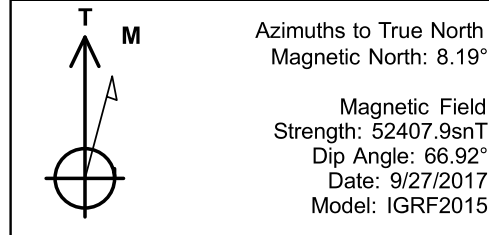
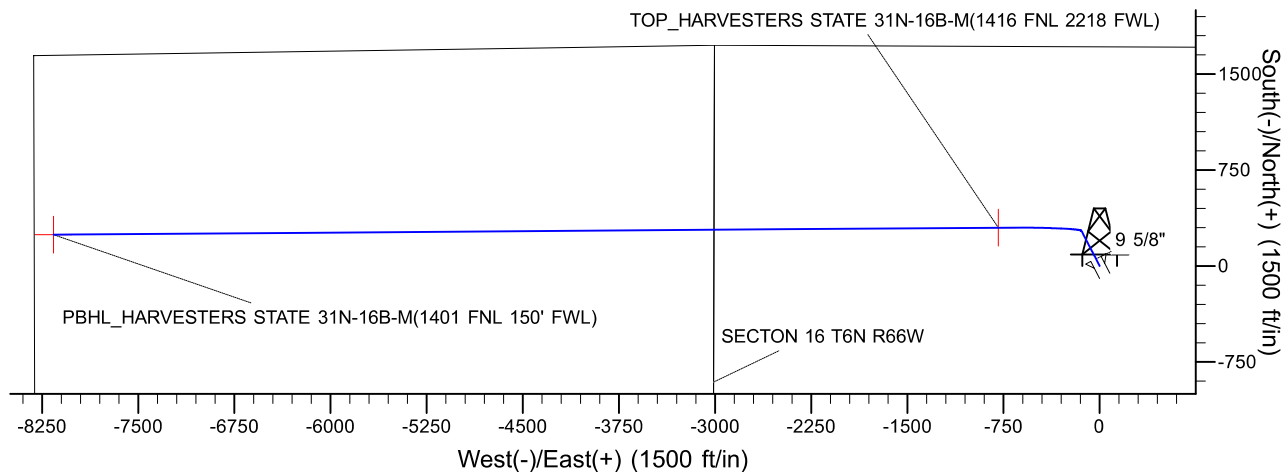
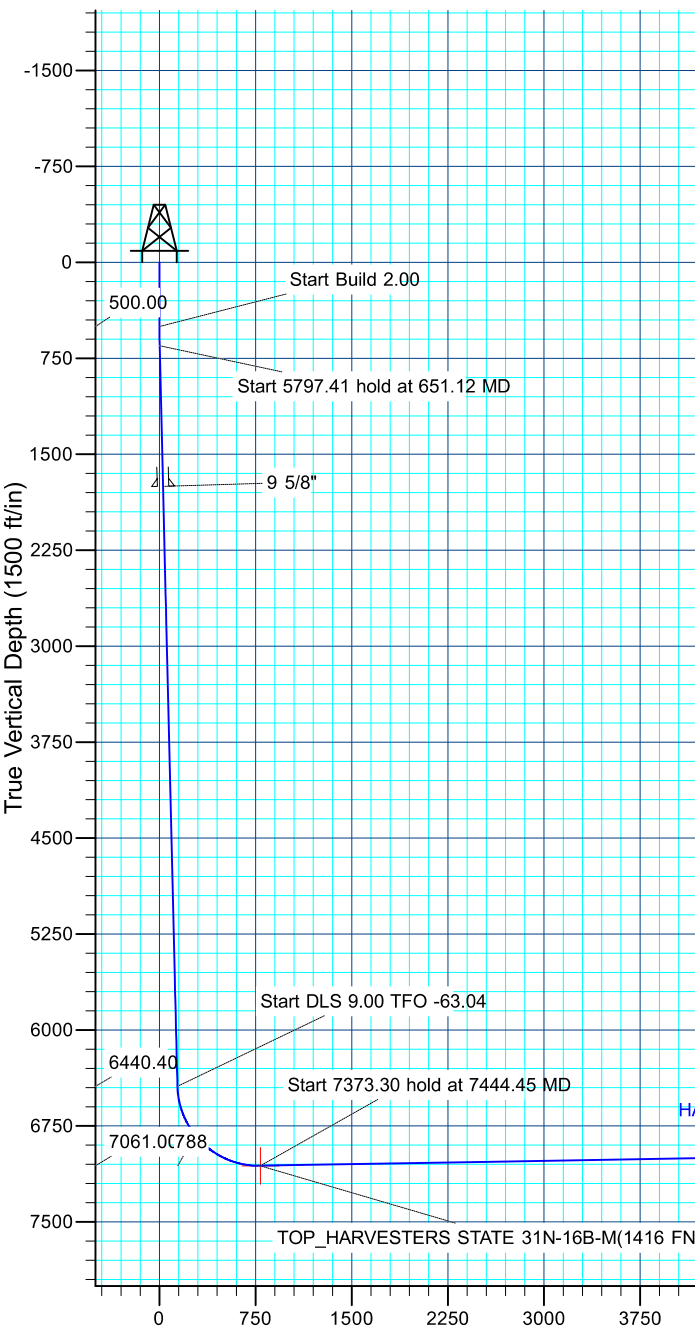




Project: SECTION 15, T6N, R66W
Site: HARVESTERS STATE 7-15 PAD
Well: HARVESTERS STATE 31N-16B-M
Wellbore: OH
Design: PLAN #1
Lat: 40.4909010
Long: -104.7625090



Azimuths to True North
Magnetic North: 8.19°
Magnetic Field
Strength: 52407.9snT
Dip Angle: 66.92°
Date: 9/27/2017
Model: IGRF2015



DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	6932.00	244.35	-8162.14	1422705.12	3196957.23	40.4915680	-104.7918550	Point
TOP	- plan hits target center 7061.00	299.84	-790.18	1422821.92	3204328.46	40.4917240	-104.7653500	Point
- plan hits target center								

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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	
651.12	3.02	332.62	651.05	3.54	-1.83	2.00	332.62	1.81	
6448.53	3.02	332.62	6440.40	274.98	-142.41	0.00	0.00	140.34	
7444.45	91.00	269.57	7061.00	299.84	-790.18	9.00	-63.04	787.90	
14817.75	91.00	269.57	6932.00	244.35	-8162.14	0.00	0.00	8160.07	PBHL

CASING DETAILS					PROJECT DETAILS: SECTION 15, T6N, R66W				
TVD	MD	Name	Size		Geodetic System: US State Plane 1983				
1750.00	1751.60	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				



SRC ENERGY

**SECTION 15, T6N, R66W
HARVESTERS STATE 7-15 PAD
HARVESTERS STATE 31N-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 31N-16B-M
Company:	SRC ENERGY	TVD Reference:	KB @ 4821.00ft
Project:	SECTION 15, T6N, R66W	MD Reference:	KB @ 4821.00ft
Site:	HARVESTERS STATE 7-15 PAD	North Reference:	True
Well:	HARVESTERS STATE 31N-16B-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	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 31N-16B-M, 1713' FNL & 2334' FEL			
Well Position	+N/-S	-119.86 ft	Northing:	1,422,528.66 usft
	+E/-W	-0.83 ft	Easting:	3,205,121.11 usft
Position Uncertainty		3.28 ft	Wellhead Elevation:	Ground Level: 4,801.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/27/2017	8.19	66.92	52,408

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	269.57

Plan Survey Tool Program	Date	10/2/2017		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	14,817.27	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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
651.13	3.02	332.62	651.05	3.54	-1.83	2.00	2.00	0.00	332.62	
6,448.53	3.02	332.62	6,440.40	274.98	-142.41	0.00	0.00	0.00	0.00	
7,444.45	91.00	269.57	7,061.00	299.84	-790.18	9.00	8.83	-6.33	-63.04	
14,817.75	91.00	269.57	6,932.00	244.35	-8,162.14	0.00	0.00	0.00	0.00	PBHL_HARVESTERS

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 31N-16B-M
Company:	SRC ENERGY	TVD Reference:	KB @ 4821.00ft
Project:	SECTION 15, T6N, R66W	MD Reference:	KB @ 4821.00ft
Site:	HARVESTERS STATE 7-15 PAD	North Reference:	True
Well:	HARVESTERS STATE 31N-16B-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
600.00	2.00	332.62	599.98	1.55	-0.80	0.79	2.00	2.00	0.00
651.13	3.02	332.62	651.05	3.54	-1.83	1.81	2.00	2.00	0.00
Start 5797.41 hold at 651.12 MD									
700.00	3.02	332.62	699.86	5.83	-3.02	2.97	0.00	0.00	0.00
800.00	3.02	332.62	799.72	10.51	-5.44	5.36	0.00	0.00	0.00
900.00	3.02	332.62	899.58	15.19	-7.87	7.75	0.00	0.00	0.00
1,000.00	3.02	332.62	999.44	19.87	-10.29	10.14	0.00	0.00	0.00
1,100.00	3.02	332.62	1,099.31	24.56	-12.72	12.53	0.00	0.00	0.00
1,200.00	3.02	332.62	1,199.17	29.24	-15.14	14.92	0.00	0.00	0.00
1,300.00	3.02	332.62	1,299.03	33.92	-17.57	17.31	0.00	0.00	0.00
1,400.00	3.02	332.62	1,398.89	38.60	-19.99	19.70	0.00	0.00	0.00
1,500.00	3.02	332.62	1,498.75	43.28	-22.42	22.09	0.00	0.00	0.00
1,600.00	3.02	332.62	1,598.61	47.97	-24.84	24.48	0.00	0.00	0.00
1,700.00	3.02	332.62	1,698.47	52.65	-27.27	26.87	0.00	0.00	0.00
1,751.60	3.02	332.62	1,750.00	55.06	-28.52	28.10	0.00	0.00	0.00
9 5/8"									
1,800.00	3.02	332.62	1,798.33	57.33	-29.69	29.26	0.00	0.00	0.00
1,900.00	3.02	332.62	1,898.19	62.01	-32.12	31.65	0.00	0.00	0.00
2,000.00	3.02	332.62	1,998.05	66.70	-34.54	34.04	0.00	0.00	0.00
2,100.00	3.02	332.62	2,097.91	71.38	-36.97	36.43	0.00	0.00	0.00
2,200.00	3.02	332.62	2,197.78	76.06	-39.39	38.82	0.00	0.00	0.00
2,300.00	3.02	332.62	2,297.64	80.74	-41.82	41.21	0.00	0.00	0.00
2,400.00	3.02	332.62	2,397.50	85.42	-44.24	43.60	0.00	0.00	0.00
2,500.00	3.02	332.62	2,497.36	90.11	-46.66	45.99	0.00	0.00	0.00
2,600.00	3.02	332.62	2,597.22	94.79	-49.09	48.37	0.00	0.00	0.00
2,700.00	3.02	332.62	2,697.08	99.47	-51.51	50.76	0.00	0.00	0.00
2,800.00	3.02	332.62	2,796.94	104.15	-53.94	53.15	0.00	0.00	0.00
2,900.00	3.02	332.62	2,896.80	108.83	-56.36	55.54	0.00	0.00	0.00
3,000.00	3.02	332.62	2,996.66	113.52	-58.79	57.93	0.00	0.00	0.00
3,100.00	3.02	332.62	3,096.52	118.20	-61.21	60.32	0.00	0.00	0.00
3,200.00	3.02	332.62	3,196.38	122.88	-63.64	62.71	0.00	0.00	0.00
3,300.00	3.02	332.62	3,296.25	127.56	-66.06	65.10	0.00	0.00	0.00
3,400.00	3.02	332.62	3,396.11	132.25	-68.49	67.49	0.00	0.00	0.00
3,500.00	3.02	332.62	3,495.97	136.93	-70.91	69.88	0.00	0.00	0.00
3,600.00	3.02	332.62	3,595.83	141.61	-73.34	72.27	0.00	0.00	0.00
3,700.00	3.02	332.62	3,695.69	146.29	-75.76	74.66	0.00	0.00	0.00
3,800.00	3.02	332.62	3,795.55	150.97	-78.19	77.05	0.00	0.00	0.00
3,900.00	3.02	332.62	3,895.41	155.66	-80.61	79.44	0.00	0.00	0.00
4,000.00	3.02	332.62	3,995.27	160.34	-83.04	81.83	0.00	0.00	0.00
4,100.00	3.02	332.62	4,095.13	165.02	-85.46	84.22	0.00	0.00	0.00
4,200.00	3.02	332.62	4,194.99	169.70	-87.89	86.61	0.00	0.00	0.00
4,300.00	3.02	332.62	4,294.85	174.39	-90.31	89.00	0.00	0.00	0.00
4,400.00	3.02	332.62	4,394.71	179.07	-92.74	91.39	0.00	0.00	0.00
4,500.00	3.02	332.62	4,494.58	183.75	-95.16	93.78	0.00	0.00	0.00
4,600.00	3.02	332.62	4,594.44	188.43	-97.59	96.17	0.00	0.00	0.00
4,700.00	3.02	332.62	4,694.30	193.11	-100.01	98.55	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 31N-16B-M
Company:	SRC ENERGY	TVD Reference:	KB @ 4821.00ft
Project:	SECTION 15, T6N, R66W	MD Reference:	KB @ 4821.00ft
Site:	HARVESTERS STATE 7-15 PAD	North Reference:	True
Well:	HARVESTERS STATE 31N-16B-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	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	3.02	332.62	4,794.16	197.80	-102.44	100.94	0.00	0.00	0.00
4,900.00	3.02	332.62	4,894.02	202.48	-104.86	103.33	0.00	0.00	0.00
5,000.00	3.02	332.62	4,993.88	207.16	-107.29	105.72	0.00	0.00	0.00
5,100.00	3.02	332.62	5,093.74	211.84	-109.71	108.11	0.00	0.00	0.00
5,200.00	3.02	332.62	5,193.60	216.52	-112.14	110.50	0.00	0.00	0.00
5,300.00	3.02	332.62	5,293.46	221.21	-114.56	112.89	0.00	0.00	0.00
5,400.00	3.02	332.62	5,393.32	225.89	-116.98	115.28	0.00	0.00	0.00
5,500.00	3.02	332.62	5,493.18	230.57	-119.41	117.67	0.00	0.00	0.00
5,600.00	3.02	332.62	5,593.05	235.25	-121.83	120.06	0.00	0.00	0.00
5,700.00	3.02	332.62	5,692.91	239.94	-124.26	122.45	0.00	0.00	0.00
5,800.00	3.02	332.62	5,792.77	244.62	-126.68	124.84	0.00	0.00	0.00
5,900.00	3.02	332.62	5,892.63	249.30	-129.11	127.23	0.00	0.00	0.00
6,000.00	3.02	332.62	5,992.49	253.98	-131.53	129.62	0.00	0.00	0.00
6,100.00	3.02	332.62	6,092.35	258.66	-133.96	132.01	0.00	0.00	0.00
6,200.00	3.02	332.62	6,192.21	263.35	-136.38	134.40	0.00	0.00	0.00
6,300.00	3.02	332.62	6,292.07	268.03	-138.81	136.79	0.00	0.00	0.00
6,400.00	3.02	332.62	6,391.93	272.71	-141.23	139.18	0.00	0.00	0.00
6,448.53	3.02	332.62	6,440.40	274.98	-142.41	140.34	0.00	0.00	0.00
Start DLS 9.00 TFO -63.04									
6,500.00	6.58	293.70	6,491.69	277.37	-145.74	143.64	9.00	6.91	-75.63
6,600.00	15.24	279.56	6,589.80	281.87	-163.98	161.85	9.00	8.66	-14.13
6,700.00	24.15	275.64	6,683.86	286.07	-197.36	195.20	9.00	8.91	-3.92
6,800.00	33.10	273.75	6,771.56	289.88	-245.06	242.87	9.00	8.96	-1.89
6,900.00	42.07	272.60	6,850.72	293.19	-305.90	303.68	9.00	8.97	-1.15
7,000.00	51.05	271.80	6,919.40	295.94	-378.38	376.15	9.00	8.98	-0.81
7,100.00	60.04	271.17	6,975.92	298.05	-460.73	458.47	9.00	8.99	-0.63
7,200.00	69.03	270.65	7,018.87	299.46	-550.91	548.64	9.00	8.99	-0.52
7,300.00	78.02	270.19	7,047.21	300.15	-646.70	644.43	9.00	8.99	-0.46
7,400.00	87.01	269.76	7,060.23	300.10	-745.75	743.47	9.00	8.99	-0.43
7,444.45	91.00	269.57	7,061.00	299.84	-790.18	787.90	9.00	8.99	-0.42
Start 7373.30 hold at 7444.45 MD - TOP_HARVESTERS STATE 31N-16B-M(1416 FNL 2218 FWL)									
7,500.00	91.00	269.57	7,060.03	299.42	-845.72	843.44	0.00	0.00	0.00
7,600.00	91.00	269.57	7,058.28	298.67	-945.70	943.43	0.00	0.00	0.00
7,700.00	91.00	269.57	7,056.53	297.92	-1,045.69	1,043.41	0.00	0.00	0.00
7,800.00	91.00	269.57	7,054.78	297.16	-1,145.67	1,143.40	0.00	0.00	0.00
7,900.00	91.00	269.57	7,053.03	296.41	-1,245.65	1,243.38	0.00	0.00	0.00
8,000.00	91.00	269.57	7,051.28	295.66	-1,345.63	1,343.37	0.00	0.00	0.00
8,100.00	91.00	269.57	7,049.53	294.91	-1,445.61	1,443.35	0.00	0.00	0.00
8,200.00	91.00	269.57	7,047.78	294.15	-1,545.59	1,543.34	0.00	0.00	0.00
8,300.00	91.00	269.57	7,046.03	293.40	-1,645.58	1,643.32	0.00	0.00	0.00
8,400.00	91.00	269.57	7,044.28	292.65	-1,745.56	1,743.31	0.00	0.00	0.00
8,500.00	91.00	269.57	7,042.53	291.90	-1,845.54	1,843.29	0.00	0.00	0.00
8,600.00	91.00	269.57	7,040.78	291.14	-1,945.52	1,943.28	0.00	0.00	0.00
8,700.00	91.00	269.57	7,039.03	290.39	-2,045.50	2,043.26	0.00	0.00	0.00
8,800.00	91.00	269.57	7,037.28	289.64	-2,145.49	2,143.24	0.00	0.00	0.00
8,900.00	91.00	269.57	7,035.53	288.88	-2,245.47	2,243.23	0.00	0.00	0.00
9,000.00	91.00	269.57	7,033.78	288.13	-2,345.45	2,343.21	0.00	0.00	0.00
9,100.00	91.00	269.57	7,032.03	287.38	-2,445.43	2,443.20	0.00	0.00	0.00
9,200.00	91.00	269.57	7,030.28	286.63	-2,545.41	2,543.18	0.00	0.00	0.00
9,300.00	91.00	269.57	7,028.54	285.87	-2,645.39	2,643.17	0.00	0.00	0.00
9,400.00	91.00	269.57	7,026.79	285.12	-2,745.38	2,743.15	0.00	0.00	0.00
9,500.00	91.00	269.57	7,025.04	284.37	-2,845.36	2,843.14	0.00	0.00	0.00
9,600.00	91.00	269.57	7,023.29	283.62	-2,945.34	2,943.12	0.00	0.00	0.00
9,700.00	91.00	269.57	7,021.54	282.86	-3,045.32	3,043.11	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 31N-16B-M
Company:	SRC ENERGY	TVD Reference:	KB @ 4821.00ft
Project:	SECTION 15, T6N, R66W	MD Reference:	KB @ 4821.00ft
Site:	HARVESTERS STATE 7-15 PAD	North Reference:	True
Well:	HARVESTERS STATE 31N-16B-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	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	91.00	269.57	7,019.79	282.11	-3,145.30	3,143.09	0.00	0.00	0.00
9,900.00	91.00	269.57	7,018.04	281.36	-3,245.29	3,243.08	0.00	0.00	0.00
10,000.00	91.00	269.57	7,016.29	280.61	-3,345.27	3,343.06	0.00	0.00	0.00
10,100.00	91.00	269.57	7,014.54	279.85	-3,445.25	3,443.05	0.00	0.00	0.00
10,200.00	91.00	269.57	7,012.79	279.10	-3,545.23	3,543.03	0.00	0.00	0.00
10,300.00	91.00	269.57	7,011.04	278.35	-3,645.21	3,643.02	0.00	0.00	0.00
10,400.00	91.00	269.57	7,009.29	277.60	-3,745.20	3,743.00	0.00	0.00	0.00
10,500.00	91.00	269.57	7,007.54	276.84	-3,845.18	3,842.98	0.00	0.00	0.00
10,600.00	91.00	269.57	7,005.79	276.09	-3,945.16	3,942.97	0.00	0.00	0.00
10,700.00	91.00	269.57	7,004.04	275.34	-4,045.14	4,042.95	0.00	0.00	0.00
10,800.00	91.00	269.57	7,002.29	274.58	-4,145.12	4,142.94	0.00	0.00	0.00
10,900.00	91.00	269.57	7,000.54	273.83	-4,245.10	4,242.92	0.00	0.00	0.00
11,000.00	91.00	269.57	6,998.79	273.08	-4,345.09	4,342.91	0.00	0.00	0.00
11,100.00	91.00	269.57	6,997.04	272.33	-4,445.07	4,442.89	0.00	0.00	0.00
11,200.00	91.00	269.57	6,995.29	271.57	-4,545.05	4,542.88	0.00	0.00	0.00
11,300.00	91.00	269.57	6,993.54	270.82	-4,645.03	4,642.86	0.00	0.00	0.00
11,400.00	91.00	269.57	6,991.80	270.07	-4,745.01	4,742.85	0.00	0.00	0.00
11,500.00	91.00	269.57	6,990.05	269.32	-4,845.00	4,842.83	0.00	0.00	0.00
11,600.00	91.00	269.57	6,988.30	268.56	-4,944.98	4,942.82	0.00	0.00	0.00
11,700.00	91.00	269.57	6,986.55	267.81	-5,044.96	5,042.80	0.00	0.00	0.00
11,800.00	91.00	269.57	6,984.80	267.06	-5,144.94	5,142.79	0.00	0.00	0.00
11,900.00	91.00	269.57	6,983.05	266.31	-5,244.92	5,242.77	0.00	0.00	0.00
12,000.00	91.00	269.57	6,981.30	265.55	-5,344.91	5,342.75	0.00	0.00	0.00
12,100.00	91.00	269.57	6,979.55	264.80	-5,444.89	5,442.74	0.00	0.00	0.00
12,200.00	91.00	269.57	6,977.80	264.05	-5,544.87	5,542.72	0.00	0.00	0.00
12,300.00	91.00	269.57	6,976.05	263.30	-5,644.85	5,642.71	0.00	0.00	0.00
12,400.00	91.00	269.57	6,974.30	262.54	-5,744.83	5,742.69	0.00	0.00	0.00
12,500.00	91.00	269.57	6,972.55	261.79	-5,844.81	5,842.68	0.00	0.00	0.00
12,600.00	91.00	269.57	6,970.80	261.04	-5,944.80	5,942.66	0.00	0.00	0.00
12,700.00	91.00	269.57	6,969.05	260.29	-6,044.78	6,042.65	0.00	0.00	0.00
12,800.00	91.00	269.57	6,967.30	259.53	-6,144.76	6,142.63	0.00	0.00	0.00
12,900.00	91.00	269.57	6,965.55	258.78	-6,244.74	6,242.62	0.00	0.00	0.00
13,000.00	91.00	269.57	6,963.80	258.03	-6,344.72	6,342.60	0.00	0.00	0.00
13,100.00	91.00	269.57	6,962.05	257.27	-6,444.71	6,442.59	0.00	0.00	0.00
13,200.00	91.00	269.57	6,960.30	256.52	-6,544.69	6,542.57	0.00	0.00	0.00
13,300.00	91.00	269.57	6,958.55	255.77	-6,644.67	6,642.56	0.00	0.00	0.00
13,400.00	91.00	269.57	6,956.80	255.02	-6,744.65	6,742.54	0.00	0.00	0.00
13,500.00	91.00	269.57	6,955.05	254.26	-6,844.63	6,842.53	0.00	0.00	0.00
13,600.00	91.00	269.57	6,953.31	253.51	-6,944.62	6,942.51	0.00	0.00	0.00
13,700.00	91.00	269.57	6,951.56	252.76	-7,044.60	7,042.49	0.00	0.00	0.00
13,800.00	91.00	269.57	6,949.81	252.01	-7,144.58	7,142.48	0.00	0.00	0.00
13,900.00	91.00	269.57	6,948.06	251.25	-7,244.56	7,242.46	0.00	0.00	0.00
14,000.00	91.00	269.57	6,946.31	250.50	-7,344.54	7,342.45	0.00	0.00	0.00
14,100.00	91.00	269.57	6,944.56	249.75	-7,444.52	7,442.43	0.00	0.00	0.00
14,200.00	91.00	269.57	6,942.81	249.00	-7,544.51	7,542.42	0.00	0.00	0.00
14,300.00	91.00	269.57	6,941.06	248.24	-7,644.49	7,642.40	0.00	0.00	0.00
14,400.00	91.00	269.57	6,939.31	247.49	-7,744.47	7,742.39	0.00	0.00	0.00
14,500.00	91.00	269.57	6,937.56	246.74	-7,844.45	7,842.37	0.00	0.00	0.00
14,600.00	91.00	269.57	6,935.81	245.99	-7,944.43	7,942.36	0.00	0.00	0.00
14,700.00	91.00	269.57	6,934.06	245.23	-8,044.42	8,042.34	0.00	0.00	0.00
14,800.00	91.00	269.57	6,932.31	244.48	-8,144.40	8,142.33	0.00	0.00	0.00
14,817.75	91.00	269.57	6,932.00	244.35	-8,162.14	8,160.07	0.00	0.00	0.00
TD at 14817.75 - PBHL_HARVESTERS STATE 31N-16B-M(1401 FNL 150' FWL)									

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 31N-16B-M
Company:	SRC ENERGY	TVD Reference:	KB @ 4821.00ft
Project:	SECTION 15, T6N, R66W	MD Reference:	KB @ 4821.00ft
Site:	HARVESTERS STATE 7-15 PAD	North Reference:	True
Well:	HARVESTERS STATE 31N-16B-M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_HARVESTERS S - hit/miss target - Shape	0.00	0.00	6,932.00	244.35	-8,162.14	1,422,705.12	3,196,957.23	40.4915680	-104.7918550
TOP_HARVESTERS ST - plan hits target center - Point	0.00	0.00	7,061.00	299.84	-790.18	1,422,821.92	3,204,328.46	40.4917240	-104.7653500

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,751.60	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)	
500.00	500.00	0.00	0.00	Start Build 2.00
651.13	651.05	3.54	-1.83	Start 5797.41 hold at 651.12 MD
6,448.53	6,440.40	274.98	-142.41	Start DLS 9.00 TFO -63.04
7,444.45	7,061.00	299.84	-790.18	Start 7373.30 hold at 7444.45 MD
14,817.75	6,932.00	244.35	-8,162.14	TD at 14817.75