



Project: SEC 5-T5N-R66W  
Site: Boomerang 21-5  
Well: Boomerang 34C-6-M  
Wellbore: OH  
Design: Plan #1

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
790.00	9.80	136.00	787.61	-30.07	29.04	2.00	136.00	-28.44	
6582.51	9.80	136.00	6495.60	-739.30	713.93	0.00	0.00	-699.21	
7667.87	91.04	268.87	7200.00	-842.86	72.04	9.00	132.32	-55.40	
15647.29	91.04	268.87	7055.00	-1000.55	-7904.50	0.00	0.00	7922.70	PBHL

PROJECT DETAILS: SEC 5-T5N-R66W  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
Colorado Northern Zone  
System Datum: Mean Sea Level

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7055.00	-1000.55	-7904.50	1400299.70	3185970.29	40.4302940	-104.8319860	Point
- plan hits target center								
PLP	7200.00	-900.54	72.10	1400462.35	3193945.87	40.4305720	-104.8033330	Point
- plan misses target center by 57.67ft at 7668.95ft MD (7199.98 TVD, -842.88 N, 70.96 E)								

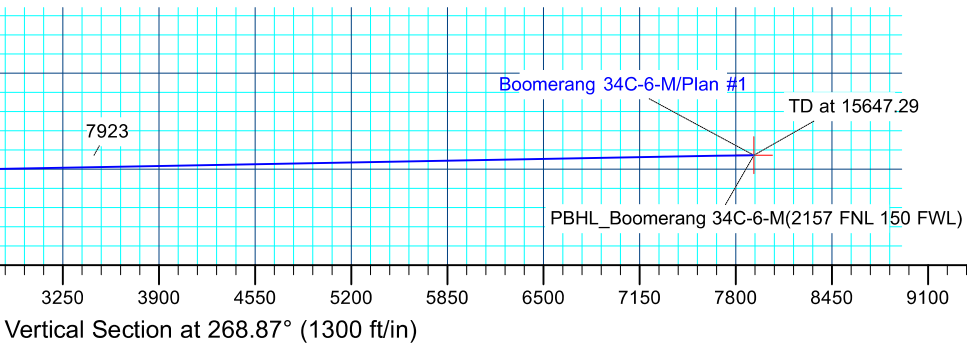
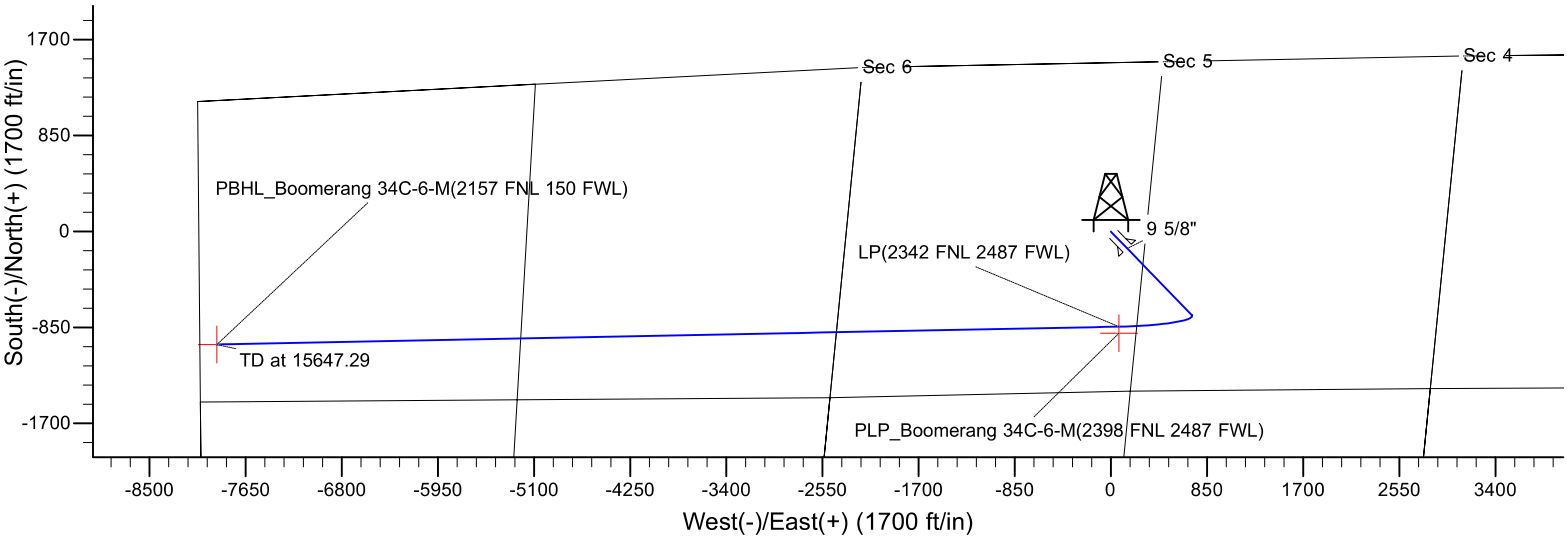
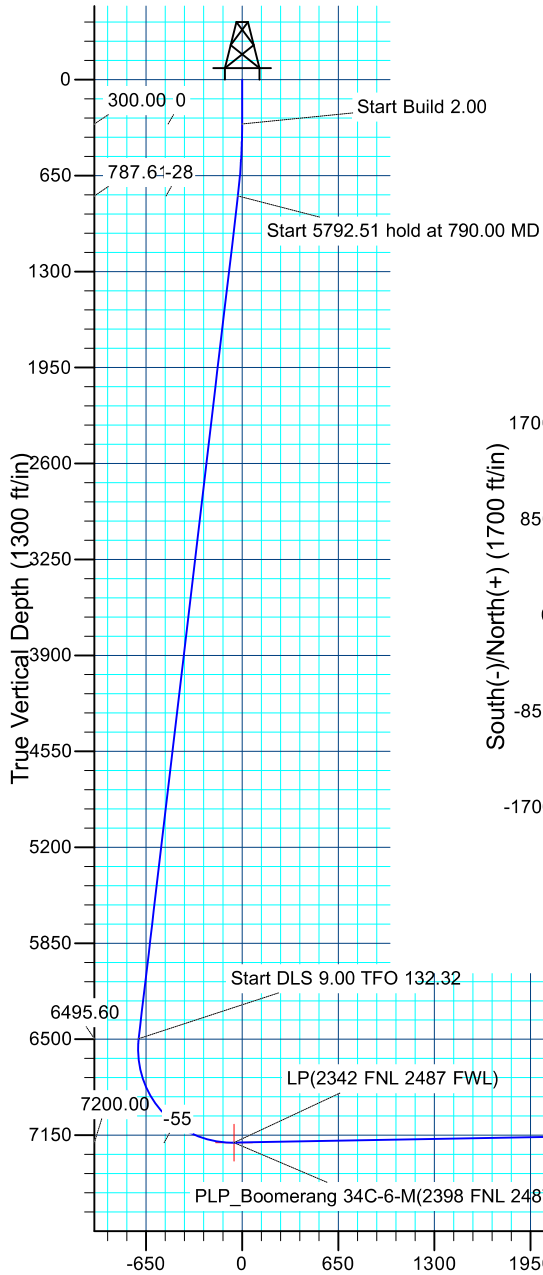
CASING DETAILS

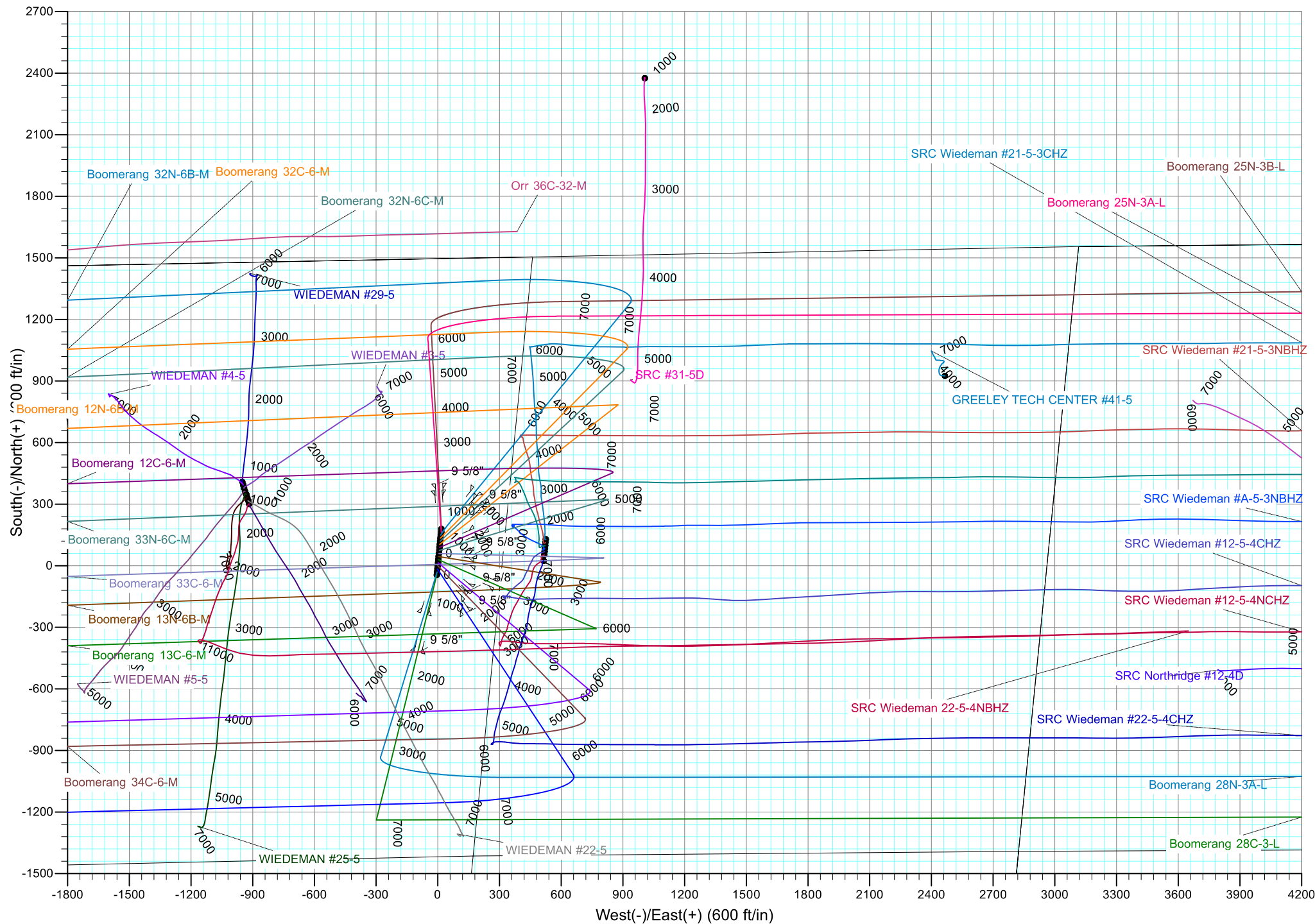
TVD	MD	Name	Size
1750.00	1766.64	9 5/8"	9.625

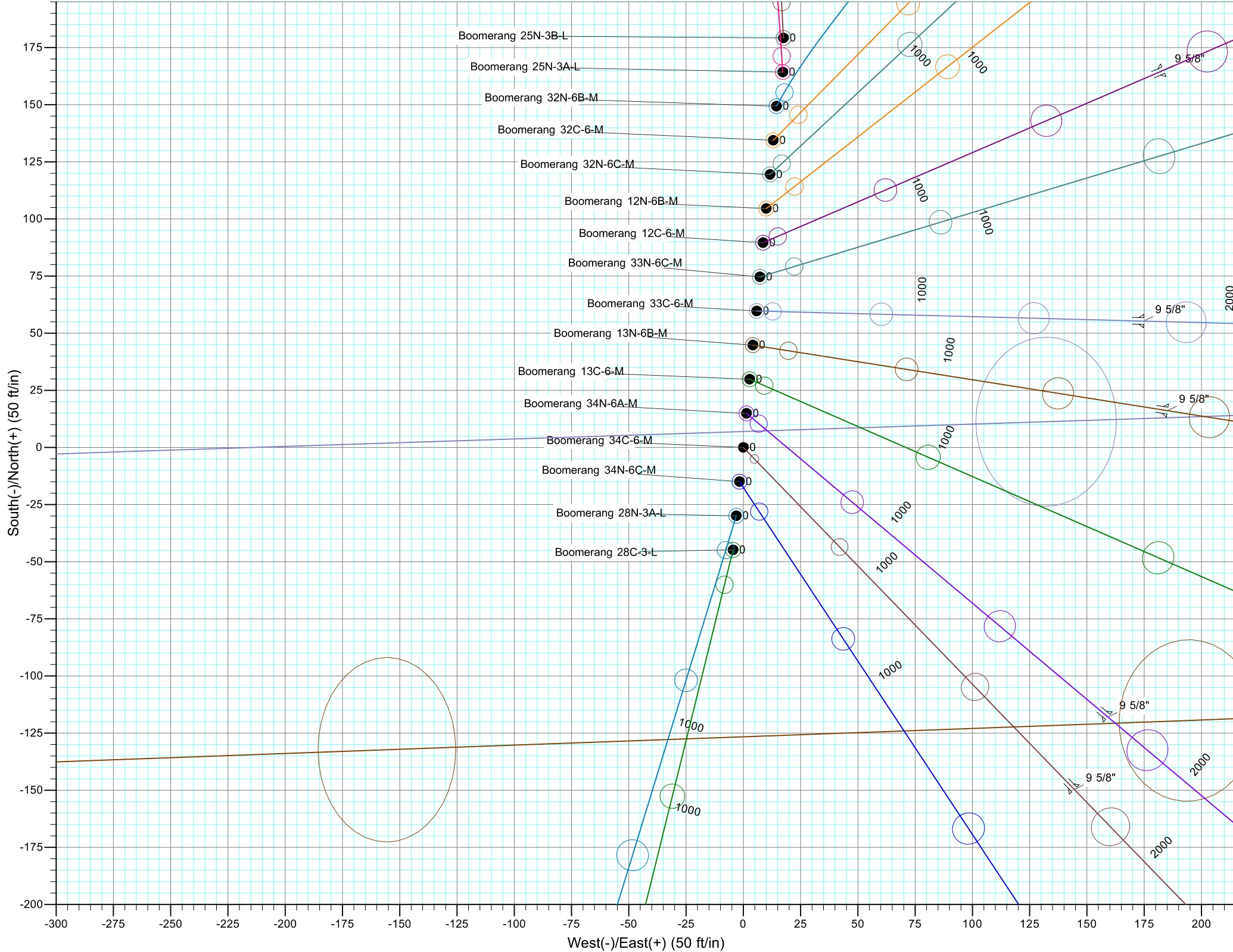


Azimuths to True North  
Magnetic North: 8.26°

Magnetic Field  
Strength: 52429.9snT  
Dip Angle: 66.88°  
Date: 4/1/2017  
Model: IGRF2015









# **Synergy Resources Corporation**

**SEC 5-T5N-R66W**

**Boomerang 21-5**

**Boomerang 34C-6-M**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**05 April, 2017**

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Boomerang 34C-6-M
<b>Company:</b>	Synergy Resources Corporation	<b>TVD Reference:</b>	GL 4770+KB 20 @ 4790.00ft
<b>Project:</b>	SEC 5-T5N-R66W	<b>MD Reference:</b>	GL 4770+KB 20 @ 4790.00ft
<b>Site:</b>	Boomerang 21-5	<b>North Reference:</b>	True
<b>Well:</b>	Boomerang 34C-6-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

<b>Project</b>	SEC 5-T5N-R66W		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site	Boomerang 21-5				
Site Position:		Northing:	1,401,541.68 ft	Latitude:	40.4335360
From:	Lat/Long	Easting:	3,193,882.83 ft	Longitude:	-104.8035290
Position Uncertainty:	3.28 ft	Slot Radius:	13.200 in	Grid Convergence:	0.45 °

Well	Boomerang 34C-6-M, 1496 FNL 2327 FWL					
Well Position	+N/-S	-179.25 ft	Northing:	1,401,362.30 ft	Latitude:	40.4330440
	+E/-W	-17.54 ft	Easting:	3,193,866.70 ft	Longitude:	-104.8035920
Position Uncertainty		3.28 ft	Wellhead Elevation:		Ground Level:	4,770.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	4/1/2017	8.26	66.88	52,430

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	268.87

<b>Plan Survey Tool Program</b>	<b>Date</b>	4/5/2017		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	15,647.29 Plan #1 (OH)	MWD+IFR1	
			OWSG MWD + IFR1	

<b>Plan Sections</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
790.00	9.80	136.00	787.61	-30.07	29.04	2.00	2.00	0.00	136.00	
6,582.51	9.80	136.00	6,495.60	-739.30	713.93	0.00	0.00	0.00	0.00	
7,667.87	91.04	268.87	7,200.00	-842.86	72.04	9.00	7.49	12.24	132.32	
15,647.29	91.04	268.87	7,055.00	-1,000.55	-7,904.51	0.00	0.00	0.00	0.00	PBHL_Boomerang 34

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Boomerang 34C-6-M
<b>Company:</b>	Synergy Resources Corporation	<b>TVD Reference:</b>	GL 4770+KB 20 @ 4790.00ft
<b>Project:</b>	SEC 5-T5N-R66W	<b>MD Reference:</b>	GL 4770+KB 20 @ 4790.00ft
<b>Site:</b>	Boomerang 21-5	<b>North Reference:</b>	True
<b>Well:</b>	Boomerang 34C-6-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	136.00	399.98	-1.26	1.21	-1.19	2.00	2.00	0.00
500.00	4.00	136.00	499.84	-5.02	4.85	-4.75	2.00	2.00	0.00
600.00	6.00	136.00	599.45	-11.29	10.90	-10.68	2.00	2.00	0.00
700.00	8.00	136.00	698.70	-20.06	19.37	-18.97	2.00	2.00	0.00
790.00	9.80	136.00	787.61	-30.07	29.04	-28.44	2.00	2.00	0.00
Start 5792.51 hold at 790.00 MD									
800.00	9.80	136.00	797.47	-31.30	30.22	-29.60	0.00	0.00	0.00
900.00	9.80	136.00	896.01	-43.54	42.05	-41.18	0.00	0.00	0.00
1,000.00	9.80	136.00	994.55	-55.78	53.87	-52.76	0.00	0.00	0.00
1,100.00	9.80	136.00	1,093.09	-68.03	65.69	-64.34	0.00	0.00	0.00
1,200.00	9.80	136.00	1,191.63	-80.27	77.52	-75.92	0.00	0.00	0.00
1,300.00	9.80	136.00	1,290.17	-92.51	89.34	-87.50	0.00	0.00	0.00
1,400.00	9.80	136.00	1,388.71	-104.76	101.16	-99.08	0.00	0.00	0.00
1,500.00	9.80	136.00	1,487.25	-117.00	112.99	-110.66	0.00	0.00	0.00
1,600.00	9.80	136.00	1,585.79	-129.25	124.81	-122.24	0.00	0.00	0.00
1,700.00	9.80	136.00	1,684.34	-141.49	136.64	-133.82	0.00	0.00	0.00
1,766.64	9.80	136.00	1,750.00	-149.65	144.51	-141.53	0.00	0.00	0.00
9 5/8"									
1,800.00	9.80	136.00	1,782.88	-153.73	148.46	-145.40	0.00	0.00	0.00
1,900.00	9.80	136.00	1,881.42	-165.98	160.28	-156.98	0.00	0.00	0.00
2,000.00	9.80	136.00	1,979.96	-178.22	172.11	-168.56	0.00	0.00	0.00
2,100.00	9.80	136.00	2,078.50	-190.47	183.93	-180.14	0.00	0.00	0.00
2,200.00	9.80	136.00	2,177.04	-202.71	195.75	-191.72	0.00	0.00	0.00
2,300.00	9.80	136.00	2,275.58	-214.95	207.58	-203.30	0.00	0.00	0.00
2,400.00	9.80	136.00	2,374.12	-227.20	219.40	-214.88	0.00	0.00	0.00
2,500.00	9.80	136.00	2,472.66	-239.44	231.23	-226.46	0.00	0.00	0.00
2,600.00	9.80	136.00	2,571.20	-251.68	243.05	-238.04	0.00	0.00	0.00
2,700.00	9.80	136.00	2,669.74	-263.93	254.87	-249.62	0.00	0.00	0.00
2,800.00	9.80	136.00	2,768.28	-276.17	266.70	-261.20	0.00	0.00	0.00
2,900.00	9.80	136.00	2,866.83	-288.42	278.52	-272.78	0.00	0.00	0.00
3,000.00	9.80	136.00	2,965.37	-300.66	290.34	-284.36	0.00	0.00	0.00
3,100.00	9.80	136.00	3,063.91	-312.90	302.17	-295.94	0.00	0.00	0.00
3,200.00	9.80	136.00	3,162.45	-325.15	313.99	-307.52	0.00	0.00	0.00
3,300.00	9.80	136.00	3,260.99	-337.39	325.82	-319.10	0.00	0.00	0.00
3,400.00	9.80	136.00	3,359.53	-349.64	337.64	-330.68	0.00	0.00	0.00
3,500.00	9.80	136.00	3,458.07	-361.88	349.46	-342.26	0.00	0.00	0.00
3,600.00	9.80	136.00	3,556.61	-374.12	361.29	-353.84	0.00	0.00	0.00
3,700.00	9.80	136.00	3,655.15	-386.37	373.11	-365.42	0.00	0.00	0.00
3,800.00	9.80	136.00	3,753.69	-398.61	384.93	-377.00	0.00	0.00	0.00
3,900.00	9.80	136.00	3,852.23	-410.85	396.76	-388.58	0.00	0.00	0.00
4,000.00	9.80	136.00	3,950.77	-423.10	408.58	-400.16	0.00	0.00	0.00
4,100.00	9.80	136.00	4,049.31	-435.34	420.40	-411.74	0.00	0.00	0.00
4,200.00	9.80	136.00	4,147.86	-447.59	432.23	-423.32	0.00	0.00	0.00
4,300.00	9.80	136.00	4,246.40	-459.83	444.05	-434.90	0.00	0.00	0.00
4,400.00	9.80	136.00	4,344.94	-472.07	455.88	-446.48	0.00	0.00	0.00
4,500.00	9.80	136.00	4,443.48	-484.32	467.70	-458.06	0.00	0.00	0.00
4,600.00	9.80	136.00	4,542.02	-496.56	479.52	-469.64	0.00	0.00	0.00
4,700.00	9.80	136.00	4,640.56	-508.81	491.35	-481.22	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Boomerang 34C-6-M
<b>Company:</b>	Synergy Resources Corporation	<b>TVD Reference:</b>	GL 4770+KB 20 @ 4790.00ft
<b>Project:</b>	SEC 5-T5N-R66W	<b>MD Reference:</b>	GL 4770+KB 20 @ 4790.00ft
<b>Site:</b>	Boomerang 21-5	<b>North Reference:</b>	True
<b>Well:</b>	Boomerang 34C-6-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

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)
4,800.00	9.80	136.00	4,739.10	-521.05	503.17	-492.80	0.00	0.00	0.00
4,900.00	9.80	136.00	4,837.64	-533.29	514.99	-504.38	0.00	0.00	0.00
5,000.00	9.80	136.00	4,936.18	-545.54	526.82	-515.96	0.00	0.00	0.00
5,100.00	9.80	136.00	5,034.72	-557.78	538.64	-527.54	0.00	0.00	0.00
5,200.00	9.80	136.00	5,133.26	-570.02	550.47	-539.12	0.00	0.00	0.00
5,300.00	9.80	136.00	5,231.80	-582.27	562.29	-550.70	0.00	0.00	0.00
5,400.00	9.80	136.00	5,330.34	-594.51	574.11	-562.28	0.00	0.00	0.00
5,500.00	9.80	136.00	5,428.89	-606.76	585.94	-573.86	0.00	0.00	0.00
5,600.00	9.80	136.00	5,527.43	-619.00	597.76	-585.44	0.00	0.00	0.00
5,700.00	9.80	136.00	5,625.97	-631.24	609.58	-597.02	0.00	0.00	0.00
5,800.00	9.80	136.00	5,724.51	-643.49	621.41	-608.60	0.00	0.00	0.00
5,900.00	9.80	136.00	5,823.05	-655.73	633.23	-620.18	0.00	0.00	0.00
6,000.00	9.80	136.00	5,921.59	-667.98	645.06	-631.76	0.00	0.00	0.00
6,100.00	9.80	136.00	6,020.13	-680.22	656.88	-643.34	0.00	0.00	0.00
6,200.00	9.80	136.00	6,118.67	-692.46	668.70	-654.92	0.00	0.00	0.00
6,300.00	9.80	136.00	6,217.21	-704.71	680.53	-666.50	0.00	0.00	0.00
6,400.00	9.80	136.00	6,315.75	-716.95	692.35	-678.08	0.00	0.00	0.00
6,500.00	9.80	136.00	6,414.29	-729.19	704.17	-689.66	0.00	0.00	0.00
6,582.51	9.80	136.00	6,495.60	-739.30	713.93	-699.21	0.00	0.00	0.00
<b>Start DLS 9.00 TFO 132.32</b>									
6,600.00	8.82	143.62	6,512.86	-741.45	715.76	-701.00	9.00	-5.62	43.54
6,700.00	8.23	207.43	6,611.96	-753.99	717.01	-702.00	9.00	-0.59	63.82
6,800.00	14.79	240.02	6,709.99	-766.75	702.63	-687.37	9.00	6.56	32.59
6,900.00	23.05	251.38	6,804.53	-779.41	672.96	-657.45	9.00	8.25	11.36
7,000.00	31.69	256.88	6,893.27	-791.64	628.73	-613.00	9.00	8.65	5.49
7,100.00	40.48	260.19	6,974.01	-803.16	571.05	-555.10	9.00	8.79	3.31
7,200.00	49.34	262.48	7,044.77	-813.68	501.31	-485.17	9.00	8.85	2.29
7,300.00	58.23	264.23	7,103.80	-822.94	421.26	-404.95	9.00	8.89	1.75
7,400.00	67.14	265.67	7,149.65	-830.71	332.84	-316.40	9.00	8.91	1.44
7,500.00	76.06	266.93	7,181.19	-836.80	238.25	-221.71	9.00	8.92	1.26
7,600.00	84.98	268.10	7,197.65	-841.06	139.81	-123.20	9.00	8.93	1.17
7,667.87	91.04	268.87	7,200.00	-842.86	72.04	-55.40	9.00	8.93	1.14
<b>LP(2342 FNL 2487 FWL)</b>									
7,668.95	91.04	268.87	7,199.98	-842.88	70.96	-54.33	0.00	0.00	0.00
<b>PLP_Boomerang 34C-6-M(2398 FNL 2487 FWL)</b>									
7,700.00	91.04	268.87	7,199.42	-843.49	39.92	-23.28	0.00	0.00	0.00
7,800.00	91.04	268.87	7,197.60	-845.47	-60.04	76.70	0.00	0.00	0.00
7,900.00	91.04	268.87	7,195.78	-847.44	-160.01	176.69	0.00	0.00	0.00
8,000.00	91.04	268.87	7,193.97	-849.42	-259.97	276.67	0.00	0.00	0.00
8,100.00	91.04	268.87	7,192.15	-851.40	-359.93	376.65	0.00	0.00	0.00
8,200.00	91.04	268.87	7,190.33	-853.37	-459.90	476.64	0.00	0.00	0.00
8,300.00	91.04	268.87	7,188.51	-855.35	-559.86	576.62	0.00	0.00	0.00
8,400.00	91.04	268.87	7,186.70	-857.32	-659.83	676.60	0.00	0.00	0.00
8,500.00	91.04	268.87	7,184.88	-859.30	-759.79	776.59	0.00	0.00	0.00
8,600.00	91.04	268.87	7,183.06	-861.28	-859.75	876.57	0.00	0.00	0.00
8,700.00	91.04	268.87	7,181.24	-863.25	-959.72	976.55	0.00	0.00	0.00
8,800.00	91.04	268.87	7,179.43	-865.23	-1,059.68	1,076.54	0.00	0.00	0.00
8,900.00	91.04	268.87	7,177.61	-867.21	-1,159.65	1,176.52	0.00	0.00	0.00
9,000.00	91.04	268.87	7,175.79	-869.18	-1,259.61	1,276.51	0.00	0.00	0.00
9,100.00	91.04	268.87	7,173.98	-871.16	-1,359.57	1,376.49	0.00	0.00	0.00
9,200.00	91.04	268.87	7,172.16	-873.13	-1,459.54	1,476.47	0.00	0.00	0.00
9,300.00	91.04	268.87	7,170.34	-875.11	-1,559.50	1,576.46	0.00	0.00	0.00
9,400.00	91.04	268.87	7,168.52	-877.09	-1,659.47	1,676.44	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Boomerang 34C-6-M
<b>Company:</b>	Synergy Resources Corporation	<b>TVD Reference:</b>	GL 4770+KB 20 @ 4790.00ft
<b>Project:</b>	SEC 5-T5N-R66W	<b>MD Reference:</b>	GL 4770+KB 20 @ 4790.00ft
<b>Site:</b>	Boomerang 21-5	<b>North Reference:</b>	True
<b>Well:</b>	Boomerang 34C-6-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

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)
9,500.00	91.04	268.87	7,166.71	-879.06	-1,759.43	1,776.42	0.00	0.00	0.00
9,600.00	91.04	268.87	7,164.89	-881.04	-1,859.39	1,876.41	0.00	0.00	0.00
9,700.00	91.04	268.87	7,163.07	-883.02	-1,959.36	1,976.39	0.00	0.00	0.00
9,800.00	91.04	268.87	7,161.26	-884.99	-2,059.32	2,076.37	0.00	0.00	0.00
9,900.00	91.04	268.87	7,159.44	-886.97	-2,159.28	2,176.36	0.00	0.00	0.00
10,000.00	91.04	268.87	7,157.62	-888.94	-2,259.25	2,276.34	0.00	0.00	0.00
10,100.00	91.04	268.87	7,155.80	-890.92	-2,359.21	2,376.32	0.00	0.00	0.00
10,200.00	91.04	268.87	7,153.99	-892.90	-2,459.18	2,476.31	0.00	0.00	0.00
10,300.00	91.04	268.87	7,152.17	-894.87	-2,559.14	2,576.29	0.00	0.00	0.00
10,400.00	91.04	268.87	7,150.35	-896.85	-2,659.10	2,676.27	0.00	0.00	0.00
10,500.00	91.04	268.87	7,148.54	-898.83	-2,759.07	2,776.26	0.00	0.00	0.00
10,600.00	91.04	268.87	7,146.72	-900.80	-2,859.03	2,876.24	0.00	0.00	0.00
10,700.00	91.04	268.87	7,144.90	-902.78	-2,959.00	2,976.22	0.00	0.00	0.00
10,800.00	91.04	268.87	7,143.08	-904.75	-3,058.96	3,076.21	0.00	0.00	0.00
10,900.00	91.04	268.87	7,141.27	-906.73	-3,158.92	3,176.19	0.00	0.00	0.00
11,000.00	91.04	268.87	7,139.45	-908.71	-3,258.89	3,276.18	0.00	0.00	0.00
11,100.00	91.04	268.87	7,137.63	-910.68	-3,358.85	3,376.16	0.00	0.00	0.00
11,200.00	91.04	268.87	7,135.82	-912.66	-3,458.82	3,476.14	0.00	0.00	0.00
11,300.00	91.04	268.87	7,134.00	-914.64	-3,558.78	3,576.13	0.00	0.00	0.00
11,400.00	91.04	268.87	7,132.18	-916.61	-3,658.74	3,676.11	0.00	0.00	0.00
11,500.00	91.04	268.87	7,130.36	-918.59	-3,758.71	3,776.09	0.00	0.00	0.00
11,600.00	91.04	268.87	7,128.55	-920.56	-3,858.67	3,876.08	0.00	0.00	0.00
11,700.00	91.04	268.87	7,126.73	-922.54	-3,958.64	3,976.06	0.00	0.00	0.00
11,800.00	91.04	268.87	7,124.91	-924.52	-4,058.60	4,076.04	0.00	0.00	0.00
11,900.00	91.04	268.87	7,123.10	-926.49	-4,158.56	4,176.03	0.00	0.00	0.00
12,000.00	91.04	268.87	7,121.28	-928.47	-4,258.53	4,276.01	0.00	0.00	0.00
12,100.00	91.04	268.87	7,119.46	-930.45	-4,358.49	4,375.99	0.00	0.00	0.00
12,200.00	91.04	268.87	7,117.64	-932.42	-4,458.46	4,475.98	0.00	0.00	0.00
12,300.00	91.04	268.87	7,115.83	-934.40	-4,558.42	4,575.96	0.00	0.00	0.00
12,400.00	91.04	268.87	7,114.01	-936.37	-4,658.38	4,675.94	0.00	0.00	0.00
12,500.00	91.04	268.87	7,112.19	-938.35	-4,758.35	4,775.93	0.00	0.00	0.00
12,600.00	91.04	268.87	7,110.37	-940.33	-4,858.31	4,875.91	0.00	0.00	0.00
12,700.00	91.04	268.87	7,108.56	-942.30	-4,958.28	4,975.89	0.00	0.00	0.00
12,800.00	91.04	268.87	7,106.74	-944.28	-5,058.24	5,075.88	0.00	0.00	0.00
12,900.00	91.04	268.87	7,104.92	-946.26	-5,158.20	5,175.86	0.00	0.00	0.00
13,000.00	91.04	268.87	7,103.11	-948.23	-5,258.17	5,275.84	0.00	0.00	0.00
13,100.00	91.04	268.87	7,101.29	-950.21	-5,358.13	5,375.83	0.00	0.00	0.00
13,200.00	91.04	268.87	7,099.47	-952.18	-5,458.10	5,475.81	0.00	0.00	0.00
13,300.00	91.04	268.87	7,097.65	-954.16	-5,558.06	5,575.80	0.00	0.00	0.00
13,400.00	91.04	268.87	7,095.84	-956.14	-5,658.02	5,675.78	0.00	0.00	0.00
13,500.00	91.04	268.87	7,094.02	-958.11	-5,757.99	5,775.76	0.00	0.00	0.00
13,600.00	91.04	268.87	7,092.20	-960.09	-5,857.95	5,875.75	0.00	0.00	0.00
13,700.00	91.04	268.87	7,090.39	-962.06	-5,957.92	5,975.73	0.00	0.00	0.00
13,800.00	91.04	268.87	7,088.57	-964.04	-6,057.88	6,075.71	0.00	0.00	0.00
13,900.00	91.04	268.87	7,086.75	-966.02	-6,157.84	6,175.70	0.00	0.00	0.00
14,000.00	91.04	268.87	7,084.93	-967.99	-6,257.81	6,275.68	0.00	0.00	0.00
14,100.00	91.04	268.87	7,083.12	-969.97	-6,357.77	6,375.66	0.00	0.00	0.00
14,200.00	91.04	268.87	7,081.30	-971.95	-6,457.74	6,475.65	0.00	0.00	0.00
14,300.00	91.04	268.87	7,079.48	-973.92	-6,557.70	6,575.63	0.00	0.00	0.00
14,400.00	91.04	268.87	7,077.67	-975.90	-6,657.66	6,675.61	0.00	0.00	0.00
14,500.00	91.04	268.87	7,075.85	-977.87	-6,757.63	6,775.60	0.00	0.00	0.00
14,600.00	91.04	268.87	7,074.03	-979.85	-6,857.59	6,875.58	0.00	0.00	0.00
14,700.00	91.04	268.87	7,072.21	-981.83	-6,957.55	6,975.56	0.00	0.00	0.00
14,800.00	91.04	268.87	7,070.40	-983.80	-7,057.52	7,075.55	0.00	0.00	0.00



<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Boomerang 34C-6-M
<b>Company:</b>	Synergy Resources Corporation	<b>TVD Reference:</b>	GL 4770+KB 20 @ 4790.00ft
<b>Project:</b>	SEC 5-T5N-R66W	<b>MD Reference:</b>	GL 4770+KB 20 @ 4790.00ft
<b>Site:</b>	Boomerang 21-5	<b>North Reference:</b>	True
<b>Well:</b>	Boomerang 34C-6-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

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)
14,900.00	91.04	268.87	7,068.58	-985.78	-7,157.48	7,175.53	0.00	0.00	0.00
15,000.00	91.04	268.87	7,066.76	-987.76	-7,257.45	7,275.51	0.00	0.00	0.00
15,100.00	91.04	268.87	7,064.95	-989.73	-7,357.41	7,375.50	0.00	0.00	0.00
15,200.00	91.04	268.87	7,063.13	-991.71	-7,457.37	7,475.48	0.00	0.00	0.00
15,300.00	91.04	268.87	7,061.31	-993.68	-7,557.34	7,575.47	0.00	0.00	0.00
15,400.00	91.04	268.87	7,059.49	-995.66	-7,657.30	7,675.45	0.00	0.00	0.00
15,500.00	91.04	268.87	7,057.68	-997.64	-7,757.27	7,775.43	0.00	0.00	0.00
15,600.00	91.04	268.87	7,055.86	-999.61	-7,857.23	7,875.42	0.00	0.00	0.00
15,647.29	91.04	268.87	7,055.00	-1,000.55	-7,904.51	7,922.70	0.00	0.00	0.00
TD at 15647.29 - PBHL_Boomerang 34C-6-M(2157 FNL 150 FWL)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_Boomerang 34C- - plan hits target center - Point	0.00	0.00	7,055.00	-1,000.55	-7,904.51	1,400,299.70	3,185,970.29	40.4302940	-104.8319860
PLP_Boomerang 34C-6- - plan misses target center by 57.67ft at 7668.95ft MD (7199.98 TVD, -842.88 N, 70.96 E) - Point	0.00	0.00	7,200.00	-900.54	72.10	1,400,462.36	3,193,945.87	40.4305720	-104.8033330

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name		Casing Diameter (in)	Hole Diameter (in)
1,766.64	1,750.00	9 5/8"		9.625	13.500

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
790.00	787.61	-30.07	29.04	Start 5792.51 hold at 790.00 MD
6,582.51	6,495.60	-739.30	713.93	Start DLS 9.00 TFO 132.32
7,667.87	7,200.00	-842.86	72.04	LP(2342 FNL 2487 FWL)
15,647.29	7,055.00	-1,000.55	-7,904.51	TD at 15647.29