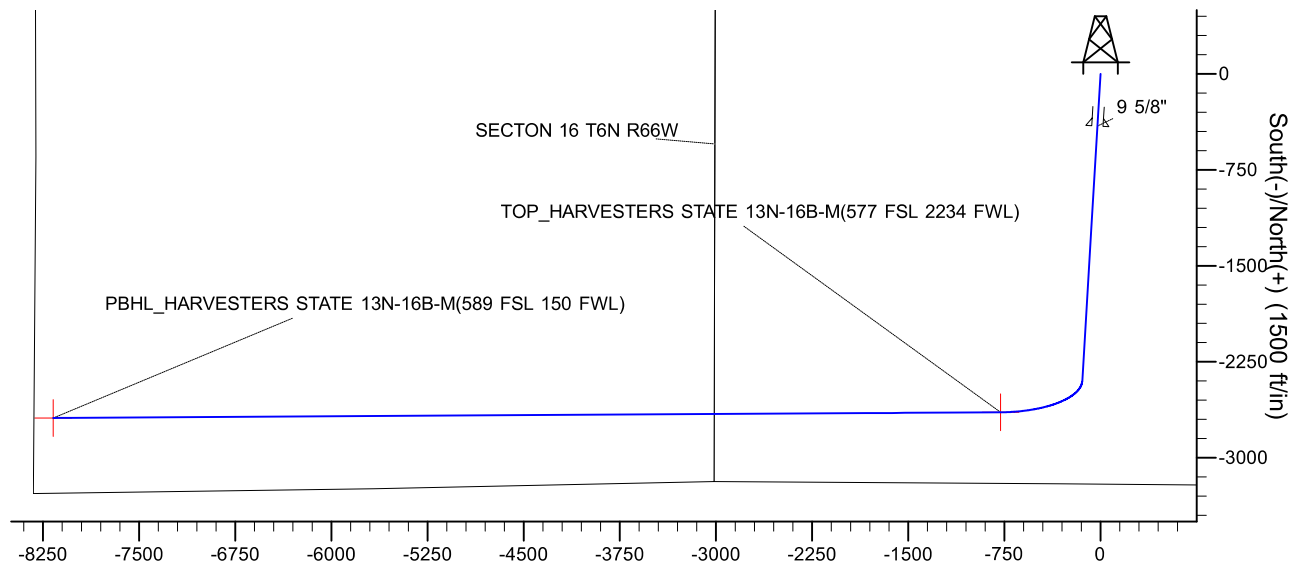
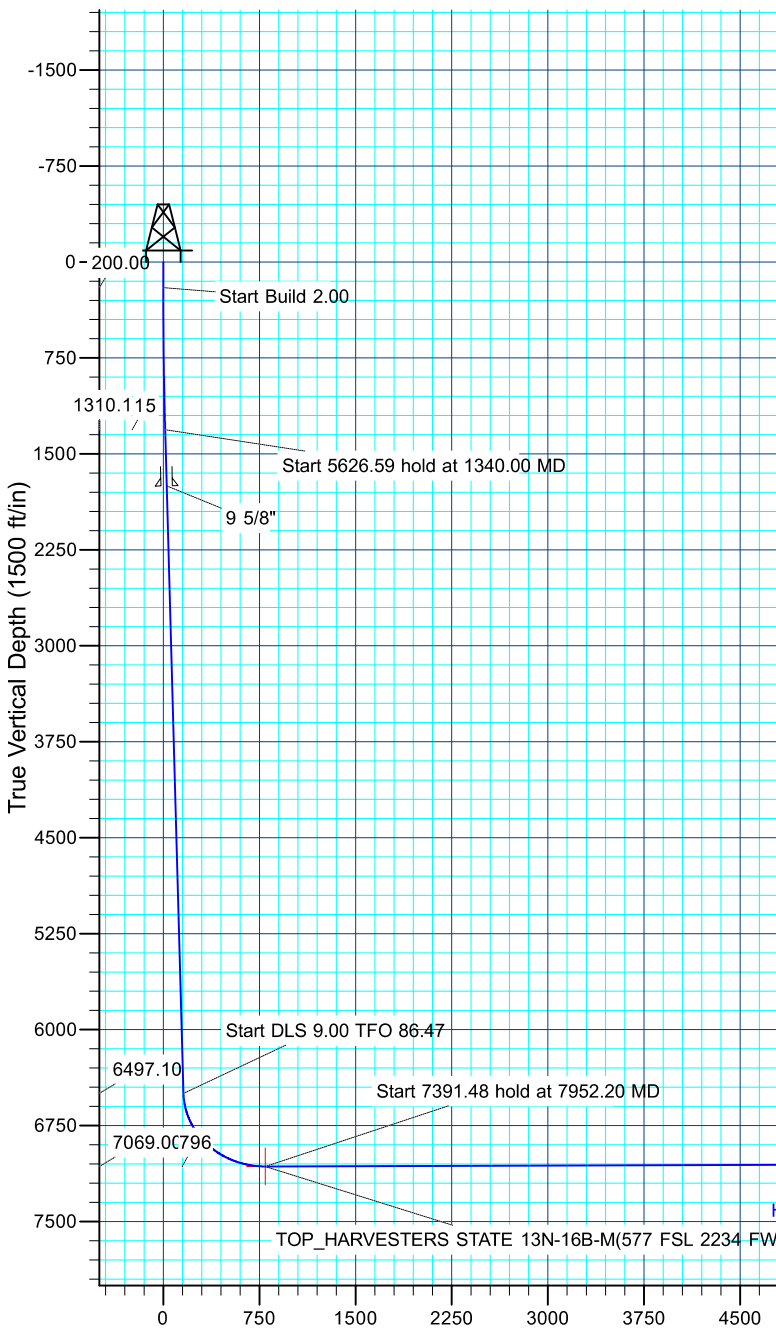
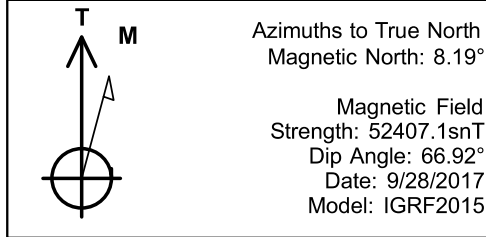




Project: SECTION 15, T6N, R66W  
Site: HARVESTERS STATE 7-15 PAD  
Well: HARVESTERS STATE 13N-16B-M  
Wellbore: OH  
Design: PLAN #1  
Lat: 40.4899130  
Long: -104.7625200



DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	7047.00	-2688.67	-8171.02	1419412.19	3196972.68	40.4825290	-104.7918940	Point	
TOP	7069.00	-2644.47	-779.71	1419517.86	3204363.34	40.4826540	-104.7653230	Point	

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	
1340.00	22.80	183.41	1310.15	-223.45	-13.31	2.00	183.41	14.65	
6966.60	22.80	183.41	6497.10	-2399.99	-143.00	0.00	0.00	157.35	
7952.20	90.17	269.66	7069.00	-2644.47	-779.71	9.00	86.47	795.51	
15343.67	90.17	269.66	7047.00	-2688.67	-8171.02	0.00	0.00	8186.95	PBHL

CASING DETAILS					PROJECT DETAILS: SECTION 15, T6N, R66W				
TVD	MD	Name	Size		Geodetic System: US State Plane 1983				
1750.00	1817.13		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 13N-16B-M**

**OH**

**Plan: PLAN #1**

## **Standard Planning Report**

**02 October, 2017**



<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 13N-16B-M
<b>Company:</b>	SRC ENERGY	<b>TVD Reference:</b>	KB @ 4819.00ft
<b>Project:</b>	SECTION 15, T6N, R66W	<b>MD Reference:</b>	KB @ 4819.00ft
<b>Site:</b>	HARVESTERS STATE 7-15 PAD	<b>North Reference:</b>	True
<b>Well:</b>	HARVESTERS STATE 13N-16B-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

<b>Project</b>	SECTION 15, T6N, 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		

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

<b>Well</b>	HARVESTERS STATE 13N-16B-M, 2073' FNL & 2337' FEL			
<b>Well Position</b>	<b>+N/-S</b>	-479.80 ft	<b>Northing:</b>	1,422,168.71 usft
	<b>+E/-W</b>	-3.89 ft	<b>Easting:</b>	3,205,121.04 usft
<b>Position Uncertainty</b>		3.28 ft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 40.4899130
				<b>Longitude:</b> -104.7625200
				<b>Ground Level:</b> 4,799.00 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	9/28/2017	8.19	66.92	52,407

<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	269.66

<b>Plan Survey Tool Program</b>	<b>Date</b>	10/2/2017		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	15,343.33	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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,340.01	22.80	183.41	1,310.16	-223.45	-13.31	2.00	2.00	0.00	183.41	
6,966.60	22.80	183.41	6,497.10	-2,399.99	-143.00	0.00	0.00	0.00	0.00	
7,952.20	90.17	269.66	7,069.00	-2,644.47	-779.71	9.00	6.84	8.75	86.47	
15,343.67	90.17	269.66	7,047.00	-2,688.67	-8,171.02	0.00	0.00	0.00	0.00	PBHL_HARVESTERS

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 13N-16B-M
<b>Company:</b>	SRC ENERGY	<b>TVD Reference:</b>	KB @ 4819.00ft
<b>Project:</b>	SECTION 15, T6N, R66W	<b>MD Reference:</b>	KB @ 4819.00ft
<b>Site:</b>	HARVESTERS STATE 7-15 PAD	<b>North Reference:</b>	True
<b>Well:</b>	HARVESTERS STATE 13N-16B-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
<b>Start Build 2.00</b>									
300.00	2.00	183.41	299.98	-1.74	-0.10	0.11	2.00	2.00	0.00
400.00	4.00	183.41	399.84	-6.97	-0.42	0.46	2.00	2.00	0.00
500.00	6.00	183.41	499.45	-15.67	-0.93	1.03	2.00	2.00	0.00
600.00	8.00	183.41	598.70	-27.83	-1.66	1.82	2.00	2.00	0.00
700.00	10.00	183.41	697.47	-43.45	-2.59	2.85	2.00	2.00	0.00
800.00	12.00	183.41	795.62	-62.49	-3.72	4.10	2.00	2.00	0.00
900.00	14.00	183.41	893.06	-84.95	-5.06	5.57	2.00	2.00	0.00
1,000.00	16.00	183.41	989.64	-110.78	-6.60	7.26	2.00	2.00	0.00
1,100.00	18.00	183.41	1,085.27	-139.96	-8.34	9.18	2.00	2.00	0.00
1,200.00	20.00	183.41	1,179.82	-172.46	-10.28	11.31	2.00	2.00	0.00
1,300.00	22.00	183.41	1,273.17	-208.23	-12.41	13.65	2.00	2.00	0.00
1,340.01	22.80	183.41	1,310.16	-223.45	-13.31	14.65	2.00	2.00	0.00
<b>Start 5626.59 hold at 1340.00 MD</b>									
1,400.00	22.80	183.41	1,365.46	-246.66	-14.70	16.17	0.00	0.00	0.00
1,500.00	22.80	183.41	1,457.65	-285.34	-17.00	18.71	0.00	0.00	0.00
1,600.00	22.80	183.41	1,549.83	-324.03	-19.31	21.24	0.00	0.00	0.00
1,700.00	22.80	183.41	1,642.02	-362.71	-21.61	23.78	0.00	0.00	0.00
1,800.00	22.80	183.41	1,734.21	-401.39	-23.92	26.32	0.00	0.00	0.00
1,817.13	22.80	183.41	1,750.00	-408.02	-24.31	26.75	0.00	0.00	0.00
<b>9 5/8"</b>									
1,900.00	22.80	183.41	1,826.39	-440.07	-26.22	28.85	0.00	0.00	0.00
2,000.00	22.80	183.41	1,918.58	-478.76	-28.53	31.39	0.00	0.00	0.00
2,100.00	22.80	183.41	2,010.77	-517.44	-30.83	33.92	0.00	0.00	0.00
2,200.00	22.80	183.41	2,102.95	-556.12	-33.14	36.46	0.00	0.00	0.00
2,300.00	22.80	183.41	2,195.14	-594.81	-35.44	39.00	0.00	0.00	0.00
2,400.00	22.80	183.41	2,287.32	-633.49	-37.74	41.53	0.00	0.00	0.00
2,500.00	22.80	183.41	2,379.51	-672.17	-40.05	44.07	0.00	0.00	0.00
2,600.00	22.80	183.41	2,471.70	-710.86	-42.35	46.60	0.00	0.00	0.00
2,700.00	22.80	183.41	2,563.88	-749.54	-44.66	49.14	0.00	0.00	0.00
2,800.00	22.80	183.41	2,656.07	-788.22	-46.96	51.68	0.00	0.00	0.00
2,900.00	22.80	183.41	2,748.26	-826.91	-49.27	54.21	0.00	0.00	0.00
3,000.00	22.80	183.41	2,840.44	-865.59	-51.57	56.75	0.00	0.00	0.00
3,100.00	22.80	183.41	2,932.63	-904.27	-53.88	59.28	0.00	0.00	0.00
3,200.00	22.80	183.41	3,024.81	-942.96	-56.18	61.82	0.00	0.00	0.00
3,300.00	22.80	183.41	3,117.00	-981.64	-58.49	64.36	0.00	0.00	0.00
3,400.00	22.80	183.41	3,209.19	-1,020.32	-60.79	66.89	0.00	0.00	0.00
3,500.00	22.80	183.41	3,301.37	-1,059.00	-63.10	69.43	0.00	0.00	0.00
3,600.00	22.80	183.41	3,393.56	-1,097.69	-65.40	71.97	0.00	0.00	0.00
3,700.00	22.80	183.41	3,485.75	-1,136.37	-67.71	74.50	0.00	0.00	0.00
3,800.00	22.80	183.41	3,577.93	-1,175.05	-70.01	77.04	0.00	0.00	0.00
3,900.00	22.80	183.41	3,670.12	-1,213.74	-72.32	79.57	0.00	0.00	0.00
4,000.00	22.80	183.41	3,762.30	-1,252.42	-74.62	82.11	0.00	0.00	0.00
4,100.00	22.80	183.41	3,854.49	-1,291.10	-76.93	84.65	0.00	0.00	0.00
4,200.00	22.80	183.41	3,946.68	-1,329.79	-79.23	87.18	0.00	0.00	0.00
4,300.00	22.80	183.41	4,038.86	-1,368.47	-81.54	89.72	0.00	0.00	0.00
4,400.00	22.80	183.41	4,131.05	-1,407.15	-83.84	92.25	0.00	0.00	0.00
4,500.00	22.80	183.41	4,223.24	-1,445.84	-86.15	94.79	0.00	0.00	0.00
4,600.00	22.80	183.41	4,315.42	-1,484.52	-88.45	97.33	0.00	0.00	0.00
4,700.00	22.80	183.41	4,407.61	-1,523.20	-90.76	99.86	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 13N-16B-M
<b>Company:</b>	SRC ENERGY	<b>TVD Reference:</b>	KB @ 4819.00ft
<b>Project:</b>	SECTION 15, T6N, R66W	<b>MD Reference:</b>	KB @ 4819.00ft
<b>Site:</b>	HARVESTERS STATE 7-15 PAD	<b>North Reference:</b>	True
<b>Well:</b>	HARVESTERS STATE 13N-16B-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	22.80	183.41	4,499.79	-1,561.89	-93.06	102.40	0.00	0.00	0.00
4,900.00	22.80	183.41	4,591.98	-1,600.57	-95.37	104.93	0.00	0.00	0.00
5,000.00	22.80	183.41	4,684.17	-1,639.25	-97.67	107.47	0.00	0.00	0.00
5,100.00	22.80	183.41	4,776.35	-1,677.93	-99.98	110.01	0.00	0.00	0.00
5,200.00	22.80	183.41	4,868.54	-1,716.62	-102.28	112.54	0.00	0.00	0.00
5,300.00	22.80	183.41	4,960.73	-1,755.30	-104.59	115.08	0.00	0.00	0.00
5,400.00	22.80	183.41	5,052.91	-1,793.98	-106.89	117.62	0.00	0.00	0.00
5,500.00	22.80	183.41	5,145.10	-1,832.67	-109.20	120.15	0.00	0.00	0.00
5,600.00	22.80	183.41	5,237.28	-1,871.35	-111.50	122.69	0.00	0.00	0.00
5,700.00	22.80	183.41	5,329.47	-1,910.03	-113.80	125.22	0.00	0.00	0.00
5,800.00	22.80	183.41	5,421.66	-1,948.72	-116.11	127.76	0.00	0.00	0.00
5,900.00	22.80	183.41	5,513.84	-1,987.40	-118.41	130.30	0.00	0.00	0.00
6,000.00	22.80	183.41	5,606.03	-2,026.08	-120.72	132.83	0.00	0.00	0.00
6,100.00	22.80	183.41	5,698.22	-2,064.77	-123.02	135.37	0.00	0.00	0.00
6,200.00	22.80	183.41	5,790.40	-2,103.45	-125.33	137.90	0.00	0.00	0.00
6,300.00	22.80	183.41	5,882.59	-2,142.13	-127.63	140.44	0.00	0.00	0.00
6,400.00	22.80	183.41	5,974.77	-2,180.82	-129.94	142.98	0.00	0.00	0.00
6,500.00	22.80	183.41	6,066.96	-2,219.50	-132.24	145.51	0.00	0.00	0.00
6,600.00	22.80	183.41	6,159.15	-2,258.18	-134.55	148.05	0.00	0.00	0.00
6,700.00	22.80	183.41	6,251.33	-2,296.86	-136.85	150.58	0.00	0.00	0.00
6,800.00	22.80	183.41	6,343.52	-2,335.55	-139.16	153.12	0.00	0.00	0.00
6,900.00	22.80	183.41	6,435.71	-2,374.23	-141.46	155.66	0.00	0.00	0.00
6,966.60	22.80	183.41	6,497.10	-2,399.99	-143.00	157.35	0.00	0.00	0.00
<b>Start DLS 9.00 TFO 86.47</b>									
7,000.00	23.17	191.05	6,527.86	-2,412.91	-144.64	159.07	9.00	1.11	22.89
7,100.00	26.27	211.39	6,618.85	-2,451.18	-159.97	174.63	9.00	3.10	20.33
7,200.00	31.56	226.53	6,706.47	-2,488.15	-190.55	205.43	9.00	5.30	15.14
7,300.00	38.15	237.31	6,788.56	-2,522.91	-235.64	250.72	9.00	6.59	10.78
7,400.00	45.46	245.21	6,863.10	-2,554.60	-294.11	309.38	9.00	7.31	7.90
7,500.00	53.20	251.30	6,928.26	-2,582.44	-364.53	379.97	9.00	7.73	6.09
7,600.00	61.18	256.25	6,982.42	-2,605.74	-445.17	460.74	9.00	7.99	4.95
7,700.00	69.32	260.48	7,024.26	-2,623.93	-534.04	549.72	9.00	8.14	4.23
7,800.00	77.56	264.28	7,052.75	-2,636.57	-628.95	644.71	9.00	8.23	3.80
7,900.00	85.84	267.84	7,067.18	-2,643.33	-727.57	743.36	9.00	8.28	3.56
7,952.20	90.17	269.66	7,069.00	-2,644.47	-779.71	795.51	9.00	8.30	3.49
<b>Start 7391.48 hold at 7952.20 MD</b>									
7,952.20	90.17	269.66	7,069.00	-2,644.47	-779.71	795.51	0.02	0.00	0.00
<b>TOP_HARVESTERS STATE 13N-16B-M(577 FSL 2234 FWL)</b>									
8,000.00	90.17	269.66	7,068.85	-2,644.76	-827.51	843.31	0.00	0.00	0.00
8,100.00	90.17	269.66	7,068.56	-2,645.35	-927.51	943.31	0.00	0.00	0.00
8,200.00	90.17	269.66	7,068.26	-2,645.95	-1,027.51	1,043.31	0.00	0.00	0.00
8,300.00	90.17	269.66	7,067.96	-2,646.55	-1,127.50	1,143.31	0.00	0.00	0.00
8,400.00	90.17	269.66	7,067.66	-2,647.15	-1,227.50	1,243.31	0.00	0.00	0.00
8,500.00	90.17	269.66	7,067.37	-2,647.75	-1,327.50	1,343.31	0.00	0.00	0.00
8,600.00	90.17	269.66	7,067.07	-2,648.34	-1,427.50	1,443.31	0.00	0.00	0.00
8,700.00	90.17	269.66	7,066.77	-2,648.94	-1,527.49	1,543.31	0.00	0.00	0.00
8,800.00	90.17	269.66	7,066.47	-2,649.54	-1,627.49	1,643.31	0.00	0.00	0.00
8,900.00	90.17	269.66	7,066.18	-2,650.14	-1,727.49	1,743.31	0.00	0.00	0.00
9,000.00	90.17	269.66	7,065.88	-2,650.74	-1,827.49	1,843.30	0.00	0.00	0.00
9,100.00	90.17	269.66	7,065.58	-2,651.33	-1,927.49	1,943.30	0.00	0.00	0.00
9,200.00	90.17	269.66	7,065.28	-2,651.93	-2,027.48	2,043.30	0.00	0.00	0.00
9,300.00	90.17	269.66	7,064.99	-2,652.53	-2,127.48	2,143.30	0.00	0.00	0.00
9,400.00	90.17	269.66	7,064.69	-2,653.13	-2,227.48	2,243.30	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 13N-16B-M
<b>Company:</b>	SRC ENERGY	<b>TVD Reference:</b>	KB @ 4819.00ft
<b>Project:</b>	SECTION 15, T6N, R66W	<b>MD Reference:</b>	KB @ 4819.00ft
<b>Site:</b>	HARVESTERS STATE 7-15 PAD	<b>North Reference:</b>	True
<b>Well:</b>	HARVESTERS STATE 13N-16B-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	90.17	269.66	7,064.39	-2,653.73	-2,327.48	2,343.30	0.00	0.00	0.00
9,600.00	90.17	269.66	7,064.09	-2,654.32	-2,427.47	2,443.30	0.00	0.00	0.00
9,700.00	90.17	269.66	7,063.80	-2,654.92	-2,527.47	2,543.30	0.00	0.00	0.00
9,800.00	90.17	269.66	7,063.50	-2,655.52	-2,627.47	2,643.30	0.00	0.00	0.00
9,900.00	90.17	269.66	7,063.20	-2,656.12	-2,727.47	2,743.30	0.00	0.00	0.00
10,000.00	90.17	269.66	7,062.90	-2,656.71	-2,827.47	2,843.30	0.00	0.00	0.00
10,100.00	90.17	269.66	7,062.61	-2,657.31	-2,927.46	2,943.30	0.00	0.00	0.00
10,200.00	90.17	269.66	7,062.31	-2,657.91	-3,027.46	3,043.30	0.00	0.00	0.00
10,300.00	90.17	269.66	7,062.01	-2,658.51	-3,127.46	3,143.30	0.00	0.00	0.00
10,400.00	90.17	269.66	7,061.71	-2,659.11	-3,227.46	3,243.30	0.00	0.00	0.00
10,500.00	90.17	269.66	7,061.41	-2,659.70	-3,327.45	3,343.30	0.00	0.00	0.00
10,600.00	90.17	269.66	7,061.12	-2,660.30	-3,427.45	3,443.30	0.00	0.00	0.00
10,700.00	90.17	269.66	7,060.82	-2,660.90	-3,527.45	3,543.30	0.00	0.00	0.00
10,800.00	90.17	269.66	7,060.52	-2,661.50	-3,627.45	3,643.30	0.00	0.00	0.00
10,900.00	90.17	269.66	7,060.22	-2,662.10	-3,727.45	3,743.30	0.00	0.00	0.00
11,000.00	90.17	269.66	7,059.93	-2,662.69	-3,827.44	3,843.30	0.00	0.00	0.00
11,100.00	90.17	269.66	7,059.63	-2,663.29	-3,927.44	3,943.30	0.00	0.00	0.00
11,200.00	90.17	269.66	7,059.33	-2,663.89	-4,027.44	4,043.30	0.00	0.00	0.00
11,300.00	90.17	269.66	7,059.03	-2,664.49	-4,127.44	4,143.29	0.00	0.00	0.00
11,400.00	90.17	269.66	7,058.74	-2,665.09	-4,227.43	4,243.29	0.00	0.00	0.00
11,500.00	90.17	269.66	7,058.44	-2,665.68	-4,327.43	4,343.29	0.00	0.00	0.00
11,600.00	90.17	269.66	7,058.14	-2,666.28	-4,427.43	4,443.29	0.00	0.00	0.00
11,700.00	90.17	269.66	7,057.84	-2,666.88	-4,527.43	4,543.29	0.00	0.00	0.00
11,800.00	90.17	269.66	7,057.55	-2,667.48	-4,627.43	4,643.29	0.00	0.00	0.00
11,900.00	90.17	269.66	7,057.25	-2,668.08	-4,727.42	4,743.29	0.00	0.00	0.00
12,000.00	90.17	269.66	7,056.95	-2,668.67	-4,827.42	4,843.29	0.00	0.00	0.00
12,100.00	90.17	269.66	7,056.65	-2,669.27	-4,927.42	4,943.29	0.00	0.00	0.00
12,200.00	90.17	269.66	7,056.36	-2,669.87	-5,027.42	5,043.29	0.00	0.00	0.00
12,300.00	90.17	269.66	7,056.06	-2,670.47	-5,127.41	5,143.29	0.00	0.00	0.00
12,400.00	90.17	269.66	7,055.76	-2,671.06	-5,227.41	5,243.29	0.00	0.00	0.00
12,500.00	90.17	269.66	7,055.46	-2,671.66	-5,327.41	5,343.29	0.00	0.00	0.00
12,600.00	90.17	269.66	7,055.17	-2,672.26	-5,427.41	5,443.29	0.00	0.00	0.00
12,700.00	90.17	269.66	7,054.87	-2,672.86	-5,527.41	5,543.29	0.00	0.00	0.00
12,800.00	90.17	269.66	7,054.57	-2,673.46	-5,627.40	5,643.29	0.00	0.00	0.00
12,900.00	90.17	269.66	7,054.27	-2,674.05	-5,727.40	5,743.29	0.00	0.00	0.00
13,000.00	90.17	269.66	7,053.97	-2,674.65	-5,827.40	5,843.29	0.00	0.00	0.00
13,100.00	90.17	269.66	7,053.68	-2,675.25	-5,927.40	5,943.29	0.00	0.00	0.00
13,200.00	90.17	269.66	7,053.38	-2,675.85	-6,027.39	6,043.29	0.00	0.00	0.00
13,300.00	90.17	269.66	7,053.08	-2,676.45	-6,127.39	6,143.29	0.00	0.00	0.00
13,400.00	90.17	269.66	7,052.78	-2,677.04	-6,227.39	6,243.29	0.00	0.00	0.00
13,500.00	90.17	269.66	7,052.49	-2,677.64	-6,327.39	6,343.29	0.00	0.00	0.00
13,600.00	90.17	269.66	7,052.19	-2,678.24	-6,427.39	6,443.28	0.00	0.00	0.00
13,700.00	90.17	269.66	7,051.89	-2,678.84	-6,527.38	6,543.28	0.00	0.00	0.00
13,800.00	90.17	269.66	7,051.59	-2,679.44	-6,627.38	6,643.28	0.00	0.00	0.00
13,900.00	90.17	269.66	7,051.30	-2,680.03	-6,727.38	6,743.28	0.00	0.00	0.00
14,000.00	90.17	269.66	7,051.00	-2,680.63	-6,827.38	6,843.28	0.00	0.00	0.00
14,100.00	90.17	269.66	7,050.70	-2,681.23	-6,927.37	6,943.28	0.00	0.00	0.00
14,200.00	90.17	269.66	7,050.40	-2,681.83	-7,027.37	7,043.28	0.00	0.00	0.00
14,300.00	90.17	269.66	7,050.11	-2,682.43	-7,127.37	7,143.28	0.00	0.00	0.00
14,400.00	90.17	269.66	7,049.81	-2,683.02	-7,227.37	7,243.28	0.00	0.00	0.00
14,500.00	90.17	269.66	7,049.51	-2,683.62	-7,327.37	7,343.28	0.00	0.00	0.00
14,600.00	90.17	269.66	7,049.21	-2,684.22	-7,427.36	7,443.28	0.00	0.00	0.00
14,700.00	90.17	269.66	7,048.92	-2,684.82	-7,527.36	7,543.28	0.00	0.00	0.00
14,800.00	90.17	269.66	7,048.62	-2,685.42	-7,627.36	7,643.28	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.14 Single User Db	<b>Local Co-ordinate Reference:</b>	Well HARVESTERS STATE 13N-16B-M
<b>Company:</b>	SRC ENERGY	<b>TVD Reference:</b>	KB @ 4819.00ft
<b>Project:</b>	SECTION 15, T6N, R66W	<b>MD Reference:</b>	KB @ 4819.00ft
<b>Site:</b>	HARVESTERS STATE 7-15 PAD	<b>North Reference:</b>	True
<b>Well:</b>	HARVESTERS STATE 13N-16B-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	90.17	269.66	7,048.32	-2,686.01	-7,727.36	7,743.28	0.00	0.00	0.00
15,000.00	90.17	269.66	7,048.02	-2,686.61	-7,827.35	7,843.28	0.00	0.00	0.00
15,100.00	90.17	269.66	7,047.73	-2,687.21	-7,927.35	7,943.28	0.00	0.00	0.00
15,200.00	90.17	269.66	7,047.43	-2,687.81	-8,027.35	8,043.28	0.00	0.00	0.00
15,300.00	90.17	269.66	7,047.13	-2,688.40	-8,127.35	8,143.28	0.00	0.00	0.00
15,343.67	90.17	269.66	7,047.00	-2,688.67	-8,171.02	8,186.95	0.00	0.00	0.00
TD at 15343.67 - PBHL_HARVESTERS STATE 13N-16B-M(589 FSL 150 FWL)									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_HARVESTERS S - plan hits target center - Point	0.00	0.00	7,047.00	-2,688.67	-8,171.02	1,419,412.19	3,196,972.68	40.4825290	-104.7918940
TOP_HARVESTERS ST - plan hits target center - Point	0.00	0.00	7,069.00	-2,644.47	-779.71	1,419,517.86	3,204,363.35	40.4826540	-104.7653230

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,817.13	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
1,340.01	1,310.16	-223.45	-13.31	Start 5626.59 hold at 1340.00 MD
6,966.60	6,497.10	-2,399.99	-143.00	Start DLS 9.00 TFO 86.47
7,952.20	7,069.00	-2,644.47	-779.71	Start 7391.48 hold at 7952.20 MD
15,343.67	7,047.00	-2,688.67	-8,171.02	TD at 15343.67