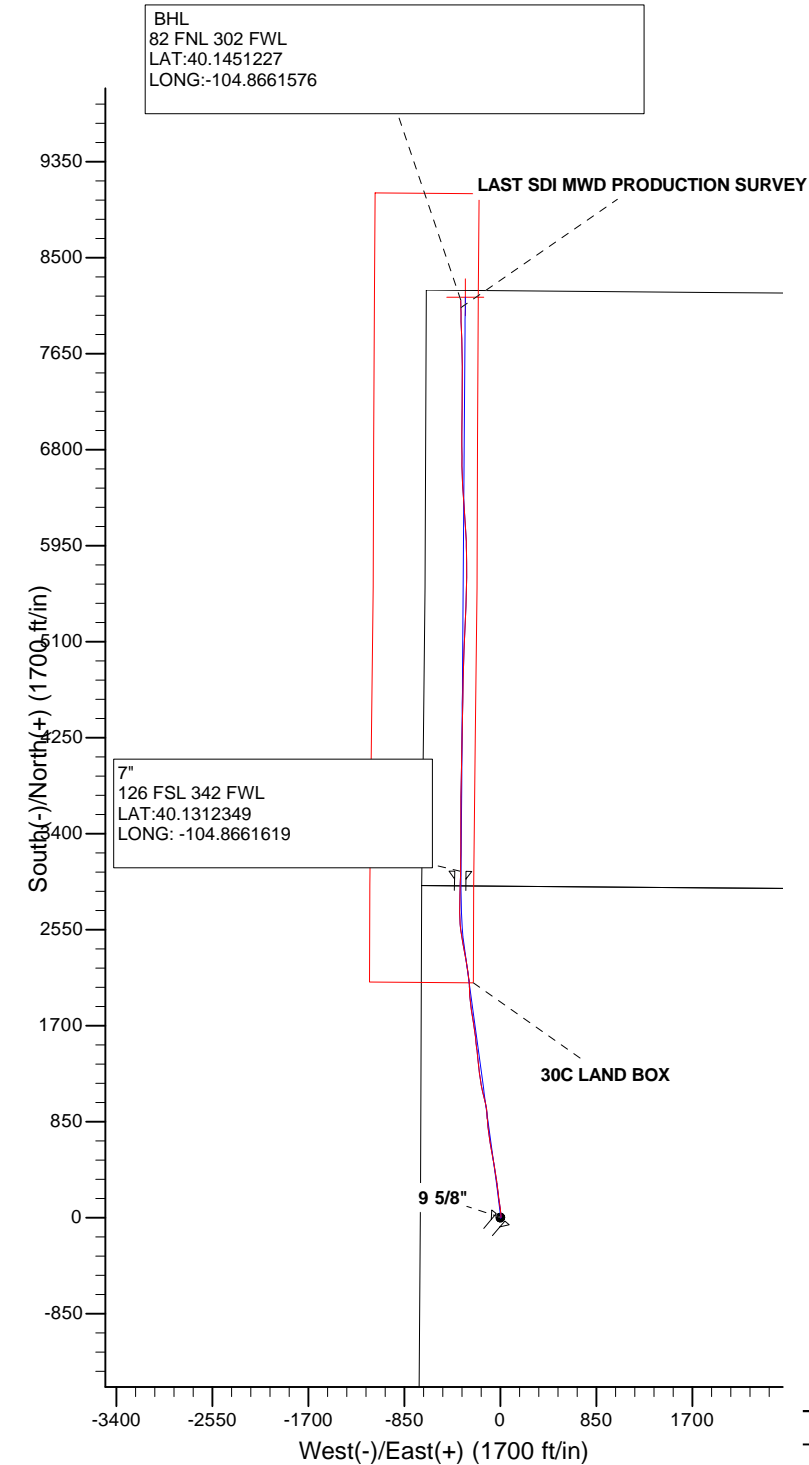
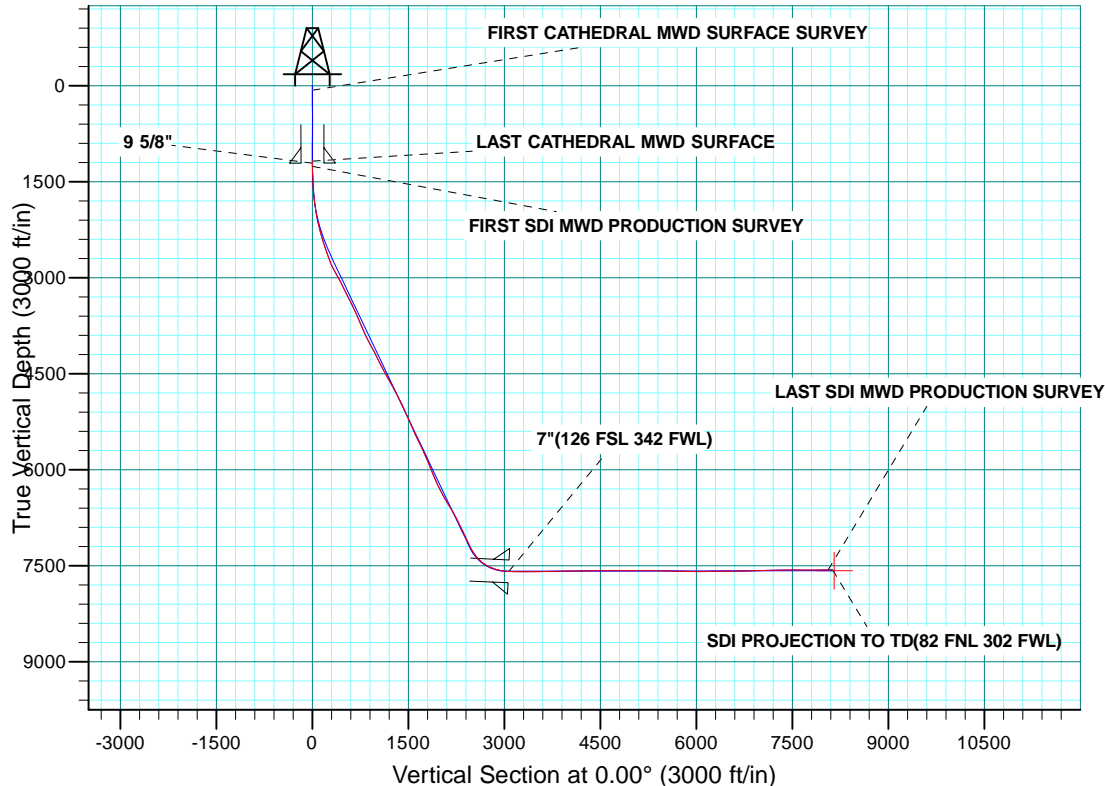


WELL DETAILS: COBRA 30C-14HZ					
GL 4977 & KB 25 @ 5002.00ft (HP 311)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	1288221.80	3177604.44	40.1228160	-104.8648970

PROJECT DETAILS: COLORADO NORTHERN ZONE - 83
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
Location: SECTION 23 T2N R67W
System Datum: Mean Sea Level

CASING DETAILS		
TVD	MD	Name
1212.95	13.00	9 5/8" 9.625
7588.78	5211.00	FSL 342 FWL
		7.000



Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well COBRA 30C-14HZ
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	GL 4977 & KB 25 @ 5002.00ft (HP 311)
Site:	COBRA 12-23HZ PAD	MD Reference:	GL 4977 & KB 25 @ 5002.00ft (HP 311)
Well:	COBRA 30C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Project	COLORADO NORTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		COBRA 12-23HZ PAD, SECTION 23 T2N R67W			
Site Position:		Northing:	1,288,221.81 usft	Latitude:	40.1228160
From:	Lat/Long	Easting:	3,177,604.44 usft	Longitude:	-104.8648970
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.41 °

Well	COBRA 30C-14HZ, 2337 FSL 710 FWL					
Well Position	+N/-S	0.00 ft	Northing:	1,288,221.80 usft	Latitude:	40.1228160
	+E/-W	0.00 ft	Easting:	3,177,604.44 usft	Longitude:	-104.8648970
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,977.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	8/18/2014	8.56	66.70	52,537

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00		0.00

Survey Program	Date	3/13/2015			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
19.00	1,178.00	Survey #1 CATHERDRAL MWD SURFAC	MWD	MWD - Standard	
1,261.00	13,583.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD+IFR+MS	MWD + IFR + Multi Station	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19.00	0.00	0.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	
71.00	0.10	278.40	71.00	0.01	-0.04	0.01	0.19	0.19	0.00	
FIRST CATHEDRAL MWD SURFACE SURVEY										
181.00	0.30	89.30	181.00	0.02	0.15	0.02	0.36	0.18	155.36	
259.00	0.30	71.70	259.00	0.09	0.55	0.09	0.12	0.00	-22.56	
339.00	0.10	38.90	339.00	0.21	0.79	0.21	0.28	-0.25	-41.00	
419.00	0.80	178.50	419.00	-0.29	0.85	-0.29	1.10	0.88	174.50	
499.00	0.90	176.70	498.99	-1.48	0.90	-1.48	0.13	0.13	-2.25	
579.00	0.70	35.20	578.98	-1.71	1.22	-1.71	1.89	-0.25	-176.88	

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well COBRA 30C-14HZ
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	GL 4977 & KB 25 @ 5002.00ft (HP 311)
Site:	COBRA 12-23HZ PAD	MD Reference:	GL 4977 & KB 25 @ 5002.00ft (HP 311)
Well:	COBRA 30C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
659.00	0.70	60.00	658.98	-1.06	1.92	-1.06	0.38	0.00	31.00
739.00	0.90	30.80	738.97	-0.28	2.67	-0.28	0.56	0.25	-36.50
819.00	0.40	63.50	818.97	0.39	3.24	0.39	0.75	-0.63	40.88
899.00	0.20	37.00	898.96	0.62	3.57	0.62	0.30	-0.25	-33.13
979.00	0.90	271.20	978.96	0.75	3.03	0.75	1.29	0.88	-157.25
1,059.00	1.00	280.30	1,058.95	0.88	1.71	0.88	0.23	0.13	11.38
1,139.00	0.40	46.30	1,138.95	1.20	1.23	1.20	1.60	-0.75	157.50
1,178.00	0.30	112.60	1,177.95	1.26	1.42	1.26	1.00	-0.26	170.00
LAST CATHEDRAL MWD SURFACE									
1,213.00	0.32	40.51	1,212.95	1.30	1.57	1.30	1.04	0.05	-205.97
9 5/8"									
1,261.00	0.74	8.57	1,260.94	1.70	1.70	1.70	1.04	0.88	-66.54
FIRST SDI MWD PRODUCTION SURVEY									
1,353.00	1.14	33.56	1,352.93	3.05	2.29	3.05	0.61	0.43	27.16
1,444.00	1.44	23.74	1,443.91	4.85	3.26	4.85	0.41	0.33	-10.79
1,538.00	3.06	9.72	1,537.83	8.41	4.15	8.41	1.81	1.72	-14.91
1,632.00	4.35	3.29	1,631.63	14.44	4.78	14.44	1.44	1.37	-6.84
1,726.00	5.45	356.22	1,725.29	22.45	4.69	22.45	1.33	1.17	-7.52
1,821.00	7.78	352.46	1,819.65	33.33	3.55	33.33	2.49	2.45	-3.96
1,915.00	8.68	351.89	1,912.68	46.66	1.72	46.66	0.96	0.96	-0.61
2,009.00	9.44	353.72	2,005.51	61.35	-0.13	61.35	0.86	0.81	1.95
2,103.00	11.56	354.21	2,097.93	78.38	-1.92	78.38	2.26	2.26	0.52
2,198.00	13.88	352.30	2,190.59	99.15	-4.41	99.15	2.48	2.44	-2.01
2,292.00	14.95	351.49	2,281.63	122.31	-7.71	122.31	1.16	1.14	-0.86
2,386.00	17.08	350.89	2,371.98	147.94	-11.69	147.94	2.27	2.27	-0.64
2,480.00	18.31	353.19	2,461.53	176.23	-15.63	176.23	1.50	1.31	2.45
2,575.00	19.09	354.76	2,551.52	206.52	-18.82	206.52	0.98	0.82	1.65
2,669.00	19.35	351.79	2,640.28	237.24	-22.45	237.24	1.08	0.28	-3.16
2,763.00	19.39	351.39	2,728.96	268.08	-27.01	268.08	0.15	0.04	-0.43
2,857.00	25.70	354.46	2,815.73	303.83	-31.31	303.83	6.83	6.71	3.27
2,951.00	29.41	350.58	2,899.06	346.91	-37.06	346.91	4.38	3.95	-4.13
3,045.00	30.14	350.52	2,980.65	392.95	-44.73	392.95	0.78	0.78	-0.06
3,139.00	27.10	349.83	3,063.16	437.31	-52.40	437.31	3.25	-3.23	-0.73
3,233.00	27.41	348.83	3,146.72	479.61	-60.37	479.61	0.59	0.33	-1.06
3,327.00	26.93	351.19	3,230.35	521.88	-67.82	521.88	1.25	-0.51	2.51
3,421.00	27.10	350.95	3,314.10	564.06	-74.45	564.06	0.21	0.18	-0.26
3,515.00	27.14	351.56	3,397.76	606.41	-80.96	606.41	0.30	0.04	0.65
3,609.00	24.91	351.61	3,482.22	647.21	-87.00	647.21	2.37	-2.37	0.05
3,703.00	23.60	349.82	3,567.93	685.31	-93.21	685.31	1.60	-1.39	-1.90
3,798.00	22.67	348.46	3,655.29	721.97	-100.24	721.97	1.13	-0.98	-1.43
3,892.00	24.59	351.92	3,741.40	759.09	-106.61	759.09	2.52	2.04	3.68
3,986.00	23.64	356.32	3,827.21	797.26	-110.57	797.26	2.16	-1.01	4.68
4,081.00	25.60	354.17	3,913.57	836.69	-113.88	836.69	2.27	2.06	-2.26
4,175.00	29.12	356.98	3,997.04	879.75	-117.15	879.75	3.99	3.74	2.99

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well COBRA 30C-14HZ
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	GL 4977 & KB 25 @ 5002.00ft (HP 311)
Site:	COBRA 12-23HZ PAD	MD Reference:	GL 4977 & KB 25 @ 5002.00ft (HP 311)
Well:	COBRA 30C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,269.00	27.80	356.54	4,079.68	924.47	-119.67	924.47	1.42	-1.40	-0.47
4,364.00	27.38	351.59	4,163.89	968.20	-124.21	968.20	2.45	-0.44	-5.21
4,552.00	26.90	343.20	4,331.25	1,051.71	-142.83	1,051.71	2.05	-0.26	-4.46
4,646.00	28.86	347.79	4,414.35	1,094.25	-153.77	1,094.25	3.09	2.09	4.88
4,741.00	27.95	349.68	4,497.91	1,138.56	-162.61	1,138.56	1.35	-0.96	1.99
4,835.00	30.24	347.75	4,580.05	1,183.37	-171.58	1,183.37	2.63	2.44	-2.05
4,929.00	30.50	351.58	4,661.15	1,230.11	-180.10	1,230.11	2.08	0.28	4.07
5,024.00	28.82	355.29	4,743.71	1,276.78	-185.51	1,276.78	2.62	-1.77	3.91
5,118.00	27.99	352.84	4,826.40	1,321.25	-190.12	1,321.25	1.52	-0.88	-2.61
5,212.00	25.17	351.95	4,910.45	1,362.94	-195.67	1,362.94	3.03	-3.00	-0.95
5,306.00	25.69	354.23	4,995.35	1,403.00	-200.52	1,403.00	1.18	0.55	2.43
5,400.00	24.02	354.30	5,080.64	1,442.32	-204.47	1,442.32	1.78	-1.78	0.07
5,495.00	25.58	353.65	5,166.87	1,481.94	-208.65	1,481.94	1.67	1.64	-0.68
5,589.00	24.62	351.33	5,252.00	1,521.47	-213.85	1,521.47	1.46	-1.02	-2.47
5,683.00	23.24	354.18	5,337.92	1,559.28	-218.68	1,559.28	1.91	-1.47	3.03
5,777.00	23.35	353.43	5,424.26	1,596.23	-222.70	1,596.23	0.34	0.12	-0.80
5,871.00	25.50	354.84	5,509.84	1,634.90	-226.65	1,634.90	2.37	2.29	1.50
5,965.00	26.90	353.15	5,594.18	1,676.16	-231.00	1,676.16	1.69	1.49	-1.80
6,060.00	24.59	351.07	5,679.75	1,717.03	-236.64	1,717.03	2.61	-2.43	-2.19
6,154.00	24.90	349.03	5,765.12	1,755.78	-243.44	1,755.78	0.97	0.33	-2.17
6,248.00	24.33	348.96	5,850.57	1,794.21	-250.91	1,794.21	0.61	-0.61	-0.07
6,342.00	22.32	351.82	5,936.89	1,830.89	-257.16	1,830.89	2.45	-2.14	3.04
6,436.00	21.39	354.70	6,024.14	1,865.63	-261.28	1,865.63	1.51	-0.99	3.06
6,531.00	23.42	352.87	6,111.96	1,901.62	-265.23	1,901.62	2.26	2.14	-1.93
6,625.00	23.64	354.31	6,198.15	1,938.91	-269.41	1,938.91	0.65	0.23	1.53
6,719.00	26.41	355.92	6,283.31	1,978.52	-272.77	1,978.52	3.03	2.95	1.71
6,813.00	27.78	358.65	6,367.00	2,021.28	-274.78	2,021.28	1.97	1.46	2.90
6,908.00	30.93	357.00	6,449.79	2,067.80	-276.57	2,067.80	3.42	3.32	-1.74
7,002.00	31.15	353.45	6,530.34	2,116.09	-280.61	2,116.09	1.96	0.23	-3.78
7,096.00	31.45	351.19	6,610.66	2,164.47	-287.14	2,164.47	1.29	0.32	-2.40
7,190.00	28.19	350.07	6,692.20	2,210.59	-294.73	2,210.59	3.52	-3.47	-1.19
7,284.00	28.37	351.31	6,774.99	2,254.54	-301.93	2,254.54	0.65	0.19	1.32
7,472.00	26.73	351.22	6,941.66	2,340.48	-315.13	2,340.48	0.87	-0.87	-0.05
7,566.00	24.22	349.76	7,026.52	2,380.35	-321.79	2,380.35	2.75	-2.67	-1.55
7,661.00	24.23	346.52	7,113.16	2,418.49	-329.80	2,418.49	1.40	0.01	-3.41
7,755.00	27.46	348.57	7,197.74	2,458.50	-338.59	2,458.50	3.56	3.44	2.18
7,849.00	32.62	352.26	7,279.10	2,504.88	-346.31	2,504.88	5.83	5.49	3.93
7,943.00	37.67	353.35	7,355.94	2,558.55	-353.05	2,558.55	5.41	5.37	1.16
8,038.00	47.45	356.17	7,425.83	2,622.46	-358.76	2,622.46	10.49	10.29	2.97
8,132.00	58.60	359.14	7,482.29	2,697.37	-361.69	2,697.37	12.13	11.86	3.16
8,226.00	66.91	1.53	7,525.29	2,780.86	-361.13	2,780.86	9.12	8.84	2.54
8,321.00	72.58	1.95	7,558.16	2,869.90	-358.42	2,869.90	5.98	5.97	0.44
8,415.00	81.16	1.50	7,579.50	2,961.32	-355.68	2,961.32	9.14	9.13	-0.48

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well COBRA 30C-14HZ
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	GL 4977 & KB 25 @ 5002.00ft (HP 311)
Site:	COBRA 12-23HZ PAD	MD Reference:	GL 4977 & KB 25 @ 5002.00ft (HP 311)
Well:	COBRA 30C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,478.00	86.34	0.85	7,586.35	3,023.91	-354.39	3,023.91	8.29	8.22	-1.03
8,521.00	87.18	0.99	7,588.78	3,066.84	-353.70	3,066.84	1.99	1.96	0.32
7"(126 FSL 342 FWL)									
8,615.00	89.03	1.29	7,591.89	3,160.76	-351.84	3,160.76	1.99	1.96	0.32
8,709.00	89.63	0.05	7,592.99	3,254.75	-350.74	3,254.75	1.47	0.64	-1.32
8,804.00	90.07	0.20	7,593.24	3,349.75	-350.53	3,349.75	0.49	0.46	0.16
8,898.00	90.54	359.77	7,592.73	3,443.74	-350.56	3,443.74	0.68	0.50	-0.46
8,992.00	91.11	0.10	7,591.38	3,537.73	-350.66	3,537.73	0.70	0.61	0.35
9,086.00	90.87	0.37	7,589.76	3,631.72	-350.28	3,631.72	0.38	-0.26	0.29
9,180.00	90.27	0.23	7,588.82	3,725.71	-349.78	3,725.71	0.66	-0.64	-0.15
9,274.00	90.84	0.89	7,587.91	3,819.70	-348.87	3,819.70	0.93	0.61	0.70
9,368.00	91.64	1.33	7,585.88	3,913.66	-347.05	3,913.66	0.97	0.85	0.47
9,462.00	91.14	1.44	7,583.60	4,007.61	-344.77	4,007.61	0.54	-0.53	0.12
9,557.00	90.44	0.62	7,582.29	4,102.58	-343.07	4,102.58	1.13	-0.74	-0.86
9,651.00	90.57	1.06	7,581.46	4,196.57	-341.69	4,196.57	0.49	0.14	0.47
9,745.00	90.94	1.04	7,580.22	4,290.54	-339.97	4,290.54	0.39	0.39	-0.02
9,933.00	90.24	1.49	7,578.28	4,478.48	-335.82	4,478.48	0.44	-0.37	0.24
10,028.00	89.70	1.10	7,578.33	4,573.46	-333.67	4,573.46	0.70	-0.57	-0.41
10,122.00	89.66	0.75	7,578.86	4,667.45	-332.15	4,667.45	0.37	-0.04	-0.37
10,216.00	90.17	0.88	7,579.00	4,761.44	-330.81	4,761.44	0.56	0.54	0.14
10,311.00	91.01	1.84	7,578.02	4,856.40	-328.56	4,856.40	1.34	0.88	1.01
10,405.00	89.73	2.08	7,577.41	4,950.34	-325.34	4,950.34	1.39	-1.36	0.26
10,499.00	90.07	2.21	7,577.58	5,044.28	-321.83	5,044.28	0.39	0.36	0.14
10,593.00	89.90	2.93	7,577.60	5,138.18	-317.61	5,138.18	0.79	-0.18	0.77
10,688.00	90.40	2.81	7,577.35	5,233.06	-312.86	5,233.06	0.54	0.53	-0.13
10,782.00	90.60	2.65	7,576.53	5,326.95	-308.38	5,326.95	0.27	0.21	-0.17
10,876.00	88.76	1.78	7,577.06	5,420.88	-304.75	5,420.88	2.17	-1.96	-0.93
10,971.00	87.85	1.04	7,579.87	5,515.80	-302.41	5,515.80	1.23	-0.96	-0.78
11,065.00	87.62	0.47	7,583.58	5,609.72	-301.17	5,609.72	0.65	-0.24	-0.61
11,159.00	88.59	0.24	7,586.69	5,703.67	-300.59	5,703.67	1.06	1.03	-0.24
11,254.00	88.96	359.76	7,588.72	5,798.64	-300.59	5,798.64	0.64	0.39	-0.51
11,348.00	89.53	359.11	7,589.96	5,892.63	-301.52	5,892.63	0.92	0.61	-0.69
11,442.00	90.50	357.88	7,589.94	5,986.60	-303.98	5,986.60	1.67	1.03	-1.31
11,537.00	90.37	357.05	7,589.21	6,081.50	-308.19	6,081.50	0.88	-0.14	-0.87
11,631.00	90.71	356.50	7,588.33	6,175.35	-313.47	6,175.35	0.69	0.36	-0.59
11,725.00	90.37	355.81	7,587.44	6,269.13	-319.78	6,269.13	0.82	-0.36	-0.73
11,819.00	91.28	354.67	7,586.09	6,362.79	-327.58	6,362.79	1.55	0.97	-1.21
11,914.00	89.40	357.50	7,585.53	6,457.56	-334.06	6,457.56	3.58	-1.98	2.98
12,008.00	89.93	358.36	7,586.08	6,551.49	-337.46	6,551.49	1.07	0.56	0.91
12,102.00	91.44	358.74	7,584.95	6,645.45	-339.83	6,645.45	1.66	1.61	0.40
12,197.00	91.65	359.65	7,582.39	6,740.41	-341.17	6,740.41	0.98	0.22	0.96
12,291.00	91.48	359.55	7,579.82	6,834.37	-341.83	6,834.37	0.21	-0.18	-0.11
12,386.00	91.54	0.31	7,577.32	6,929.34	-341.94	6,929.34	0.80	0.06	0.80

Company:	US ROCKIES REGION PLANNING	Local Co-ordinate Reference:	Well COBRA 30C-14HZ
Project:	COLORADO NORTHERN ZONE - 83	TVD Reference:	GL 4977 & KB 25 @ 5002.00ft (HP 311)
Site:	COBRA 12-23HZ PAD	MD Reference:	GL 4977 & KB 25 @ 5002.00ft (HP 311)
Well:	COBRA 30C-14HZ	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Denver Sales

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,480.00	92.08	0.48	7,574.35	7,023.29	-341.29	7,023.29	0.60	0.57	0.18
12,574.00	92.28	0.10	7,570.77	7,117.22	-340.82	7,117.22	0.46	0.21	-0.40
12,668.00	90.77	1.04	7,568.27	7,211.17	-339.88	7,211.17	1.89	-1.61	1.00
12,762.00	89.90	0.85	7,567.72	7,305.16	-338.33	7,305.16	0.95	-0.93	-0.20
12,857.00	89.77	0.04	7,568.00	7,400.16	-337.59	7,400.16	0.86	-0.14	-0.85
12,951.00	89.90	359.86	7,568.27	7,494.16	-337.68	7,494.16	0.24	0.14	-0.19
13,045.00	90.17	359.09	7,568.21	7,588.15	-338.54	7,588.15	0.87	0.29	-0.82
13,140.00	90.03	358.26	7,568.04	7,683.12	-340.73	7,683.12	0.89	-0.15	-0.87
13,234.00	90.57	358.06	7,567.55	7,777.07	-343.75	7,777.07	0.61	0.57	-0.21
13,328.00	89.87	357.81	7,567.19	7,871.01	-347.14	7,871.01	0.79	-0.74	-0.27
13,422.00	91.51	359.76	7,566.06	7,964.98	-349.13	7,964.98	2.71	1.74	2.07
13,516.00	90.67	358.45	7,564.27	8,058.94	-350.60	8,058.94	1.66	-0.89	-1.39
LAST SDI MWD PRODUCTION SURVEY									
13,583.00	90.67	358.45	7,563.49	8,125.92	-352.41	8,125.92	0.00	0.00	0.00
SDI PROJECTION TO TD(82 FNL 302 FWL)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,213.00	1,212.95	9 5/8"	9.625	13.500	
8,521.00	7,588.78	7"(126 FSL 342 FWL)	7.000	8.750	

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
71.00	71.00	0.01	-0.04	FIRST CATHEDRAL MWD SURFACE SURVEY	
1,178.00	1,177.95	1.26	1.42	LAST CATHEDRAL MWD SURFACE	
1,261.00	1,260.94	1.70	1.70	FIRST SDI MWD PRODUCTION SURVEY	
13,516.00	7,564.27	8,058.94	-350.60	LAST SDI MWD PRODUCTION SURVEY	
13,583.00	7,563.49	8,125.92	-352.41	SDI PROJECTION TO TD(82 FNL 302 FWL)	

Checked By: _____ Approved By: _____ Date: _____