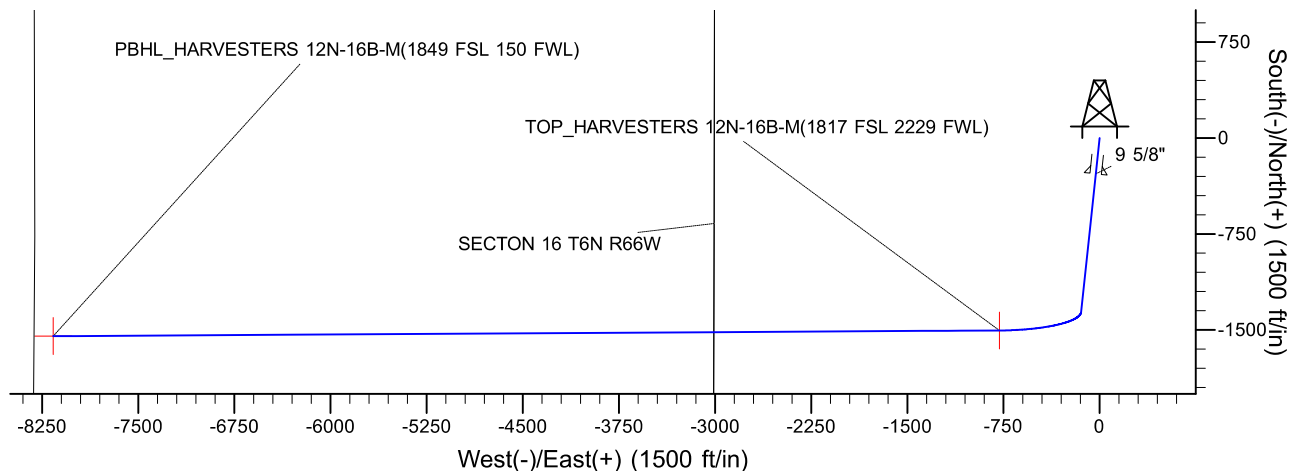
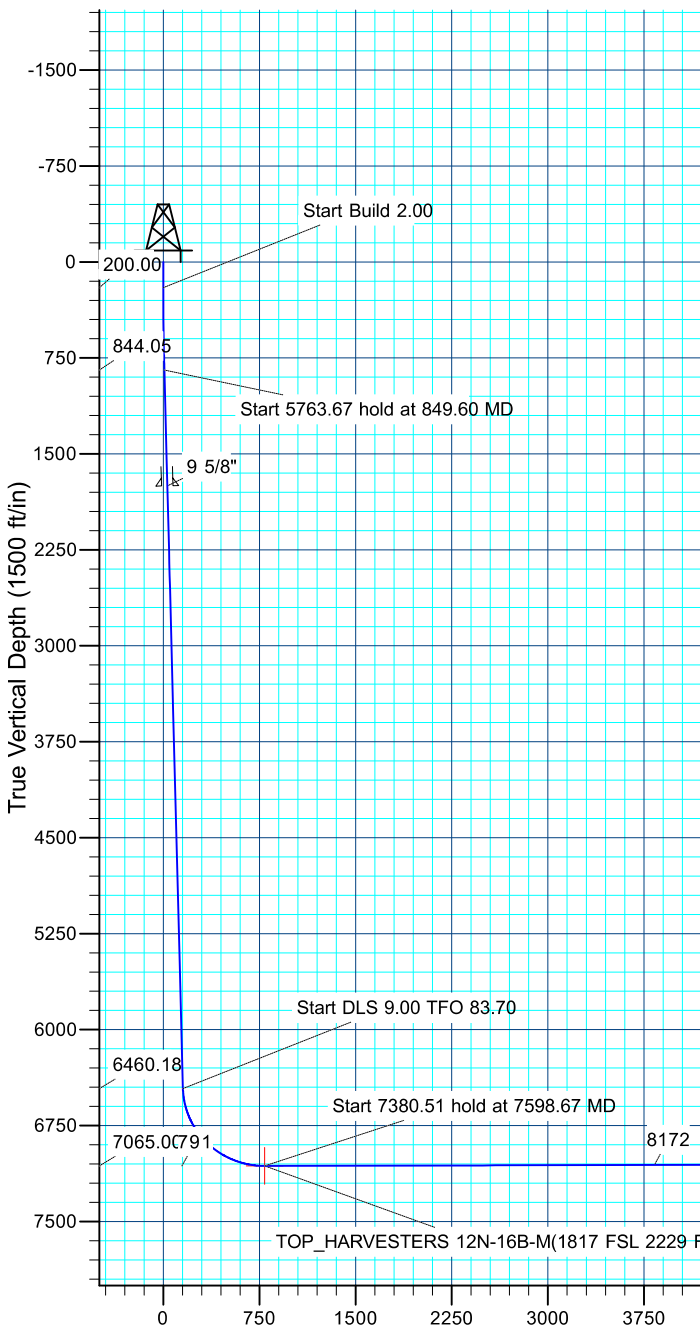
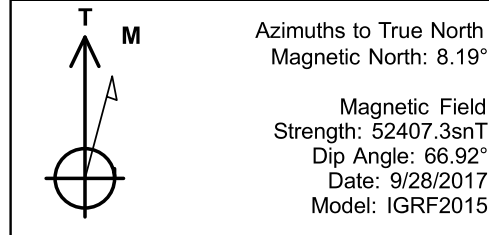




Project: SECTION 15, T6N, R66W
Site: HARVESTERS STATE 7-15 PAD
Well: HARVESTERS STATE 12N-16B-M
Wellbore: OH
Design: PLAN #1
Lat: 40.4902419
Long: -104.7625170



DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	7048.00	-1548.38	-8162.54	1420672.35	3196971.52	40.4859880	-104.7918620	Point	
- plan hits target center									
TOP	7065.00	-1504.18	-782.18	1420777.93	3204351.24	40.4861130	-104.7653290	Point	
- plan misses target center by 0.01ft at 7598.67ft MD (7065.00 TVD, -1504.19 N, -782.18 E)									
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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
849.60	12.99	186.09	844.05	-72.92	-7.78	2.00	186.09	8.21	
6613.27	12.99	186.09	6460.18	-1361.38	-145.18	0.00	0.00	153.33	
7598.67	90.13	269.66	7065.00	-1504.19	-782.18	9.00	83.70	791.17	
14979.18	90.13	269.66	7048.00	-1548.38	-8162.54	0.00	0.00	8171.66	PBHL
CASING DETAILS						PROJECT DETAILS: SECTION 15, T6N, R66W			
TVD	MD	Name	Size			Geodetic System: US State Plane 1983			
1750.00	1779.35	9 5/8"	9.625			Datum: North American Datum 1983			
						Ellipsoid: GRS 1980			
						Zone: Colorado Northern Zone			
						Colorado Northern Zone			
						System Datum: Mean Sea Level			

Vertical Section at 269.66° (1500 ft/in)



SRC ENERGY

**SECTION 15, T6N, R66W
HARVESTERS STATE 7-15 PAD
HARVESTERS STATE 12N-16B-M**

OH

Plan: PLAN #1

Standard Planning Report

02 October, 2017





Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 12N-16B-
Company:	SRC ENERGY	TVD Reference:	M KB @ 4820.00ft
Project:	SECTION 15, T6N, R66W	MD Reference:	KB @ 4820.00ft
Site:	HARVESTERS STATE 7-15 PAD	North Reference:	True
Well:	HARVESTERS STATE 12N-16B-	Survey Calculation Method:	Minimum Curvature
Wellbore:	M OH		
Design:	PLAN #1		

Project	SECTION 15, T6N, R66W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	HARVESTERS STATE 7-15 PAD			
Site Position:		Northing:	1,422,648.53 usft	Latitude: 40.4912300
From:	Lat/Long	Easting:	3,205,120.94 usft	Longitude: -104.7625060
Position Uncertainty:	3.28 ft	Slot Radius:	13.200 in	Grid Convergence: 0.48 °

Well	HARVESTERS STATE 12N-16B-M, 1953' FNL & 2336' FEL			
Well Position	+N/-S	-359.95 ft	Northing:	1,422,288.57 usft
	+E/-W	-3.06 ft	Easting:	3,205,120.88 usft
Position Uncertainty		3.28 ft	Wellhead Elevation:	Latitude: 40.4902420
				Longitude: -104.7625170
				Ground Level: 4,800.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/28/2017	8.19	66.92	52,407

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	269.66

Plan Survey Tool Program	Date	10/2/2017		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	14,979.13	PLAN #1 (OH)	MWD+IFR1
				OWSG MWD + IFR1

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
0.00	0.00	0.00	0.00	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	
849.60	12.99	186.09	844.05	-72.92	-7.78	2.00	2.00	0.00	186.09	
6,613.27	12.99	186.09	6,460.18	-1,361.38	-145.18	0.00	0.00	0.00	0.00	
7,598.67	90.13	269.66	7,065.00	-1,504.19	-782.18	9.00	7.83	8.48	83.70	
14,979.18	90.13	269.66	7,048.00	-1,548.39	-8,162.54	0.00	0.00	0.00	0.00	PBHL_HARVESTERS

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 12N-16B-
Company:	SRC ENERGY	TVD Reference:	M KB @ 4820.00ft
Project:	SECTION 15, T6N, R66W	MD Reference:	KB @ 4820.00ft
Site:	HARVESTERS STATE 7-15 PAD	North Reference:	True
Well:	HARVESTERS STATE 12N-16B-	Survey Calculation Method:	Minimum Curvature
Wellbore:	M OH		
Design:	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
Start Build 2.00									
300.00	2.00	186.09	299.98	-1.74	-0.19	0.20	2.00	2.00	0.00
400.00	4.00	186.09	399.84	-6.94	-0.74	0.78	2.00	2.00	0.00
500.00	6.00	186.09	499.45	-15.61	-1.66	1.76	2.00	2.00	0.00
600.00	8.00	186.09	598.70	-27.72	-2.96	3.12	2.00	2.00	0.00
700.00	10.00	186.09	697.47	-43.28	-4.62	4.87	2.00	2.00	0.00
800.00	12.00	186.09	795.62	-62.25	-6.64	7.01	2.00	2.00	0.00
849.60	12.99	186.09	844.05	-72.92	-7.78	8.21	2.00	2.00	0.00
Start 5763.67 hold at 849.60 MD									
900.00	12.99	186.09	893.16	-84.19	-8.98	9.48	0.00	0.00	0.00
1,000.00	12.99	186.09	990.60	-106.54	-11.36	12.00	0.00	0.00	0.00
1,100.00	12.99	186.09	1,088.04	-128.90	-13.75	14.52	0.00	0.00	0.00
1,200.00	12.99	186.09	1,185.48	-151.25	-16.13	17.03	0.00	0.00	0.00
1,300.00	12.99	186.09	1,282.92	-173.61	-18.51	19.55	0.00	0.00	0.00
1,400.00	12.99	186.09	1,380.36	-195.96	-20.90	22.07	0.00	0.00	0.00
1,500.00	12.99	186.09	1,477.80	-218.32	-23.28	24.59	0.00	0.00	0.00
1,600.00	12.99	186.09	1,575.24	-240.67	-25.67	27.11	0.00	0.00	0.00
1,700.00	12.99	186.09	1,672.68	-263.03	-28.05	29.62	0.00	0.00	0.00
1,779.35	12.99	186.09	1,750.00	-280.76	-29.94	31.62	0.00	0.00	0.00
9 5/8"									
1,800.00	12.99	186.09	1,770.12	-285.38	-30.43	32.14	0.00	0.00	0.00
1,900.00	12.99	186.09	1,867.56	-307.74	-32.82	34.66	0.00	0.00	0.00
2,000.00	12.99	186.09	1,965.00	-330.09	-35.20	37.18	0.00	0.00	0.00
2,100.00	12.99	186.09	2,062.44	-352.44	-37.58	39.69	0.00	0.00	0.00
2,200.00	12.99	186.09	2,159.88	-374.80	-39.97	42.21	0.00	0.00	0.00
2,300.00	12.99	186.09	2,257.32	-397.15	-42.35	44.73	0.00	0.00	0.00
2,400.00	12.99	186.09	2,354.76	-419.51	-44.74	47.25	0.00	0.00	0.00
2,500.00	12.99	186.09	2,452.20	-441.86	-47.12	49.77	0.00	0.00	0.00
2,600.00	12.99	186.09	2,549.64	-464.22	-49.50	52.28	0.00	0.00	0.00
2,700.00	12.99	186.09	2,647.08	-486.57	-51.89	54.80	0.00	0.00	0.00
2,800.00	12.99	186.09	2,744.52	-508.93	-54.27	57.32	0.00	0.00	0.00
2,900.00	12.99	186.09	2,841.96	-531.28	-56.66	59.84	0.00	0.00	0.00
3,000.00	12.99	186.09	2,939.40	-553.64	-59.04	62.35	0.00	0.00	0.00
3,100.00	12.99	186.09	3,036.84	-575.99	-61.42	64.87	0.00	0.00	0.00
3,200.00	12.99	186.09	3,134.28	-598.35	-63.81	67.39	0.00	0.00	0.00
3,300.00	12.99	186.09	3,231.72	-620.70	-66.19	69.91	0.00	0.00	0.00
3,400.00	12.99	186.09	3,329.16	-643.06	-68.58	72.42	0.00	0.00	0.00
3,500.00	12.99	186.09	3,426.60	-665.41	-70.96	74.94	0.00	0.00	0.00
3,600.00	12.99	186.09	3,524.04	-687.77	-73.34	77.46	0.00	0.00	0.00
3,700.00	12.99	186.09	3,621.48	-710.12	-75.73	79.98	0.00	0.00	0.00
3,800.00	12.99	186.09	3,718.92	-732.48	-78.11	82.50	0.00	0.00	0.00
3,900.00	12.99	186.09	3,816.36	-754.83	-80.49	85.01	0.00	0.00	0.00
4,000.00	12.99	186.09	3,913.80	-777.19	-82.88	87.53	0.00	0.00	0.00
4,100.00	12.99	186.09	4,011.24	-799.54	-85.26	90.05	0.00	0.00	0.00
4,200.00	12.99	186.09	4,108.68	-821.89	-87.65	92.57	0.00	0.00	0.00
4,300.00	12.99	186.09	4,206.12	-844.25	-90.03	95.08	0.00	0.00	0.00
4,400.00	12.99	186.09	4,303.56	-866.60	-92.41	97.60	0.00	0.00	0.00
4,500.00	12.99	186.09	4,401.00	-888.96	-94.80	100.12	0.00	0.00	0.00
4,600.00	12.99	186.09	4,498.44	-911.31	-97.18	102.64	0.00	0.00	0.00
4,700.00	12.99	186.09	4,595.88	-933.67	-99.57	105.16	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 12N-16B-
Company:	SRC ENERGY	TVD Reference:	M KB @ 4820.00ft
Project:	SECTION 15, T6N, R66W	MD Reference:	KB @ 4820.00ft
Site:	HARVESTERS STATE 7-15 PAD	North Reference:	True
Well:	HARVESTERS STATE 12N-16B-	Survey Calculation Method:	Minimum Curvature
Wellbore:	M OH		
Design:	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	12.99	186.09	4,693.32	-956.02	-101.95	107.67	0.00	0.00	0.00
4,900.00	12.99	186.09	4,790.76	-978.38	-104.33	110.19	0.00	0.00	0.00
5,000.00	12.99	186.09	4,888.20	-1,000.73	-106.72	112.71	0.00	0.00	0.00
5,100.00	12.99	186.09	4,985.64	-1,023.09	-109.10	115.23	0.00	0.00	0.00
5,200.00	12.99	186.09	5,083.08	-1,045.44	-111.49	117.74	0.00	0.00	0.00
5,300.00	12.99	186.09	5,180.52	-1,067.80	-113.87	120.26	0.00	0.00	0.00
5,400.00	12.99	186.09	5,277.96	-1,090.15	-116.25	122.78	0.00	0.00	0.00
5,500.00	12.99	186.09	5,375.40	-1,112.51	-118.64	125.30	0.00	0.00	0.00
5,600.00	12.99	186.09	5,472.84	-1,134.86	-121.02	127.81	0.00	0.00	0.00
5,700.00	12.99	186.09	5,570.28	-1,157.22	-123.41	130.33	0.00	0.00	0.00
5,800.00	12.99	186.09	5,667.72	-1,179.57	-125.79	132.85	0.00	0.00	0.00
5,900.00	12.99	186.09	5,765.16	-1,201.93	-128.17	135.37	0.00	0.00	0.00
6,000.00	12.99	186.09	5,862.60	-1,224.28	-130.56	137.89	0.00	0.00	0.00
6,100.00	12.99	186.09	5,960.05	-1,246.63	-132.94	140.40	0.00	0.00	0.00
6,200.00	12.99	186.09	6,057.49	-1,268.99	-135.32	142.92	0.00	0.00	0.00
6,300.00	12.99	186.09	6,154.93	-1,291.34	-137.71	145.44	0.00	0.00	0.00
6,400.00	12.99	186.09	6,252.37	-1,313.70	-140.09	147.96	0.00	0.00	0.00
6,500.00	12.99	186.09	6,349.81	-1,336.05	-142.48	150.47	0.00	0.00	0.00
6,600.00	12.99	186.09	6,447.25	-1,358.41	-144.86	152.99	0.00	0.00	0.00
6,613.27	12.99	186.09	6,460.18	-1,361.38	-145.18	153.33	0.00	0.00	0.00
Start DLS 9.00 TFO 83.70									
6,700.00	15.84	215.73	6,544.28	-1,380.71	-153.13	161.40	9.00	3.28	34.18
6,800.00	22.23	235.51	6,638.86	-1,402.55	-176.74	185.14	9.00	6.39	19.78
6,900.00	29.95	246.18	6,728.65	-1,423.38	-215.25	223.77	9.00	7.71	10.67
7,000.00	38.19	252.68	6,811.45	-1,442.71	-267.70	276.33	9.00	8.24	6.50
7,100.00	46.67	257.14	6,885.21	-1,460.04	-332.80	341.54	9.00	8.49	4.46
7,200.00	55.29	260.49	6,948.11	-1,474.96	-408.96	417.78	9.00	8.62	3.35
7,300.00	63.98	263.20	6,998.62	-1,487.09	-494.29	503.18	9.00	8.69	2.71
7,400.00	72.72	265.54	7,035.48	-1,496.15	-586.69	595.64	9.00	8.74	2.33
7,500.00	81.48	267.66	7,057.79	-1,501.90	-683.90	692.88	9.00	8.76	2.12
7,598.67	90.13	269.66	7,065.00	-1,504.19	-782.18	791.17	9.00	8.77	2.03
Start 7380.51 hold at 7598.67 MD - TOP HARVESTERS 12N-16B-M(1817 FSL 2229 FWL)									
7,600.00	90.13	269.66	7,065.00	-1,504.20	-783.51	792.50	0.02	0.02	0.00
7,700.00	90.13	269.66	7,064.77	-1,504.80	-883.50	892.50	0.00	0.00	0.00
7,800.00	90.13	269.66	7,064.54	-1,505.40	-983.50	992.50	0.00	0.00	0.00
7,900.00	90.13	269.66	7,064.31	-1,505.99	-1,083.50	1,092.50	0.00	0.00	0.00
8,000.00	90.13	269.66	7,064.08	-1,506.59	-1,183.50	1,192.50	0.00	0.00	0.00
8,100.00	90.13	269.66	7,063.85	-1,507.19	-1,283.50	1,292.50	0.00	0.00	0.00
8,200.00	90.13	269.66	7,063.62	-1,507.79	-1,383.49	1,392.50	0.00	0.00	0.00
8,300.00	90.13	269.66	7,063.39	-1,508.39	-1,483.49	1,492.50	0.00	0.00	0.00
8,400.00	90.13	269.66	7,063.16	-1,508.99	-1,583.49	1,592.50	0.00	0.00	0.00
8,500.00	90.13	269.66	7,062.93	-1,509.59	-1,683.49	1,692.50	0.00	0.00	0.00
8,600.00	90.13	269.66	7,062.70	-1,510.19	-1,783.49	1,792.50	0.00	0.00	0.00
8,700.00	90.13	269.66	7,062.47	-1,510.78	-1,883.48	1,892.50	0.00	0.00	0.00
8,800.00	90.13	269.66	7,062.24	-1,511.38	-1,983.48	1,992.50	0.00	0.00	0.00
8,900.00	90.13	269.66	7,062.01	-1,511.98	-2,083.48	2,092.50	0.00	0.00	0.00
9,000.00	90.13	269.66	7,061.78	-1,512.58	-2,183.48	2,192.50	0.00	0.00	0.00
9,100.00	90.13	269.66	7,061.55	-1,513.18	-2,283.48	2,292.50	0.00	0.00	0.00
9,200.00	90.13	269.66	7,061.31	-1,513.78	-2,383.47	2,392.50	0.00	0.00	0.00
9,300.00	90.13	269.66	7,061.08	-1,514.38	-2,483.47	2,492.50	0.00	0.00	0.00
9,400.00	90.13	269.66	7,060.85	-1,514.98	-2,583.47	2,592.50	0.00	0.00	0.00
9,500.00	90.13	269.66	7,060.62	-1,515.58	-2,683.47	2,692.50	0.00	0.00	0.00
9,600.00	90.13	269.66	7,060.39	-1,516.17	-2,783.47	2,792.49	0.00	0.00	0.00
9,700.00	90.13	269.66	7,060.16	-1,516.77	-2,883.46	2,892.49	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 12N-16B-
Company:	SRC ENERGY	TVD Reference:	M KB @ 4820.00ft
Project:	SECTION 15, T6N, R66W	MD Reference:	KB @ 4820.00ft
Site:	HARVESTERS STATE 7-15 PAD	North Reference:	True
Well:	HARVESTERS STATE 12N-16B-	Survey Calculation Method:	Minimum Curvature
Wellbore:	M OH		
Design:	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)
9,800.00	90.13	269.66	7,059.93	-1,517.37	-2,983.46	2,992.49	0.00	0.00	0.00
9,900.00	90.13	269.66	7,059.70	-1,517.97	-3,083.46	3,092.49	0.00	0.00	0.00
10,000.00	90.13	269.66	7,059.47	-1,518.57	-3,183.46	3,192.49	0.00	0.00	0.00
10,100.00	90.13	269.66	7,059.24	-1,519.17	-3,283.46	3,292.49	0.00	0.00	0.00
10,200.00	90.13	269.66	7,059.01	-1,519.77	-3,383.45	3,392.49	0.00	0.00	0.00
10,300.00	90.13	269.66	7,058.78	-1,520.37	-3,483.45	3,492.49	0.00	0.00	0.00
10,400.00	90.13	269.66	7,058.55	-1,520.97	-3,583.45	3,592.49	0.00	0.00	0.00
10,500.00	90.13	269.66	7,058.32	-1,521.56	-3,683.45	3,692.49	0.00	0.00	0.00
10,600.00	90.13	269.66	7,058.09	-1,522.16	-3,783.45	3,792.49	0.00	0.00	0.00
10,700.00	90.13	269.66	7,057.86	-1,522.76	-3,883.44	3,892.49	0.00	0.00	0.00
10,800.00	90.13	269.66	7,057.63	-1,523.36	-3,983.44	3,992.49	0.00	0.00	0.00
10,900.00	90.13	269.66	7,057.40	-1,523.96	-4,083.44	4,092.49	0.00	0.00	0.00
11,000.00	90.13	269.66	7,057.17	-1,524.56	-4,183.44	4,192.49	0.00	0.00	0.00
11,100.00	90.13	269.66	7,056.94	-1,525.16	-4,283.43	4,292.49	0.00	0.00	0.00
11,200.00	90.13	269.66	7,056.71	-1,525.76	-4,383.43	4,392.49	0.00	0.00	0.00
11,300.00	90.13	269.66	7,056.48	-1,526.35	-4,483.43	4,492.49	0.00	0.00	0.00
11,400.00	90.13	269.66	7,056.25	-1,526.95	-4,583.43	4,592.49	0.00	0.00	0.00
11,500.00	90.13	269.66	7,056.02	-1,527.55	-4,683.43	4,692.49	0.00	0.00	0.00
11,600.00	90.13	269.66	7,055.79	-1,528.15	-4,783.42	4,792.49	0.00	0.00	0.00
11,700.00	90.13	269.66	7,055.55	-1,528.75	-4,883.42	4,892.49	0.00	0.00	0.00
11,800.00	90.13	269.66	7,055.32	-1,529.35	-4,983.42	4,992.49	0.00	0.00	0.00
11,900.00	90.13	269.66	7,055.09	-1,529.95	-5,083.42	5,092.49	0.00	0.00	0.00
12,000.00	90.13	269.66	7,054.86	-1,530.55	-5,183.42	5,192.49	0.00	0.00	0.00
12,100.00	90.13	269.66	7,054.63	-1,531.15	-5,283.41	5,292.49	0.00	0.00	0.00
12,200.00	90.13	269.66	7,054.40	-1,531.74	-5,383.41	5,392.49	0.00	0.00	0.00
12,300.00	90.13	269.66	7,054.17	-1,532.34	-5,483.41	5,492.49	0.00	0.00	0.00
12,400.00	90.13	269.66	7,053.94	-1,532.94	-5,583.41	5,592.49	0.00	0.00	0.00
12,500.00	90.13	269.66	7,053.71	-1,533.54	-5,683.41	5,692.49	0.00	0.00	0.00
12,600.00	90.13	269.66	7,053.48	-1,534.14	-5,783.40	5,792.49	0.00	0.00	0.00
12,700.00	90.13	269.66	7,053.25	-1,534.74	-5,883.40	5,892.49	0.00	0.00	0.00
12,800.00	90.13	269.66	7,053.02	-1,535.34	-5,983.40	5,992.49	0.00	0.00	0.00
12,900.00	90.13	269.66	7,052.79	-1,535.94	-6,083.40	6,092.49	0.00	0.00	0.00
13,000.00	90.13	269.66	7,052.56	-1,536.53	-6,183.40	6,192.49	0.00	0.00	0.00
13,100.00	90.13	269.66	7,052.33	-1,537.13	-6,283.39	6,292.49	0.00	0.00	0.00
13,200.00	90.13	269.66	7,052.10	-1,537.73	-6,383.39	6,392.49	0.00	0.00	0.00
13,300.00	90.13	269.66	7,051.87	-1,538.33	-6,483.39	6,492.49	0.00	0.00	0.00
13,400.00	90.13	269.66	7,051.64	-1,538.93	-6,583.39	6,592.48	0.00	0.00	0.00
13,500.00	90.13	269.66	7,051.41	-1,539.53	-6,683.39	6,692.48	0.00	0.00	0.00
13,600.00	90.13	269.66	7,051.18	-1,540.13	-6,783.38	6,792.48	0.00	0.00	0.00
13,700.00	90.13	269.66	7,050.95	-1,540.73	-6,883.38	6,892.48	0.00	0.00	0.00
13,800.00	90.13	269.66	7,050.72	-1,541.33	-6,983.38	6,992.48	0.00	0.00	0.00
13,900.00	90.13	269.66	7,050.49	-1,541.92	-7,083.38	7,092.48	0.00	0.00	0.00
14,000.00	90.13	269.66	7,050.26	-1,542.52	-7,183.38	7,192.48	0.00	0.00	0.00
14,100.00	90.13	269.66	7,050.03	-1,543.12	-7,283.37	7,292.48	0.00	0.00	0.00
14,200.00	90.13	269.66	7,049.80	-1,543.72	-7,383.37	7,392.48	0.00	0.00	0.00
14,300.00	90.13	269.66	7,049.56	-1,544.32	-7,483.37	7,492.48	0.00	0.00	0.00
14,400.00	90.13	269.66	7,049.33	-1,544.92	-7,583.37	7,592.48	0.00	0.00	0.00
14,500.00	90.13	269.66	7,049.10	-1,545.52	-7,683.36	7,692.48	0.00	0.00	0.00
14,600.00	90.13	269.66	7,048.87	-1,546.12	-7,783.36	7,792.48	0.00	0.00	0.00
14,700.00	90.13	269.66	7,048.64	-1,546.72	-7,883.36	7,892.48	0.00	0.00	0.00
14,800.00	90.13	269.66	7,048.41	-1,547.31	-7,983.36	7,992.48	0.00	0.00	0.00
14,900.00	90.13	269.66	7,048.18	-1,547.91	-8,083.36	8,092.48	0.00	0.00	0.00
14,979.18	90.13	269.66	7,048.00	-1,548.39	-8,162.54	8,171.66	0.00	0.00	0.00
TD at 14979.18 - PBHL_HARVESTERS 12N-16B-M(1849 FSL 150 FWL)									

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 12N-16B-
Company:	SRC ENERGY	TVD Reference:	M KB @ 4820.00ft
Project:	SECTION 15, T6N, R66W	MD Reference:	KB @ 4820.00ft
Site:	HARVESTERS STATE 7-15 PAD	North Reference:	True
Well:	HARVESTERS STATE 12N-16B-	Survey Calculation Method:	Minimum Curvature
Wellbore:	M OH		
Design:	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)

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL_HARVESTERS 1	0.00	0.00	7,048.00	-1,548.39	-8,162.54	1,420,672.35	3,196,971.52	40.4859880	-104.7918620
- plan hits target center									
- Point									
TOP_HARVESTERS 12	0.00	0.00	7,065.00	-1,504.19	-782.18	1,420,777.93	3,204,351.24	40.4861130	-104.7653290
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,779.35	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)	
200.00	200.00	0.00	0.00	Start Build 2.00
849.60	844.05	-72.92	-7.78	Start 5763.67 hold at 849.60 MD
6,613.27	6,460.18	-1,361.38	-145.18	Start DLS 9.00 TFO 83.70
7,598.67	7,065.00	-1,504.19	-782.18	Start 7380.51 hold at 7598.67 MD
14,979.18	7,048.00	-1,548.39	-8,162.54	TD at 14979.18