.1	5,417.3	5,397.1	11.9	12.7	23.16	295.2	52.0	234.1	209.5	24.55	9.534				
5,500.0	5,496.1	5,517.3	5,497.1	12.2	12.9	23.16	295.2	52.0	234.1	209.1	24.98	9.370				
5,600.0	5,596.1	5,617.3	5,597.1	12.4	13.1	23.16	295.2	52.0	234.1	208.7	25.41	9.212				
5,700.0	5,696.1	5,717.3	5,697.1	12.6	13.3	23.16	295.2	52.0	234.1	208.2	25.84	9.058				
5,800.0	5,796.1	5,817.3	5,797.1	12.8	13.5	23.16	295.2	52.0	234.1	207.8	26.27	8.910				
5,900.0	5,896.1	5,917.3	5,897.1	13.0	13.7	23.16	295.2	52.0	234.1	207.4	26.70	8.766				
6,000.0	5,996.1	6,017.3	5,997.1	13.3	14.0	23.16	295.2	52.0	234.1	206.9	27.14	8.626				
6,100.0	6,096.1	6,117.3	6,097.1	13.5	14.2	23.16	295.2	52.0	234.1	206.5	27.57	8.491				
6,200.0	6,196.1	6,217.3	6,197.1	13.7	14.4	23.16	295.2	52.0	234.1	206.1	28.00	8.359				
6,300.0	6,296.1	6,317.3	6,297.1	13.9	14.6	-67.44	295.2	52.0	233.8	206.0	27.83	8.400				
6,400.0	6,395.5	6,416.7	6,396.5	14.1	14.8	-70.14	295.2	52.0	229.9	201.7	28.22	8.146				
6,500.0	6,492.7	6,513.9	6,493.7	14.3	15.0	-76.07	295.2	52.0	223.0	194.4	28.61	7.796				
6,600.0	6,586.2	6,604.8	6,584.5	14.5	15.2	-83.74	295.2	56.0	217.3	188.3	29.04	7.483				
6,677.6	6,655.2	6,677.1	6,655.9	14.7	15.3	-89.79	295.2	67.3	216.0	186.5	29.45	7.333				
6,700.0	6,674.5	6,698.5	6,676.7	14.8	15.4	-91.54	295.2	72.0	216.1	186.5	29.56	7.309				
6,800.0	6,756.2	6,796.6	6,770.2	15.2	15.6	-99.14	295.1	101.4	219.2	189.1	30.13	7.277				
6,900.0	6,830.0	6,899.4	6,862.9	15.8	15.9	-106.18	295.1	145.7	226.1	195.5	30.68	7.371				
7,000.0	6,894.7	7,007.5	6,952.5	16.6	16.4	-112.40	295.0	206.0	235.7	204.5	31.23	7.547				
7,100.0	6,949.2	7,121.0	7,035.7	17.7	17.0	-117.65	294.8	283.0	246.7	214.8	31.90	7.733				
7,200.0	6,992.7	7,239.9	7,108.6	19.1	18.1	-121.84	294.7	376.7	257.7	224.8	32.85	7.844				
7,300.0	7,024.4	7,363.7	7,167.0	20.8	19.6	-124.98	294.5	485.7	267.4	233.1	34.29	7.799				
7,400.0	7,044.0	7,491.7	7,206.7	22.7	21.7	-127.07	294.3	607.2	274.9	238.5	36.38	7.556				
7,500.0	7,051.0	7,622.4	7,224.3	24.8	24.2	-128.13	294.1	736.6	279.3	240.1	39.22	7.122				
7,600.0	7,051.0	7,729.9	7,225.0	27.0	26.4	-128.21	293.9	844.1	279.7	237.0	42.68	6.553				
7,700.0	7,051.0	7,829.9	7,225.0	29.3	28.7	-128.21	293.8	944.1	279.7	233.4	46.25	6.047				
7,800.0	7,051.0	7,929.9	7,225.0	31.6	31.0	-128.21	293.7	1,044.1	279.7	229.7	49.97	5.597				
7,900.0	7,051.0	8,029.9	7,225.0	34.1	33.3	-128.21	293.6	1,144.1	279.7	225.9	53.81	5.198				
8,000.0	7,051.0	8,129.9	7,225.0	36.6	35.8	-128.21	293.4	1,244.1	279.7	222.0	57.75	4.843				
8,100.0	7,051.0	8,229.9	7,225.0	39.1	38.3	-128.21	293.3	1,344.1	279.7	218.0	61.76	4.529				
8,200.0	7,051.0	8,329.9	7,225.0	41.7	40.8	-128.20	293.2	1,444.1	279.7	213.9	65.84	4.248				
8,300.0	7,051.0	8,429.9	7,225.0	44.3	43.4	-128.20	293.1	1,544.1	279.7	209.8	69.97	3.998				
8,400.0	7,051.0	8,529.9	7,225.0	46.9	46.0	-128.20	293.0	1,644.1	279.7	205.6	74.14	3.773				
8,500.0	7,051.0	8,629.9	7,225.0	49.6	48.6	-128.20	292.8	1,744.1	279.7	201.4	78.35	3.570				
8,600.0	7,051.0	8,729.9	7,225.0	52.2	51.3	-128.20	292.7	1,844.1	279.7	197.2	82.59	3.387				
8,700.0	7,051.0	8,829.9	7,225.0	54.9	53.9	-128.20	292.6	1,944.1	279.7	192.9	86.86	3.221				
8,800.0	7,051.0	8,929.9	7,225.0	57.6	56.6	-128.20	292.5	2,044.1	279.8	188.6	91.15	3.069				
8,900.0	7,051.0	9,029.9	7,225.0	60.3	59.3	-128.20	292.3	2,144.1	279.8	184.3	95.46	2.931				
9,000.0	7,051.0	9,129.9	7,225.0	63.0	62.0	-128.20	292.2	2,244.1	279.8	180.0	99.78	2.804				
9,100.0	7,051.0	9,229.9	7,225.0	65.7	64.7	-128.20	292.1	2,344.1	279.8	175.6	104.12	2.687				
9,200.0	7,051.0	9,329.9	7,225.0	68.5	67.4	-128.20	292.0	2,444.1	279.8	171.3	108.48	2.579				
9,300.0	7,051.0	9,429.9	7,225.0	71.2	70.1	-128.19	291.9	2,544.1	279.8	166.9	112.85	2.479				
9,400.0	7,051.0	9,529.9	7,225.0	73.9	72.9	-128.19	291.7	2,644.1	279.8	162.6	117.22	2.387				
9,500.0	7,051.0	9,629.9	7,225.0	76.7	75.6	-128.19	291.6	2,744.1	279.8	158.2	121.61	2.301				
9,600.0	7,051.0	9,729.9	7,225.0	79.4	78.3	-128.19	291.5	2,844.1	279.8	153.8	126.00	2.221				
9,700.0	7,051.0	9,829.9	7,225.0	82.2	81.1	-128.19	291.4	2,944.1	279.8	149.4	130.40	2.146				
9,800.0	7,051.0	9,929.9	7,225.0	84.9	83.8	-128.19	291.2	3,044.1	279.8	145.0	134.81	2.076				

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design		SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms A-4-3CHZ - Wellbore #1 - Plan #2 (4-21-14)									Offset Site Error:		0.0 ft		
Survey Program: 0-MWD											Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance								
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
9,900.0	7,051.0	10,029.9	7,225.0	87.7	86.6	-128.19	291.1	3,144.1	279.8	140.6	139.23	2.010			
10,000.0	7,051.0	10,129.9	7,225.0	90.4	89.3	-128.19	291.0	3,244.1	279.8	136.2	143.64	1.948			
10,100.0	7,051.0	10,229.9	7,225.0	93.2	92.1	-128.19	290.9	3,344.1	279.8	131.8	148.07	1.890			
10,200.0	7,051.0	10,329.9	7,225.0	96.0	94.9	-128.19	290.8	3,444.1	279.8	127.3	152.50	1.835			
10,300.0	7,051.0	10,429.9	7,225.0	98.7	97.6	-128.18	290.6	3,544.1	279.8	122.9	156.93	1.783			
10,400.0	7,051.0	10,529.9	7,225.0	101.5	100.4	-128.18	290.5	3,644.1	279.8	118.5	161.37	1.734			
10,500.0	7,051.0	10,629.9	7,225.0	104.3	103.2	-128.18	290.4	3,744.1	279.9	114.0	165.81	1.688			
10,600.0	7,051.0	10,729.9	7,225.0	107.1	105.9	-128.18	290.3	3,844.1	279.9	109.6	170.26	1.644			
10,700.0	7,051.0	10,829.9	7,225.0	109.8	108.7	-128.18	290.2	3,944.1	279.9	105.2	174.71	1.602			
10,800.0	7,051.0	10,929.9	7,225.0	112.6	111.5	-128.18	290.0	4,044.1	279.9	100.7	179.16	1.562			
10,900.0	7,051.0	11,029.9	7,225.0	115.4	114.3	-128.18	289.9	4,144.1	279.9	96.3	183.61	1.524			
11,000.0	7,051.0	11,129.9	7,225.0	118.2	117.0	-128.18	289.8	4,244.1	279.9	91.8	188.07	1.488	Level 3		
11,100.0	7,051.0	11,229.9	7,225.0	121.0	119.8	-128.18	289.7	4,344.1	279.9	87.4	192.52	1.454	Level 3		
11,200.0	7,051.0	11,329.9	7,225.0	123.7	122.6	-128.18	289.5	4,444.1	279.9	82.9	196.98	1.421	Level 3		
11,300.0	7,051.0	11,429.9	7,225.0	126.5	125.4	-128.18	289.4	4,544.1	279.9	78.5	201.45	1.389	Level 3		
11,400.0	7,051.0	11,529.9	7,225.0	129.3	128.2	-128.17	289.3	4,644.1	279.9	74.0	205.91	1.359	Level 3		
11,500.0	7,051.0	11,629.9	7,225.0	132.1	130.9	-128.17	289.2	4,744.1	279.9	69.5	210.38	1.331	Level 3		
11,600.0	7,051.0	11,729.9	7,225.0	134.9	133.7	-128.17	289.1	4,844.1	279.9	65.1	214.85	1.303	Level 3		
11,700.0	7,051.0	11,829.9	7,225.0	137.7	136.5	-128.17	288.9	4,944.1	279.9	60.6	219.31	1.276	Level 3		
11,800.0	7,051.0	11,929.9	7,225.0	140.5	139.3	-128.17	288.8	5,044.1	279.9	56.1	223.79	1.251	Level 3		
11,853.8	7,051.0	11,983.8	7,225.0	142.0	140.8	-128.17	288.7	5,097.9	279.9	53.7	226.19	1.238	Level 2, SF		

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms A-4-3NHZ - Wellbore #1 - Plan #2 (4-21-14)														Offset Site Error: 0.0ft
Survey Program: 0-MWD														Offset Well Error: 0.0ft
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	2.0	2.0	0.0	0.0	-72.00	14.2	-43.7	46.0	46.0	0.00	N/A		
100.0	100.0	102.0	102.0	0.1	0.1	-72.00	14.2	-43.7	46.0	45.7	0.23	200.460		
166.0	166.0	168.0	168.0	0.3	0.3	-72.00	14.2	-43.7	46.0	45.4	0.53	87.390 CC		
200.0	200.0	202.0	202.0	0.3	0.3	-72.00	14.2	-43.7	46.0	45.3	0.68	67.705 ES		
300.0	300.0	301.5	301.5	0.6	0.6	-69.88	16.0	-43.7	46.5	45.4	1.13	41.213		
400.0	400.0	400.7	400.6	0.8	0.8	-64.01	21.2	-43.6	48.5	46.9	1.59	30.557		
500.0	500.0	499.5	499.0	1.0	1.0	-55.46	29.8	-43.4	52.7	50.7	2.05	25.697		
600.0	600.0	598.9	597.8	1.2	1.3	-46.90	40.4	-43.1	59.2	56.7	2.51	23.554		
700.0	700.0	698.3	696.7	1.5	1.6	-40.12	50.9	-42.9	66.8	63.8	2.97	22.510		
800.0	800.0	797.8	795.6	1.7	1.9	-34.78	61.4	-42.7	75.1	71.7	3.42	21.962		
900.0	900.0	897.2	894.4	1.9	2.2	-30.53	72.0	-42.4	83.9	80.0	3.87	21.671		
1,000.0	1,000.0	996.7	993.3	2.1	2.4	-27.09	82.5	-42.2	93.1	88.8	4.33	21.517		
1,100.0	1,100.0	1,096.2	1,092.3	2.4	2.7	2.32	93.1	-42.0	100.8	96.0	4.84	20.841		
1,200.0	1,199.8	1,196.0	1,191.6	2.6	3.0	4.91	103.6	-41.7	105.3	100.0	5.29	19.909		
1,300.0	1,299.5	1,295.9	1,290.9	2.8	3.3	7.52	114.2	-41.5	106.6	100.8	5.74	18.575		
1,400.0	1,399.0	1,395.8	1,390.2	3.1	3.6	10.16	124.8	-41.3	107.1	100.9	6.19	17.288		
1,500.0	1,498.5	1,495.6	1,489.5	3.3	3.9	12.77	135.4	-41.0	107.8	101.1	6.65	16.208		
1,600.0	1,598.1	1,595.5	1,588.8	3.6	4.2	15.34	145.9	-40.8	108.7	101.6	7.11	15.292		
1,700.0	1,697.6	1,695.4	1,688.1	3.8	4.5	17.86	156.5	-40.6	109.9	102.3	7.57	14.510		
1,800.0	1,797.1	1,795.3	1,787.4	4.1	4.8	20.33	167.1	-40.3	111.3	103.2	8.04	13.837		
1,900.0	1,896.7	1,895.2	1,886.8	4.3	5.1	22.73	177.7	-40.1	112.8	104.3	8.51	13.254		
2,000.0	1,996.3	1,995.0	1,986.1	4.6	5.4	24.88	188.3	-39.9	115.4	106.5	8.97	12.869		
2,100.0	2,096.1	2,094.8	2,085.3	4.8	5.7	26.25	198.8	-39.6	121.2	111.8	9.38	12.916		
2,200.0	2,196.1	2,194.4	2,184.3	5.0	6.0	26.82	209.4	-39.4	130.1	120.3	9.79	13.297		
2,300.0	2,296.1	2,293.8	2,283.2	5.1	6.2	0.33	219.9	-39.2	140.7	129.4	11.33	12.417		
2,400.0	2,396.1	2,393.3	2,382.1	5.4	6.5	0.40	230.5	-39.0	151.3	139.5	11.84	12.782		
2,500.0	2,496.1	2,492.7	2,481.0	5.6	6.8	0.46	241.0	-38.7	161.9	149.6	12.34	13.115		
2,600.0	2,596.1	2,592.2	2,579.8	5.8	7.1	0.50	251.5	-38.5	172.5	159.6	12.85	13.422		
2,700.0	2,696.1	2,691.6	2,678.7	6.0	7.4	0.55	262.1	-38.3	183.1	169.7	13.36	13.704		
2,800.0	2,796.1	2,791.0	2,777.6	6.2	7.7	0.59	272.6	-38.0	193.7	179.8	13.87	13.965		
2,900.0	2,896.1	2,890.5	2,876.5	6.4	8.0	0.62	283.1	-37.8	204.3	189.9	14.38	14.206		
3,000.0	2,996.1	2,989.9	2,975.3	6.6	8.3	0.65	293.7	-37.6	214.9	200.0	14.89	14.431		
3,100.0	3,096.1	3,089.3	3,074.2	6.9	8.6	0.68	304.2	-37.3	225.5	210.1	15.40	14.640		
3,200.0	3,196.1	3,188.8	3,173.1	7.1	8.9	0.71	314.7	-37.1	236.1	220.2	15.91	14.836		
3,300.0	3,296.1	3,288.2	3,272.0	7.3	9.2	0.73	325.3	-36.9	246.7	230.2	16.42	15.018		
3,400.0	3,396.1	3,387.7	3,370.8	7.5	9.5	0.75	335.8	-36.6	257.3	240.3	16.94	15.190		
3,500.0	3,496.1	3,487.1	3,469.7	7.7	9.8	0.77	346.3	-36.4	267.9	250.4	17.45	15.351		
3,600.0	3,596.1	3,586.5	3,568.6	8.0	10.1	0.79	356.9	-36.2	278.4	260.5	17.96	15.502		
3,700.0	3,696.1	3,686.0	3,667.5	8.2	10.3	0.81	367.4	-35.9	289.0	270.6	18.47	15.645		
3,800.0	3,796.1	3,785.4	3,766.4	8.4	10.6	0.83	377.9	-35.7	299.6	280.7	18.99	15.780		
3,900.0	3,896.1	3,884.8	3,865.2	8.6	10.9	0.84	388.5	-35.5	310.2	290.7	19.50	15.908		
4,000.0	3,996.1	3,984.3	3,964.1	8.8	11.2	0.85	399.0	-35.2	320.8	300.8	20.02	16.029		
4,100.0	4,096.1	4,083.7	4,063.0	9.1	11.5	0.87	409.5	-35.0	331.4	310.9	20.53	16.144		
4,200.0	4,196.1	4,183.1	4,161.9	9.3	11.8	0.88	420.1	-34.8	342.0	321.0	21.04	16.253		
4,300.0	4,296.1	4,282.6	4,260.7	9.5	12.1	0.89	430.6	-34.6	352.6	331.1	21.56	16.356		
4,400.0	4,396.1	4,382.0	4,359.6	9.7	12.4	0.90	441.1	-34.3	363.2	341.1	22.07	16.455		
4,500.0	4,496.1	4,481.5	4,458.5	9.9	12.7	0.91	451.7	-34.1	373.8	351.2	22.59	16.549		
4,600.0	4,596.1	4,580.9	4,557.4	10.2	13.0	0.92	462.2	-33.9	384.4	361.3	23.10	16.639		
4,700.0	4,696.1	4,680.3	4,656.3	10.4	13.3	0.93	472.7	-33.6	395.0	371.4	23.62	16.724		
4,800.0	4,796.1	4,779.8	4,755.1	10.6	13.6	0.94	483.3	-33.4	405.6	381.5	24.13	16.806		
4,900.0	4,896.1	4,879.2	4,854.0	10.8	13.9	0.95	493.8	-33.2	416.2	391.5	24.65	16.885		

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

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Offset Design		SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms A-4-3NHZ - Wellbore #1 - Plan #2 (4-21-14)										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		Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
							+N/-S (ft)	+E/-W (ft)							
5,000.0	4,996.1	4,988.6	4,962.8	11.0	14.2	0.95	504.6	-32.9	426.1	401.0	25.17	16.933			
5,100.0	5,096.1	5,106.0	5,080.0	11.3	14.4	0.96	511.9	-32.8	432.4	406.7	25.62	16.876			
5,200.0	5,196.1	5,223.8	5,197.8	11.5	14.6	0.96	514.4	-32.7	434.5	408.5	26.03	16.693			
5,300.0	5,296.1	5,324.1	5,298.1	11.7	14.7	0.96	514.4	-32.7	434.5	408.1	26.41	16.451			
5,400.0	5,396.1	5,424.1	5,398.1	11.9	14.9	0.96	514.4	-32.7	434.5	407.7	26.81	16.208			
5,500.0	5,496.1	5,524.1	5,498.1	12.2	15.1	0.96	514.4	-32.7	434.5	407.3	27.20	15.972			
5,600.0	5,596.1	5,624.1	5,598.1	12.4	15.3	0.96	514.4	-32.7	434.5	406.9	27.60	15.741			
5,700.0	5,696.1	5,724.1	5,698.1	12.6	15.4	0.96	514.4	-32.7	434.5	406.5	28.00	15.517			
5,800.0	5,796.1	5,824.1	5,798.1	12.8	15.6	0.96	514.4	-32.7	434.5	406.1	28.40	15.298			
5,900.0	5,896.1	5,924.1	5,898.1	13.0	15.8	0.96	514.4	-32.7	434.5	405.7	28.81	15.084			
6,000.0	5,996.1	6,024.1	5,998.1	13.3	16.0	0.96	514.4	-32.7	434.5	405.3	29.21	14.876			
6,100.0	6,096.1	6,124.1	6,098.1	13.5	16.2	0.96	514.4	-32.7	434.5	404.9	29.61	14.672			
6,200.0	6,196.1	6,224.1	6,198.1	13.7	16.3	0.96	514.4	-32.7	434.5	404.5	30.02	14.474			
6,300.0	6,296.1	6,323.5	6,297.4	13.9	16.5	-89.24	514.4	-30.4	434.5	406.3	28.19	15.412			
6,400.0	6,395.5	6,422.2	6,395.2	14.1	16.7	-88.87	514.4	-17.2	434.7	406.1	28.59	15.203			
6,500.0	6,492.7	6,520.7	6,490.4	14.3	16.9	-88.57	514.4	7.7	434.9	405.9	29.01	14.991			
6,600.0	6,586.2	6,618.9	6,581.7	14.5	17.1	-88.35	514.4	43.7	435.2	405.7	29.50	14.754			
6,700.0	6,674.5	6,717.0	6,668.0	14.8	17.3	-88.22	514.4	90.3	435.6	405.5	30.12	14.462			
6,800.0	6,756.2	6,815.0	6,748.0	15.2	17.6	-88.17	514.4	146.8	436.0	405.0	30.97	14.076			
6,900.0	6,830.0	6,913.1	6,820.7	15.8	18.0	-88.21	514.4	212.5	436.5	404.3	32.18	13.563			
7,000.0	6,894.7	7,011.3	6,885.1	16.6	18.6	-88.33	514.4	286.5	437.0	403.1	33.85	12.910			
7,100.0	6,949.2	7,109.6	6,940.3	17.7	19.5	-88.54	514.4	367.9	437.5	401.4	36.06	12.133			
7,200.0	6,992.7	7,208.2	6,985.4	19.1	20.7	-88.83	514.4	455.5	438.1	399.2	38.84	11.279			
7,300.0	7,024.4	7,307.1	7,019.7	20.8	22.2	-89.19	514.4	548.1	438.7	396.5	42.16	10.405			
7,400.0	7,044.0	7,406.4	7,042.7	22.7	24.0	-89.63	514.4	644.7	439.4	393.4	45.94	9.564			
7,500.0	7,051.0	7,506.1	7,053.9	24.8	25.9	-90.12	514.4	743.7	440.1	390.0	50.05	8.793			
7,600.0	7,051.0	7,606.8	7,055.0	27.0	28.1	-90.26	514.4	844.4	440.2	385.8	54.45	8.085			
7,700.0	7,051.0	7,706.8	7,055.0	29.3	30.3	-90.26	514.2	944.4	440.2	381.2	59.02	7.459			
7,800.0	7,051.0	7,806.8	7,055.0	31.6	32.6	-90.26	514.1	1,044.4	440.2	376.4	63.76	6.904			
7,900.0	7,051.0	7,906.8	7,055.0	34.1	35.0	-90.26	514.0	1,144.4	440.2	371.6	68.63	6.414			
8,000.0	7,051.0	8,006.8	7,055.0	36.6	37.5	-90.26	513.8	1,244.4	440.2	366.6	73.61	5.980			
8,100.0	7,051.0	8,106.8	7,055.0	39.1	40.0	-90.26	513.7	1,344.4	440.2	361.5	78.67	5.595			
8,200.0	7,051.0	8,206.8	7,055.0	41.7	42.5	-90.26	513.6	1,444.4	440.2	356.4	83.81	5.252			
8,300.0	7,051.0	8,306.8	7,055.0	44.3	45.1	-90.26	513.5	1,544.4	440.2	351.2	89.00	4.946			
8,400.0	7,051.0	8,406.8	7,055.0	46.9	47.7	-90.26	513.3	1,644.4	440.2	346.0	94.24	4.671			
8,500.0	7,051.0	8,506.8	7,055.0	49.6	50.3	-90.26	513.2	1,744.4	440.2	340.7	99.53	4.423			
8,600.0	7,051.0	8,606.8	7,055.0	52.2	52.9	-90.26	513.1	1,844.4	440.2	335.3	104.85	4.199			
8,700.0	7,051.0	8,706.8	7,055.0	54.9	55.6	-90.26	512.9	1,944.4	440.2	330.0	110.19	3.995			
8,800.0	7,051.0	8,806.8	7,055.0	57.6	58.2	-90.26	512.8	2,044.4	440.2	324.6	115.57	3.809			
8,900.0	7,051.0	8,906.8	7,055.0	60.3	60.9	-90.26	512.7	2,144.4	440.2	319.2	120.96	3.639			
9,000.0	7,051.0	9,006.8	7,055.0	63.0	63.6	-90.26	512.5	2,244.4	440.2	313.8	126.38	3.483			
9,100.0	7,051.0	9,106.8	7,055.0	65.7	66.3	-90.26	512.4	2,344.4	440.2	308.4	131.81	3.340			
9,200.0	7,051.0	9,206.8	7,055.0	68.5	69.0	-90.26	512.3	2,444.4	440.2	302.9	137.26	3.207			
9,300.0	7,051.0	9,306.8	7,055.0	71.2	71.8	-90.26	512.2	2,544.4	440.2	297.5	142.72	3.084			
9,400.0	7,051.0	9,406.8	7,055.0	73.9	74.5	-90.26	512.0	2,644.4	440.2	292.0	148.19	2.970			
9,500.0	7,051.0	9,506.8	7,055.0	76.7	77.2	-90.26	511.9	2,744.4	440.2	286.5	153.67	2.864			
9,600.0	7,051.0	9,606.8	7,055.0	79.4	80.0	-90.26	511.8	2,844.4	440.2	281.0	159.16	2.766			
9,700.0	7,051.0	9,706.8	7,055.0	82.2	82.7	-90.26	511.6	2,944.4	440.2	275.5	164.66	2.673			
9,800.0	7,051.0	9,806.8	7,055.0	84.9	85.4	-90.26	511.5	3,044.4	440.2	270.0	170.17	2.587			
9,900.0	7,051.0	9,906.8	7,055.0	87.7	88.2	-90.26	511.4	3,144.4	440.2	264.5	175.69	2.506			

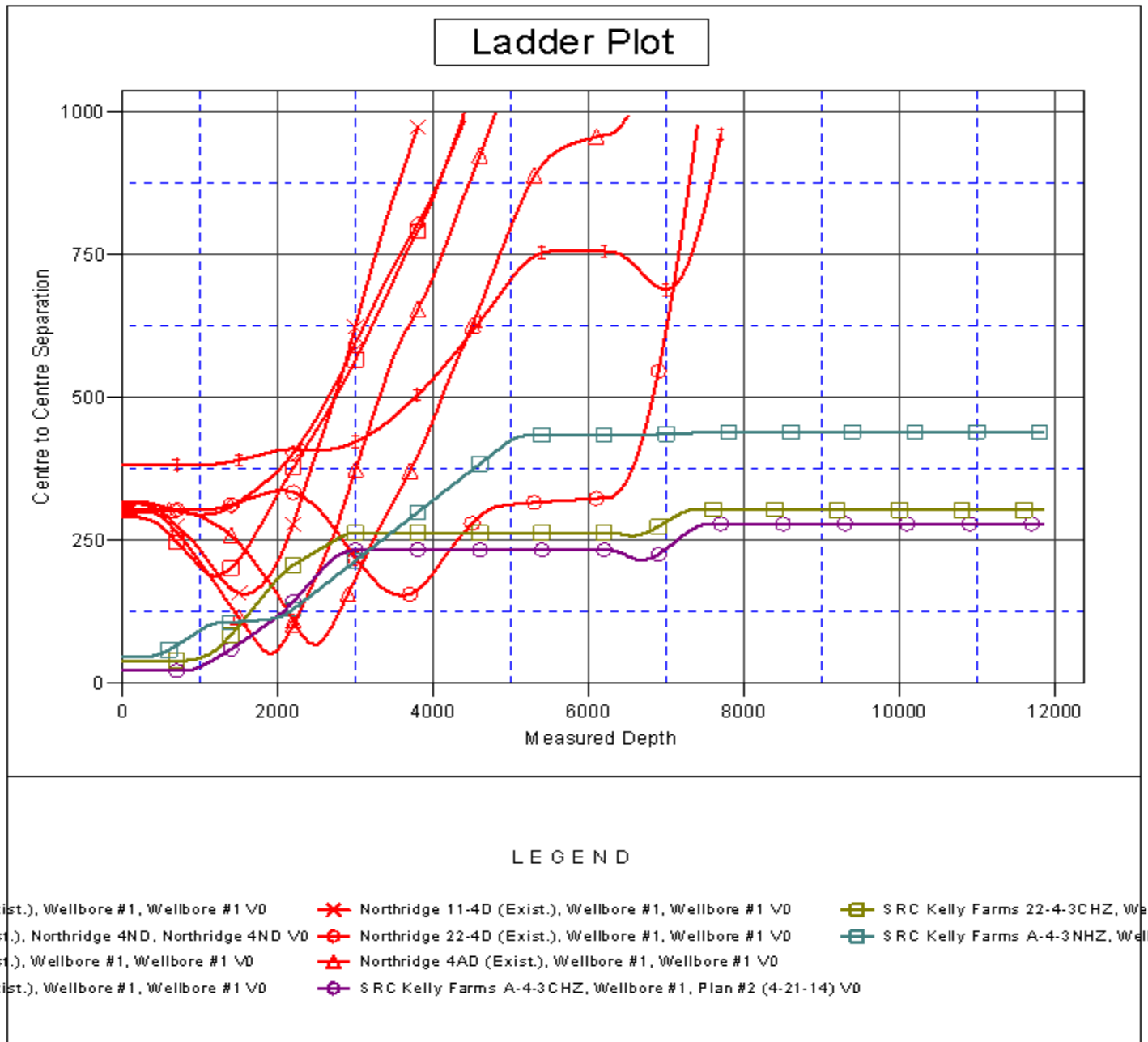
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

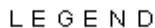
Offset Design SRC Kelly Farms Pad Sec.4-T5N-R66W - SRC Kelly Farms A-4-3NHZ - Wellbore #1 - Plan #2 (4-21-14)											Offset Site Error:		0.0 ft	
Survey Program: 0-MWD											Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)			
10,000.0	7,051.0	10,006.8	7,055.0	90.4	90.9	-90.26	511.2	3,244.4	440.2	259.0	181.21	2.429		
10,100.0	7,051.0	10,106.8	7,055.0	93.2	93.7	-90.26	511.1	3,344.4	440.2	253.4	186.73	2.357		
10,200.0	7,051.0	10,206.8	7,055.0	96.0	96.5	-90.26	511.0	3,444.4	440.2	247.9	192.27	2.289		
10,300.0	7,051.0	10,306.8	7,055.0	98.7	99.2	-90.26	510.9	3,544.4	440.2	242.4	197.80	2.225		
10,400.0	7,051.0	10,406.8	7,055.0	101.5	102.0	-90.26	510.7	3,644.4	440.2	236.8	203.34	2.165		
10,500.0	7,051.0	10,506.8	7,055.0	104.3	104.8	-90.26	510.6	3,744.4	440.2	231.3	208.89	2.107		
10,600.0	7,051.0	10,606.8	7,055.0	107.1	107.5	-90.26	510.5	3,844.4	440.2	225.7	214.44	2.053		
10,700.0	7,051.0	10,706.8	7,055.0	109.8	110.3	-90.26	510.3	3,944.4	440.2	220.2	219.99	2.001		
10,800.0	7,051.0	10,806.8	7,055.0	112.6	113.1	-90.26	510.2	4,044.4	440.2	214.6	225.55	1.952		
10,900.0	7,051.0	10,906.8	7,055.0	115.4	115.8	-90.26	510.1	4,144.4	440.2	209.1	231.11	1.905		
11,000.0	7,051.0	11,006.8	7,055.0	118.2	118.6	-90.26	509.9	4,244.4	440.2	203.5	236.67	1.860		
11,100.0	7,051.0	11,106.8	7,055.0	121.0	121.4	-90.26	509.8	4,344.4	440.2	197.9	242.23	1.817		
11,200.0	7,051.0	11,206.8	7,055.0	123.7	124.2	-90.26	509.7	4,444.4	440.2	192.4	247.80	1.776		
11,300.0	7,051.0	11,306.8	7,055.0	126.5	127.0	-90.26	509.6	4,544.4	440.2	186.8	253.37	1.737		
11,400.0	7,051.0	11,406.8	7,055.0	129.3	129.7	-90.26	509.4	4,644.4	440.2	181.2	258.94	1.700		
11,500.0	7,051.0	11,506.8	7,055.0	132.1	132.5	-90.26	509.3	4,744.4	440.2	175.7	264.51	1.664		
11,600.0	7,051.0	11,606.8	7,055.0	134.9	135.3	-90.26	509.2	4,844.4	440.2	170.1	270.09	1.630		
11,700.0	7,051.0	11,706.8	7,055.0	137.7	138.1	-90.26	509.0	4,944.4	440.2	164.5	275.66	1.597		
11,800.0	7,051.0	11,806.8	7,055.0	140.5	140.9	-90.26	508.9	5,044.4	440.2	158.9	281.24	1.565		
11,853.8	7,051.0	11,860.6	7,055.0	142.0	142.4	-90.26	508.8	5,098.2	440.2	155.9	284.25	1.549 SF		







Company:	Synergy Resources	Local Co-ordinate Reference:	Well SRC Kelly Farms 22-4-3NHZ
Project:	SEC.4-T5N-R66W	TVD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Reference Site:	SRC Kelly Farms Pad Sec.4-T5N-R66W	MD Reference:	WELL @ 4764.5ft (Ensign Rig #131 - RKB -13.5')
Site Error:	0.0ft	North Reference:	True
Reference Well:	SRC Kelly Farms 22-4-3NHZ	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	Landmark
Reference Design:	Plan #2 (4-21-14)	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4764.5ft (Ensign Rig #131 - Coordinates are relative to: SRC Kelly Farms 22-4-3NHZ
 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: 0.46°



Reference Depths are relative to WELL @ 4764.5ft (Ensign Rig #131 - Coordinates are relative to: SRC Kelly Farms 22-4-3NHZ
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: 0.46°



Exist.), Wellbore #1, Wellbore #1 VD		Northridge 11-4D (Exist.), Wellbore #1, Wellbore #1 VD		SRC Kelly Farms 22-4-3CHZ, Wellbore #1, Plan #2 (4-21-14) VD
ist), Northridge 4ND, Northridge 4ND VD		Northridge 22-4D (Exist.), Wellbore #1, Wellbore #1 VD		SRC Kelly Farms A-4-3NHZ, Wellbore #1, Plan #2 (4-21-14) VD
ist), Wellbore #1, Wellbore #1 VD		Northridge 4AD (Exist.), Wellbore #1, Wellbore #1 VD		
Exist.), Wellbore #1, Wellbore #1 VD		SRC Kelly Farms A-4-3CHZ, Wellbore #1, Plan #2 (4-21-14) VD		