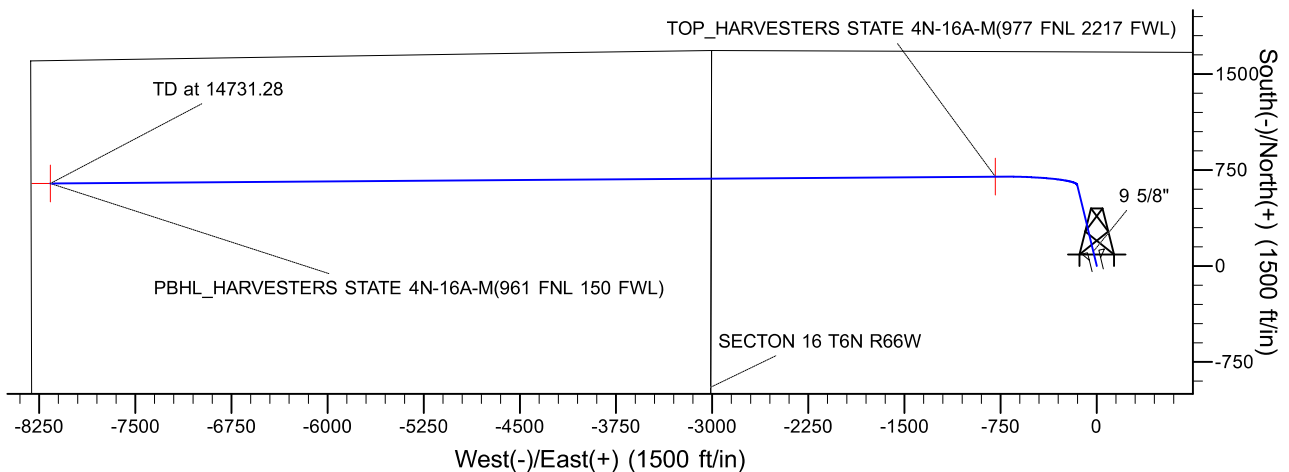
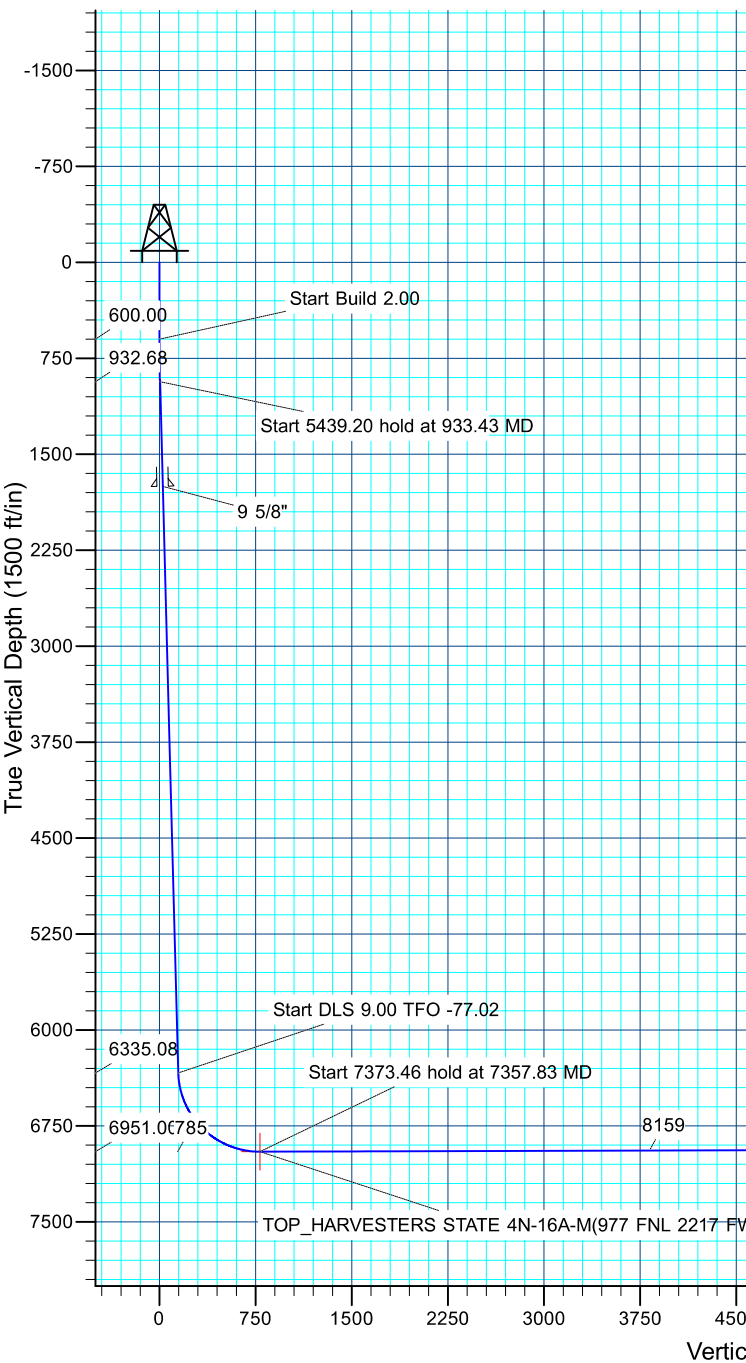
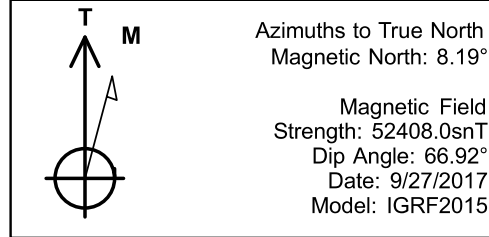




Project: SECTION 15, T6N, R66W
Site: HARVESTERS STATE 7-15 PAD
Well: HARVESTERS STATE 4N-16A-M
Wellbore: OH
Design: PLAN #1
Lat: 40.4910110
Long: -104.7625080



DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL	6929.00	644.36	-8163.66	1423145.17	3196952.32	40.4927760	-104.7918600	Point	
TOP	- plan hits target center	6951.00	698.76	1423260.89	3204324.82	40.4929290	-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	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
933.43	6.67	346.53	932.68	18.85	-4.51	2.00	346.53	4.38	
6372.63	6.67	346.53	6335.08	633.11	-151.65	0.00	0.00	146.98	
7357.83	90.17	269.58	6951.00	698.76	-790.44	9.00	-77.02	785.26	
14731.28	90.17	269.58	6929.00	644.36	-8163.66	0.00	0.00	8158.69	PBHL
CASING DETAILS						PROJECT DETAILS: SECTION 15, T6N, R66W			
TVD	MD	Name	Size	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					
1750.00	1756.32	9 5/8"	9.625						
HARVESTERS STATE 4N-16A-M(961 FNL 150 FWL)									



SRC ENERGY

SECTION 15, T6N, R66W

HARVESTERS STATE 7-15 PAD

HARVESTERS STATE 4N-16A-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 4N-16A-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 4N-16A-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 4N-16A-M, 1673' FNL & 2333' FEL			
Well Position	+N/-S	-79.80 ft	Northing:	1,422,568.73 usft
	+E/-W	-0.56 ft	Easting:	3,205,121.05 usft
Position Uncertainty		3.28 ft	Wellhead Elevation:	Latitude: 40.4910110
				Longitude: -104.7625080
				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	269.58

Plan Survey Tool Program	Date	10/2/2017		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	14,731.23 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	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
933.43	6.67	346.53	932.68	18.85	-4.51	2.00	2.00	0.00	346.53	
6,372.63	6.67	346.53	6,335.08	633.11	-151.65	0.00	0.00	0.00	0.00	
7,357.83	90.17	269.58	6,951.00	698.76	-790.44	9.00	8.48	-7.81	-77.02	
14,731.28	90.17	269.58	6,929.00	644.36	-8,163.66	0.00	0.00	0.00	0.00	PBHL_HARVESTERS

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 4N-16A-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 4N-16A-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
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
700.00	2.00	346.53	699.98	1.70	-0.41	0.39	2.00	2.00	0.00
800.00	4.00	346.53	799.84	6.79	-1.63	1.58	2.00	2.00	0.00
900.00	6.00	346.53	899.45	15.26	-3.66	3.54	2.00	2.00	0.00
933.43	6.67	346.53	932.68	18.85	-4.51	4.38	2.00	2.00	0.00
Start 5439.20 hold at 933.43 MD									
1,000.00	6.67	346.53	998.80	26.37	-6.32	6.12	0.00	0.00	0.00
1,100.00	6.67	346.53	1,098.12	37.66	-9.02	8.74	0.00	0.00	0.00
1,200.00	6.67	346.53	1,197.44	48.95	-11.73	11.36	0.00	0.00	0.00
1,300.00	6.67	346.53	1,296.77	60.25	-14.43	13.99	0.00	0.00	0.00
1,400.00	6.67	346.53	1,396.09	71.54	-17.14	16.61	0.00	0.00	0.00
1,500.00	6.67	346.53	1,495.41	82.83	-19.84	19.23	0.00	0.00	0.00
1,600.00	6.67	346.53	1,594.74	94.13	-22.55	21.85	0.00	0.00	0.00
1,700.00	6.67	346.53	1,694.06	105.42	-25.25	24.47	0.00	0.00	0.00
1,756.32	6.67	346.53	1,750.00	111.78	-26.77	25.95	0.00	0.00	0.00
9 5/8"									
1,800.00	6.67	346.53	1,793.38	116.71	-27.96	27.09	0.00	0.00	0.00
1,900.00	6.67	346.53	1,892.71	128.01	-30.66	29.72	0.00	0.00	0.00
2,000.00	6.67	346.53	1,992.03	139.30	-33.37	32.34	0.00	0.00	0.00
2,100.00	6.67	346.53	2,091.36	150.59	-36.07	34.96	0.00	0.00	0.00
2,200.00	6.67	346.53	2,190.68	161.88	-38.78	37.58	0.00	0.00	0.00
2,300.00	6.67	346.53	2,290.00	173.18	-41.48	40.20	0.00	0.00	0.00
2,400.00	6.67	346.53	2,389.33	184.47	-44.19	42.83	0.00	0.00	0.00
2,500.00	6.67	346.53	2,488.65	195.76	-46.89	45.45	0.00	0.00	0.00
2,600.00	6.67	346.53	2,587.97	207.06	-49.60	48.07	0.00	0.00	0.00
2,700.00	6.67	346.53	2,687.30	218.35	-52.30	50.69	0.00	0.00	0.00
2,800.00	6.67	346.53	2,786.62	229.64	-55.01	53.31	0.00	0.00	0.00
2,900.00	6.67	346.53	2,885.94	240.94	-57.71	55.93	0.00	0.00	0.00
3,000.00	6.67	346.53	2,985.27	252.23	-60.42	58.56	0.00	0.00	0.00
3,100.00	6.67	346.53	3,084.59	263.52	-63.12	61.18	0.00	0.00	0.00
3,200.00	6.67	346.53	3,183.91	274.82	-65.83	63.80	0.00	0.00	0.00
3,300.00	6.67	346.53	3,283.24	286.11	-68.53	66.42	0.00	0.00	0.00
3,400.00	6.67	346.53	3,382.56	297.40	-71.24	69.04	0.00	0.00	0.00
3,500.00	6.67	346.53	3,481.88	308.70	-73.94	71.66	0.00	0.00	0.00
3,600.00	6.67	346.53	3,581.21	319.99	-76.65	74.29	0.00	0.00	0.00
3,700.00	6.67	346.53	3,680.53	331.28	-79.35	76.91	0.00	0.00	0.00
3,800.00	6.67	346.53	3,779.85	342.58	-82.06	79.53	0.00	0.00	0.00
3,900.00	6.67	346.53	3,879.18	353.87	-84.76	82.15	0.00	0.00	0.00
4,000.00	6.67	346.53	3,978.50	365.16	-87.47	84.77	0.00	0.00	0.00
4,100.00	6.67	346.53	4,077.82	376.46	-90.17	87.39	0.00	0.00	0.00
4,200.00	6.67	346.53	4,177.15	387.75	-92.88	90.02	0.00	0.00	0.00
4,300.00	6.67	346.53	4,276.47	399.04	-95.58	92.64	0.00	0.00	0.00
4,400.00	6.67	346.53	4,375.79	410.33	-98.29	95.26	0.00	0.00	0.00
4,500.00	6.67	346.53	4,475.12	421.63	-100.99	97.88	0.00	0.00	0.00
4,600.00	6.67	346.53	4,574.44	432.92	-103.70	100.50	0.00	0.00	0.00
4,700.00	6.67	346.53	4,673.76	444.21	-106.40	103.12	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 4N-16A-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 4N-16A-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	6.67	346.53	4,773.09	455.51	-109.11	105.75	0.00	0.00	0.00
4,900.00	6.67	346.53	4,872.41	466.80	-111.81	108.37	0.00	0.00	0.00
5,000.00	6.67	346.53	4,971.74	478.09	-114.52	110.99	0.00	0.00	0.00
5,100.00	6.67	346.53	5,071.06	489.39	-117.22	113.61	0.00	0.00	0.00
5,200.00	6.67	346.53	5,170.38	500.68	-119.93	116.23	0.00	0.00	0.00
5,300.00	6.67	346.53	5,269.71	511.97	-122.64	118.85	0.00	0.00	0.00
5,400.00	6.67	346.53	5,369.03	523.27	-125.34	121.48	0.00	0.00	0.00
5,500.00	6.67	346.53	5,468.35	534.56	-128.05	124.10	0.00	0.00	0.00
5,600.00	6.67	346.53	5,567.68	545.85	-130.75	126.72	0.00	0.00	0.00
5,700.00	6.67	346.53	5,667.00	557.15	-133.46	129.34	0.00	0.00	0.00
5,800.00	6.67	346.53	5,766.32	568.44	-136.16	131.96	0.00	0.00	0.00
5,900.00	6.67	346.53	5,865.65	579.73	-138.87	134.59	0.00	0.00	0.00
6,000.00	6.67	346.53	5,964.97	591.03	-141.57	137.21	0.00	0.00	0.00
6,100.00	6.67	346.53	6,064.29	602.32	-144.28	139.83	0.00	0.00	0.00
6,200.00	6.67	346.53	6,163.62	613.61	-146.98	142.45	0.00	0.00	0.00
6,300.00	6.67	346.53	6,262.94	624.91	-149.69	145.07	0.00	0.00	0.00
6,372.63	6.67	346.53	6,335.08	633.11	-151.65	146.98	0.00	0.00	0.00
Start DLS 9.00 TFO -77.02									
6,400.00	7.61	328.09	6,362.24	636.19	-152.98	148.28	9.00	3.43	-67.37
6,500.00	14.48	295.77	6,460.41	647.27	-167.77	162.99	9.00	6.87	-32.32
6,600.00	22.86	285.27	6,555.09	657.84	-197.83	192.97	9.00	8.38	-10.50
6,700.00	31.58	280.28	6,643.94	667.65	-242.42	237.49	9.00	8.71	-4.99
6,800.00	40.40	277.29	6,724.78	676.44	-300.45	295.45	9.00	8.83	-2.99
6,900.00	49.29	275.22	6,795.62	684.02	-370.48	365.43	9.00	8.88	-2.06
7,000.00	58.20	273.65	6,854.70	690.18	-450.80	445.69	9.00	8.91	-1.57
7,100.00	67.12	272.35	6,900.58	694.78	-539.42	534.28	9.00	8.93	-1.30
7,200.00	76.06	271.22	6,932.13	697.71	-634.16	628.99	9.00	8.94	-1.13
7,300.00	85.00	270.17	6,948.57	698.89	-732.69	727.51	9.00	8.94	-1.05
7,357.83	90.17	269.58	6,951.00	698.76	-790.44	785.27	9.00	8.94	-1.02
Start 7373.46 hold at 7357.83 MD - TOP HARVESTERS STATE 4N-16A-M(977 FNL 2217 FWL)									
7,400.00	90.17	269.58	6,950.87	698.45	-832.61	827.44	0.00	0.00	0.00
7,500.00	90.17	269.58	6,950.58	697.71	-932.61	927.44	0.00	0.00	0.00
7,600.00	90.17	269.58	6,950.28	696.97	-1,032.61	1,027.44	0.00	0.00	0.00
7,700.00	90.17	269.58	6,949.98	696.24	-1,132.60	1,127.44	0.00	0.00	0.00
7,800.00	90.17	269.58	6,949.68	695.50	-1,232.60	1,227.44	0.00	0.00	0.00
7,900.00	90.17	269.58	6,949.38	694.76	-1,332.60	1,327.44	0.00	0.00	0.00
8,000.00	90.17	269.58	6,949.08	694.02	-1,432.59	1,427.43	0.00	0.00	0.00
8,100.00	90.17	269.58	6,948.79	693.29	-1,532.59	1,527.43	0.00	0.00	0.00
8,200.00	90.17	269.58	6,948.49	692.55	-1,632.59	1,627.43	0.00	0.00	0.00
8,300.00	90.17	269.58	6,948.19	691.81	-1,732.58	1,727.43	0.00	0.00	0.00
8,400.00	90.17	269.58	6,947.89	691.07	-1,832.58	1,827.43	0.00	0.00	0.00
8,500.00	90.17	269.58	6,947.59	690.33	-1,932.58	1,927.43	0.00	0.00	0.00
8,600.00	90.17	269.58	6,947.29	689.60	-2,032.58	2,027.43	0.00	0.00	0.00
8,700.00	90.17	269.58	6,947.00	688.86	-2,132.57	2,127.43	0.00	0.00	0.00
8,800.00	90.17	269.58	6,946.70	688.12	-2,232.57	2,227.43	0.00	0.00	0.00
8,900.00	90.17	269.58	6,946.40	687.38	-2,332.57	2,327.43	0.00	0.00	0.00
9,000.00	90.17	269.58	6,946.10	686.65	-2,432.56	2,427.43	0.00	0.00	0.00
9,100.00	90.17	269.58	6,945.80	685.91	-2,532.56	2,527.43	0.00	0.00	0.00
9,200.00	90.17	269.58	6,945.50	685.17	-2,632.56	2,627.43	0.00	0.00	0.00
9,300.00	90.17	269.58	6,945.21	684.43	-2,732.55	2,727.43	0.00	0.00	0.00
9,400.00	90.17	269.58	6,944.91	683.69	-2,832.55	2,827.43	0.00	0.00	0.00
9,500.00	90.17	269.58	6,944.61	682.96	-2,932.55	2,927.43	0.00	0.00	0.00
9,600.00	90.17	269.58	6,944.31	682.22	-3,032.54	3,027.43	0.00	0.00	0.00
9,700.00	90.17	269.58	6,944.01	681.48	-3,132.54	3,127.43	0.00	0.00	0.00



Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 4N-16A-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 4N-16A-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	90.17	269.58	6,943.71	680.74	-3,232.54	3,227.43	0.00	0.00	0.00
9,900.00	90.17	269.58	6,943.42	680.01	-3,332.53	3,327.43	0.00	0.00	0.00
10,000.00	90.17	269.58	6,943.12	679.27	-3,432.53	3,427.43	0.00	0.00	0.00
10,100.00	90.17	269.58	6,942.82	678.53	-3,532.53	3,527.43	0.00	0.00	0.00
10,200.00	90.17	269.58	6,942.52	677.79	-3,632.52	3,627.43	0.00	0.00	0.00
10,300.00	90.17	269.58	6,942.22	677.05	-3,732.52	3,727.42	0.00	0.00	0.00
10,400.00	90.17	269.58	6,941.92	676.32	-3,832.52	3,827.42	0.00	0.00	0.00
10,500.00	90.17	269.58	6,941.63	675.58	-3,932.51	3,927.42	0.00	0.00	0.00
10,600.00	90.17	269.58	6,941.33	674.84	-4,032.51	4,027.42	0.00	0.00	0.00
10,700.00	90.17	269.58	6,941.03	674.10	-4,132.51	4,127.42	0.00	0.00	0.00
10,800.00	90.17	269.58	6,940.73	673.37	-4,232.51	4,227.42	0.00	0.00	0.00
10,900.00	90.17	269.58	6,940.43	672.63	-4,332.50	4,327.42	0.00	0.00	0.00
11,000.00	90.17	269.58	6,940.13	671.89	-4,432.50	4,427.42	0.00	0.00	0.00
11,100.00	90.17	269.58	6,939.83	671.15	-4,532.50	4,527.42	0.00	0.00	0.00
11,200.00	90.17	269.58	6,939.54	670.41	-4,632.49	4,627.42	0.00	0.00	0.00
11,300.00	90.17	269.58	6,939.24	669.68	-4,732.49	4,727.42	0.00	0.00	0.00
11,400.00	90.17	269.58	6,938.94	668.94	-4,832.49	4,827.42	0.00	0.00	0.00
11,500.00	90.17	269.58	6,938.64	668.20	-4,932.48	4,927.42	0.00	0.00	0.00
11,600.00	90.17	269.58	6,938.34	667.46	-5,032.48	5,027.42	0.00	0.00	0.00
11,700.00	90.17	269.58	6,938.04	666.73	-5,132.48	5,127.42	0.00	0.00	0.00
11,800.00	90.17	269.58	6,937.75	665.99	-5,232.47	5,227.42	0.00	0.00	0.00
11,900.00	90.17	269.58	6,937.45	665.25	-5,332.47	5,327.42	0.00	0.00	0.00
12,000.00	90.17	269.58	6,937.15	664.51	-5,432.47	5,427.42	0.00	0.00	0.00
12,100.00	90.17	269.58	6,936.85	663.77	-5,532.46	5,527.42	0.00	0.00	0.00
12,200.00	90.17	269.58	6,936.55	663.04	-5,632.46	5,627.42	0.00	0.00	0.00
12,300.00	90.17	269.58	6,936.25	662.30	-5,732.46	5,727.42	0.00	0.00	0.00
12,400.00	90.17	269.58	6,935.96	661.56	-5,832.45	5,827.42	0.00	0.00	0.00
12,500.00	90.17	269.58	6,935.66	660.82	-5,932.45	5,927.41	0.00	0.00	0.00
12,600.00	90.17	269.58	6,935.36	660.09	-6,032.45	6,027.41	0.00	0.00	0.00
12,700.00	90.17	269.58	6,935.06	659.35	-6,132.45	6,127.41	0.00	0.00	0.00
12,800.00	90.17	269.58	6,934.76	658.61	-6,232.44	6,227.41	0.00	0.00	0.00
12,900.00	90.17	269.58	6,934.46	657.87	-6,332.44	6,327.41	0.00	0.00	0.00
13,000.00	90.17	269.58	6,934.17	657.14	-6,432.44	6,427.41	0.00	0.00	0.00
13,100.00	90.17	269.58	6,933.87	656.40	-6,532.43	6,527.41	0.00	0.00	0.00
13,200.00	90.17	269.58	6,933.57	655.66	-6,632.43	6,627.41	0.00	0.00	0.00
13,300.00	90.17	269.58	6,933.27	654.92	-6,732.43	6,727.41	0.00	0.00	0.00
13,400.00	90.17	269.58	6,932.97	654.18	-6,832.42	6,827.41	0.00	0.00	0.00
13,500.00	90.17	269.58	6,932.67	653.45	-6,932.42	6,927.41	0.00	0.00	0.00
13,600.00	90.17	269.58	6,932.38	652.71	-7,032.42	7,027.41	0.00	0.00	0.00
13,700.00	90.17	269.58	6,932.08	651.97	-7,132.41	7,127.41	0.00	0.00	0.00
13,800.00	90.17	269.58	6,931.78	651.23	-7,232.41	7,227.41	0.00	0.00	0.00
13,900.00	90.17	269.58	6,931.48	650.50	-7,332.41	7,327.41	0.00	0.00	0.00
14,000.00	90.17	269.58	6,931.18	649.76	-7,432.40	7,427.41	0.00	0.00	0.00
14,100.00	90.17	269.58	6,930.88	649.02	-7,532.40	7,527.41	0.00	0.00	0.00
14,200.00	90.17	269.58	6,930.59	648.28	-7,632.40	7,627.41	0.00	0.00	0.00
14,300.00	90.17	269.58	6,930.29	647.54	-7,732.39	7,727.41	0.00	0.00	0.00
14,400.00	90.17	269.58	6,929.99	646.81	-7,832.39	7,827.41	0.00	0.00	0.00
14,500.00	90.17	269.58	6,929.69	646.07	-7,932.39	7,927.41	0.00	0.00	0.00
14,600.00	90.17	269.58	6,929.39	645.33	-8,032.39	8,027.41	0.00	0.00	0.00
14,700.00	90.17	269.58	6,929.09	644.59	-8,132.38	8,127.41	0.00	0.00	0.00
14,731.28	90.17	269.58	6,929.00	644.36	-8,163.66	8,158.69	0.00	0.00	0.00
TD at 14731.28 - PBHL_HARVESTERS STATE 4N-16A-M(961 FNL 150 FWL)									

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well HARVESTERS STATE 4N-16A-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 4N-16A-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	6,929.00	644.36	-8,163.66	1,423,145.17	3,196,952.32	40.4927760	-104.7918600
TOP_HARVESTERS ST - plan hits target center - Point	0.00	0.00	6,951.00	698.76	-790.44	1,423,260.89	3,204,324.82	40.4929290	-104.7653500

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,756.32	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)	
600.00	600.00	0.00	0.00	Start Build 2.00
933.43	932.68	18.85	-4.51	Start 5439.20 hold at 933.43 MD
6,372.63	6,335.08	633.11	-151.65	Start DLS 9.00 TFO -77.02
7,357.83	6,951.00	698.76	-790.44	Start 7373.46 hold at 7357.83 MD
14,731.28	6,929.00	644.36	-8,163.66	TD at 14731.28