

5D Plan Report

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 06 2018

RECEIVED

**MEWBOURNE**
OIL COMPANY**5D Plan Report**

30.015.45019

Mewbourne Oil Company**Field Name:** *Mewbourne Oil Company (Nad 83 NMEZ)***Site Name:** *South Loving 2/11 Pad***Well Name:** *South Loving 2/11 W0DE State Com 1H***File number:** *13263791***Plan:** *P2:V2*

25 July 2018

**Weatherford®**



South Loving 2/11 WODE State Com 1H

Field Name:	Map Units: US ft		Company Name: Mewbourne Oil Company	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site:	Units: US ft	North Reference: Grid	Convergence Angle: 0.09	
	Position:	Northing: 455848.40 US ft	Latitude: 32.253091085	
		Easting: 593232.50 US ft	Longitude: -104.165461004	
	Elevation above MSL:3152.00 US ft	Comment: Eddy Co., NM		
Slot:	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 455848.40 US ft	Latitude: 32.253091085	
	+E/-W: 0.00 US ft	Easting: 593232.50 US ft	Longitude: -104.165461004	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3152.00 US ft			
	Comment:			
Well:	Type:Main well	UWI:	Plan:P2:V2	
	File Number: 13263791	Comment: Patterson 217		
	Closure Distance:7347.06US ft	Closure Azimuth:187.31°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft	+E/-W: 0.00 US ft	Az: 187.31°	
	Magnetic Parameters:			
Model: bggm2018	Field Strength: 47839.4nT	Declination: 7.18°	Dip: 59.93°	Date: 10/Jul/2018

Drill floor: Plan: P2:V2

Rig Height (Drill Floor): 27.00 US ft **Elevation above MSL:** 3179.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Target set: WODE SC1H Comment:

Target Name:	Shape:	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northings (US ft)	Easting (US ft)	C. Pt. Distance (US ft)	Comment
PBHL	Point	9135.00	-7287.30	-935.20	448561.10	592297.30	0.00	

Casing Points: (Relative to Slot centre)(TVD relative to Drill Floor)

Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northings (US ft)	Easting (US ft)
13 3/8 in	500.01	0.92	300.78	500.00	1.11	-1.50	455849.51	593231.00
9 5/8 in	4349.95	5.61	289.72	4338.00	154.12	-245.66	456002.52	592986.84
7 in	9435.00	81.58	202.18	9117.82	-158.97	-768.39	455689.43	592464.11

Wellpath created using minimum curvature.

SD Plan Report

Tie Point:					
MD: 0.00USFt	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00USFt	North Offset: 0.00USFt	East Offset: 0.00USFt

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	-0.00	0.00	0.00	455848.40	593232.50	0.00	
98.50	0.04	228.93	98.50	0.03	-0.02	-0.03	455848.38	593232.47	0.04	
198.50	0.02	28.40	198.50	0.04	-0.03	-0.04	455848.37	593232.46	0.06	
298.50	0.19	350.33	298.50	-0.14	0.15	-0.06	455848.55	593232.44	0.17	
398.50	0.40	316.77	398.50	-0.52	0.57	-0.33	455848.97	593232.17	0.26	
418.50	0.66	286.25	418.50	-0.58	0.65	-0.49	455849.05	593232.01	1.88	
538.00	1.05	305.00	537.98	-1.20	1.47	-2.05	455849.87	593230.45	0.40	First WFT Svy
599.00	1.55	304.27	598.97	-1.83	2.26	-3.19	455850.66	593229.31	0.82	
660.00	2.64	308.58	659.93	-2.93	3.60	-4.97	455852.00	593227.53	1.80	
721.00	3.52	308.72	720.84	-4.64	5.64	-7.53	455854.04	593224.97	1.44	
781.00	4.42	309.04	780.69	-6.82	8.25	-10.76	455856.65	593221.74	1.50	
848.00	4.81	308.32	847.48	-9.62	11.62	-14.97	455860.02	593217.53	0.59	
911.00	4.46	311.11	910.27	-12.34	14.87	-18.89	455863.27	593213.61	0.66	
975.00	4.14	312.66	974.09	-15.07	18.07	-22.46	455866.47	593210.04	0.53	
1038.00	4.70	310.35	1036.90	-17.79	21.28	-26.10	455869.68	593206.40	0.93	
1102.00	5.07	307.35	1100.67	-20.63	24.70	-30.34	455873.10	593202.16	0.70	
1165.00	5.15	302.95	1163.42	-23.25	27.92	-34.93	455876.32	593197.57	0.63	
1229.00	5.37	303.10	1227.15	-25.80	31.12	-39.85	455879.52	593192.65	0.34	
1293.00	5.34	299.32	1290.87	-28.22	34.21	-44.96	455882.61	593187.54	0.55	
1356.00	5.11	293.55	1353.61	-30.10	36.77	-50.08	455885.17	593182.42	0.91	
1420.00	4.76	291.38	1417.37	-31.54	38.88	-55.17	455887.28	593177.33	0.62	
1484.00	4.44	293.95	1481.17	-32.90	40.85	-59.91	455889.25	593172.59	0.59	
1547.00	3.92	292.69	1544.00	-34.17	42.67	-64.12	455891.07	593168.38	0.84	
1611.00	3.66	297.01	1607.86	-35.43	44.44	-67.96	455892.84	593164.54	0.60	
1674.00	3.32	303.83	1670.74	-36.93	46.37	-71.27	455894.77	593161.23	0.85	
1738.00	2.78	308.18	1734.65	-38.55	48.36	-74.03	455896.76	593158.47	0.92	
1832.00	3.23	315.75	1828.52	-41.37	51.67	-77.67	455900.07	593154.83	0.64	
1930.00	2.08	325.91	1926.42	-44.42	55.12	-80.59	455903.52	593151.91	1.26	
2025.00	2.67	322.91	2021.33	-47.29	58.31	-82.89	455906.71	593149.61	0.63	
2120.00	2.98	318.83	2116.22	-50.51	61.94	-85.85	455910.34	593146.65	0.39	
2215.00	2.77	317.47	2211.10	-53.63	65.49	-89.03	455913.89	593143.47	0.23	
2260.00	2.16	320.01	2256.06	-54.90	66.94	-90.31	455915.34	593142.19	1.38	
2313.00	1.73	317.87	2309.03	-56.10	68.30	-91.49	455916.70	593141.01	0.82	
2407.00	4.08	315.18	2402.90	-59.08	71.72	-94.79	455920.12	593137.71	2.50	
2501.00	5.32	310.22	2496.58	-63.50	76.91	-100.48	455925.31	593132.02	1.39	
2595.00	5.14	311.54	2590.19	-68.23	82.51	-106.96	455930.91	593125.54	0.23	
2689.00	4.93	310.05	2683.83	-72.79	87.90	-113.20	455936.30	593119.30	0.26	
2783.00	4.99	311.02	2777.48	-77.24	93.19	-119.38	455941.59	593113.12	0.11	
2878.00	5.09	309.63	2872.11	-81.79	98.59	-125.74	455946.99	593106.76	0.17	
2971.00	4.76	311.99	2964.76	-86.19	103.80	-131.79	455952.20	593100.71	0.42	
3066.00	5.65	297.76	3059.38	-90.06	108.61	-138.86	455957.01	593093.64	1.64	
3160.00	5.68	292.21	3152.92	-92.88	112.53	-147.26	455960.93	593085.24	0.58	
3254.00	5.46	292.92	3246.47	-95.28	116.03	-155.68	455964.43	593076.82	0.25	
3348.00	5.12	293.34	3340.07	-97.64	119.43	-163.65	455967.83	593068.85	0.36	
3442.00	5.16	294.19	3433.69	-100.02	122.83	-171.36	455971.23	593061.14	0.09	
3536.00	4.93	295.17	3527.33	-102.49	126.28	-178.87	455974.68	593053.63	0.26	
3631.00	4.73	295.89	3621.99	-104.99	129.72	-186.09	455978.12	593046.41	0.22	
3725.00	4.70	293.38	3715.68	-107.29	132.94	-193.11	455981.34	593039.39	0.22	
3820.00	4.53	296.18	3810.37	-109.58	136.14	-200.05	455984.54	593032.45	0.30	
3915.00	4.55	293.25	3905.07	-111.83	139.28	-206.88	455987.68	593025.62	0.25	
4010.00	4.41	295.54	3999.78	-114.01	142.35	-213.64	455990.75	593018.86	0.24	
4105.00	6.01	288.96	4094.38	-116.15	145.54	-221.64	455993.94	593010.86	1.80	
4200.00	6.17	289.81	4188.85	-118.26	148.88	-231.14	455997.28	593001.36	0.19	
4295.00	5.85	289.87	4283.33	-120.42	152.26	-240.50	456000.66	592992.00	0.34	
4390.00	5.44	289.61	4377.87	-122.43	155.42	-249.29	456003.82	592983.21	0.43	

5D Plan Report

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
ID (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
4485.00	5.14	286.75	4472.46	-124.09	158.15	-257.61	456006.55	592974.89	0.42	
4580.00	5.86	297.90	4567.03	-126.49	161.65	-265.97	456010.05	592966.53	1.35	
4674.00	5.45	301.10	4660.57	-129.98	166.20	-274.04	456014.60	592958.46	0.55	
4769.00	5.35	302.80	4755.15	-133.71	170.93	-281.62	456019.33	592950.88	0.20	
4863.00	5.90	294.75	4848.69	-137.04	175.33	-289.69	456023.73	592942.81	1.02	
4957.00	5.91	290.30	4942.20	-139.58	179.03	-298.62	456027.43	592933.88	0.49	
5051.00	5.69	291.77	5035.72	-141.83	182.44	-307.49	456030.84	592925.01	0.28	
5146.00	5.52	292.41	5130.26	-144.20	185.92	-316.08	456034.32	592916.42	0.19	
5241.00	4.88	290.69	5224.87	-146.32	189.09	-324.09	456037.49	592908.41	0.69	
5336.00	4.59	292.80	5319.55	-148.27	192.00	-331.37	456040.40	592901.13	0.36	
5431.00	4.28	293.62	5414.26	-150.28	194.89	-338.12	456043.29	592894.38	0.33	
5526.00	5.10	303.29	5508.94	-153.13	198.63	-344.90	456047.03	592887.60	1.20	
5620.00	4.86	301.56	5602.59	-156.59	203.00	-351.79	456051.40	592880.71	0.30	
5715.00	4.32	296.65	5697.28	-159.43	206.72	-358.41	456055.12	592874.09	0.70	
5810.00	4.19	295.22	5792.02	-161.68	209.80	-364.75	456058.20	592867.75	0.18	
5905.00	4.41	299.23	5886.75	-164.11	213.06	-371.08	456061.46	592861.42	0.39	
5999.00	3.10	289.59	5980.55	-166.00	215.68	-376.63	456064.08	592855.87	1.54	
6094.00	2.60	319.01	6075.44	-167.98	218.17	-380.46	456066.57	592852.04	1.61	
6188.00	4.61	302.00	6169.25	-170.98	221.78	-385.06	456070.18	592847.44	2.40	
6283.00	4.99	287.85	6263.92	-173.33	225.07	-392.23	456073.47	592840.27	1.31	
6378.00	5.59	280.61	6358.52	-174.35	227.19	-400.72	456075.59	592831.78	0.94	
6472.00	4.95	293.38	6452.12	-175.74	229.64	-408.94	456078.04	592823.56	1.42	
6566.00	5.65	305.11	6545.72	-179.02	233.91	-416.45	456082.31	592816.05	1.37	
6661.00	5.75	300.28	6640.25	-183.06	239.00	-424.38	456087.40	592808.12	0.52	
6756.00	5.75	296.61	6734.78	-186.49	243.53	-432.75	456091.93	592799.75	0.39	
6851.00	5.52	296.85	6829.32	-189.59	247.72	-441.08	456096.12	592791.42	0.24	
6946.00	4.75	291.82	6923.94	-192.10	251.25	-448.81	456099.65	592783.69	0.94	
7041.00	5.08	307.02	7018.59	-195.17	255.25	-455.82	456103.65	592776.68	1.41	
7136.00	4.51	293.96	7113.26	-198.33	259.29	-462.59	456107.69	592769.91	1.29	
7231.00	4.77	289.41	7207.95	-200.23	262.12	-469.73	456110.52	592762.77	0.47	
7326.00	3.63	291.41	7302.69	-201.79	264.53	-476.25	456112.93	592756.25	1.21	
7421.00	5.10	295.05	7397.41	-203.81	267.42	-482.88	456115.82	592749.62	1.57	
7516.00	5.01	294.00	7492.04	-206.28	270.90	-490.49	456119.30	592742.01	0.14	
7611.00	4.49	294.66	7586.72	-208.58	274.13	-497.66	456122.53	592734.84	0.55	
7706.00	5.04	303.49	7681.39	-211.53	277.99	-504.52	456126.39	592727.98	0.96	
7801.00	4.07	301.14	7776.09	-214.74	282.03	-510.89	456130.43	592721.61	1.04	
7895.00	4.39	307.80	7869.83	-217.91	285.96	-516.58	456134.36	592715.92	0.62	
7990.00	5.08	308.65	7964.51	-221.94	290.82	-522.74	456139.22	592709.76	0.73	
8085.00	4.26	311.83	8059.19	-226.13	295.80	-528.66	456144.20	592703.84	0.90	
8180.00	4.72	321.97	8153.90	-230.88	301.23	-533.69	456149.63	592698.81	0.96	
8275.00	5.16	314.33	8248.55	-236.20	307.30	-539.16	456155.70	592693.34	0.83	
8369.00	3.98	312.71	8342.25	-240.63	312.46	-544.58	456160.86	592687.92	1.26	
8464.00	3.13	301.89	8437.07	-243.62	316.07	-549.20	456164.47	592683.30	1.14	
8559.00	2.69	292.31	8531.95	-245.28	318.29	-553.47	456166.69	592679.03	0.69	
8602.00	2.45	285.11	8574.90	-245.66	318.91	-555.29	456167.31	592677.21	0.93	
8678.00	4.64	242.44	8650.76	-244.13	317.91	-559.58	456166.31	592672.92	4.33	
8710.00	9.65	224.85	8682.51	-241.26	315.41	-562.62	456163.81	592669.88	16.91	
8741.00	13.91	212.00	8712.85	-235.81	310.40	-566.43	456158.80	592666.07	16.06	
8773.00	17.04	207.47	8743.69	-227.91	302.98	-570.64	456151.38	592661.86	10.48	
8804.00	20.64	205.87	8773.03	-218.46	294.03	-575.12	456142.43	592657.38	11.73	
8836.00	24.78	204.20	8802.54	-206.69	282.83	-580.33	456131.23	592652.17	13.09	
8867.00	28.83	203.53	8830.20	-193.29	270.05	-585.98	456118.45	592646.52	13.10	
8899.00	32.46	203.04	8857.73	-177.62	255.07	-592.42	456103.47	592640.08	11.37	
8930.00	35.67	202.25	8883.41	-160.87	239.04	-599.10	456087.44	592633.40	10.45	
8962.00	39.73	201.47	8908.72	-141.93	220.88	-606.38	456069.28	592626.12	12.77	
8994.00	44.41	202.02	8932.47	-121.18	200.97	-614.33	456049.37	592618.17	14.67	
9025.00	47.56	201.53	8954.00	-99.59	180.27	-622.59	456028.67	592609.91	10.22	
9057.00	50.90	201.29	8974.90	-76.09	157.71	-631.44	456006.11	592601.06	10.45	
9089.00	54.23	201.38	8994.35	-51.44	134.05	-640.68	455982.45	592591.82	10.41	

SD Plan Report

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	
9120.00	57.51	202.53	9011.74	-26.62	110.25	-650.28	455958.65	592582.22	11.02	
9152.00	59.74	203.71	9028.40	-0.33	85.13	-661.01	455933.53	592571.49	7.65	
9183.00	62.69	204.49	9043.32	25.67	60.33	-672.10	455908.73	592560.40	9.77	
9215.00	65.49	204.68	9057.31	53.15	34.16	-684.08	455882.56	592548.42	8.77	
9246.00	67.93	204.31	9069.56	80.36	8.25	-695.88	455856.65	592536.62	7.95	
9278.00	70.84	204.08	9080.83	109.01	-19.06	-708.15	455829.34	592524.35	9.12	
9310.00	73.12	203.57	9090.73	138.19	-46.90	-720.44	455801.50	592512.06	7.28	
9341.00	75.00	203.62	9099.24	166.80	-74.21	-732.38	455774.19	592500.12	6.07	
9373.00	77.53	203.32	9106.84	196.65	-102.73	-744.75	455745.67	592487.75	7.96	
9396.00	79.52	203.00	9111.41	218.33	-123.45	-753.62	455724.95	592478.88	8.76	
9483.00	84.11	201.18	9123.80	301.57	-203.22	-785.99	455645.18	592446.51	5.67	
9515.00	85.52	197.64	9126.69	332.73	-233.27	-796.57	455615.13	592435.93	11.87	
9547.00	87.06	194.42	9128.76	364.29	-263.96	-805.39	455584.44	592427.11	11.13	
9578.00	87.76	192.54	9130.16	395.08	-294.07	-812.61	455554.33	592419.89	6.47	
9610.00	88.60	190.87	9131.18	426.96	-325.39	-819.10	455523.01	592413.40	5.84	
9641.00	89.72	189.91	9131.63	457.91	-355.88	-824.69	455492.52	592407.81	4.76	
9736.00	89.72	188.19	9132.10	552.87	-449.69	-839.63	455398.71	592392.87	1.81	
9831.00	88.60	188.21	9133.49	647.84	-543.71	-853.18	455304.69	592379.32	1.18	
9926.00	90.84	186.46	9133.95	742.83	-637.92	-865.30	455210.48	592367.20	2.99	TieOn Svy
9991.00	90.84	186.46	9133.00	807.82	-702.50	-872.62	455145.90	592359.88	0.00	PTB- Drop/Turn
10149.32	88.66	182.24	9133.69	965.88	-860.31	-884.62	454988.09	592347.88	3.00	Build/Turn
10261.71	90.00	180.44	9135.00	1077.65	-972.66	-887.24	454875.74	592345.26	2.00	Hold
16576.53	90.00	180.44	9135.00	7347.06	-7287.30	-935.20	448561.10	592297.30	0.00	WODE SC1H PBHL

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	
0.00	0.00	0.00	0.00	-0.00	0.00	0.00	455848.40	593232.50	0.00	
100.00	0.04	229.08	100.00	0.03	-0.02	-0.03	455848.38	593232.47	0.06	
200.00	0.02	23.82	200.00	0.03	-0.03	-0.04	455848.37	593232.46	0.17	
300.00	0.19	349.34	300.00	-0.14	0.15	-0.06	455848.55	593232.44	0.26	
400.00	0.41	313.28	400.00	-0.53	0.57	-0.34	455848.97	593232.16	1.88	
500.00	0.92	300.78	499.99	-0.91	1.11	-1.50	455849.51	593231.00	0.40	
500.01	0.92	300.78	500.00	-0.91	1.11	-1.50	455849.51	593231.00	0.40	13 3/8 in
600.00	1.57	304.39	599.97	-1.84	2.27	-3.21	455850.67	593229.29	1.80	
700.00	3.22	308.68	699.87	-4.00	4.87	-6.56	455853.27	593225.94	1.44	
800.00	4.53	308.82	799.64	-7.59	9.18	-11.91	455857.58	593220.59	0.59	
900.00	4.52	310.59	899.30	-11.87	14.30	-18.23	455862.70	593214.27	0.66	
1000.00	4.36	311.67	999.02	-16.12	19.31	-23.83	455867.71	593208.67	0.93	
1100.00	5.06	307.44	1098.68	-20.55	24.59	-30.20	455872.99	593202.30	0.70	
1200.00	5.27	303.03	1198.28	-24.63	29.65	-37.60	455878.05	593194.90	0.34	
1300.00	5.31	298.70	1297.84	-28.46	34.53	-45.52	455882.93	593186.98	0.91	
1400.00	4.87	292.09	1397.44	-31.12	38.26	-53.61	455886.66	593178.89	0.62	
1500.00	4.31	293.66	1497.12	-33.24	41.34	-61.02	455889.74	593171.48	0.84	
1600.00	3.70	296.22	1596.88	-35.20	44.13	-67.33	455892.53	593165.17	0.60	
1700.00	3.10	305.41	1696.70	-37.59	47.20	-72.46	455895.60	593160.04	0.92	
1800.00	3.07	313.42	1796.57	-40.30	50.43	-76.41	455898.83	593156.09	0.64	
1900.00	2.42	321.78	1896.44	-43.56	54.17	-79.89	455902.57	593152.61	1.26	
2000.00	2.51	323.56	1996.36	-46.48	57.41	-82.21	455905.81	593150.29	0.63	
2100.00	2.91	319.62	2096.24	-49.82	61.16	-85.18	455909.56	593147.32	0.39	
2200.00	2.80	317.70	2196.12	-53.16	64.95	-88.53	455913.35	593143.97	0.23	
2300.00	1.84	318.49	2296.03	-55.84	67.99	-91.22	455916.39	593141.28	0.82	
2400.00	3.90	315.27	2395.92	-58.78	71.38	-94.45	455919.78	593138.05	2.50	
2500.00	5.31	310.26	2495.59	-63.45	76.85	-100.41	455925.25	593132.09	1.39	
2600.00	5.13	311.46	2595.17	-68.49	82.81	-107.29	455931.21	593125.21	0.26	
2700.00	4.94	310.16	2694.79	-73.30	88.51	-113.93	455936.91	593118.57	0.11	
2800.00	5.01	310.77	2794.41	-78.06	94.16	-120.50	455942.56	593112.00	0.17	
2900.00	5.01	310.16	2894.02	-82.83	99.83	-127.23	455948.23	593105.27	0.42	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	Comment
3000.00	5.00	307.12	2993.66	-87.50	105.37	-133.69	455953.77	593098.81	1.64	
3100.00	5.65	295.75	3093.21	-91.18	110.12	-141.85	455958.52	593090.65	0.58	
3200.00	5.59	292.51	3192.72	-93.90	114.02	-150.89	455962.42	593081.61	0.25	
3300.00	5.29	293.12	3292.27	-96.44	117.71	-159.65	455966.11	593072.85	0.36	
3400.00	5.14	293.81	3391.86	-98.94	121.29	-167.91	455969.69	593064.59	0.09	
3500.00	5.02	294.78	3491.47	-101.54	124.96	-176.04	455973.36	593056.46	0.26	
3600.00	4.80	295.65	3591.10	-104.18	128.60	-183.77	455977.00	593048.73	0.22	
3700.00	4.71	294.05	3690.76	-106.71	132.12	-191.23	455980.52	593041.27	0.22	
3800.00	4.56	295.57	3790.43	-109.08	135.45	-198.62	455983.85	593033.88	0.30	
3900.00	4.55	293.71	3890.12	-111.50	138.81	-205.79	455987.21	593026.71	0.25	
4000.00	4.42	295.29	3989.81	-113.77	142.02	-212.94	455990.42	593019.56	0.24	
4100.00	5.92	289.22	4089.41	-116.05	145.37	-221.14	455993.77	593011.36	1.80	
4200.00	6.17	289.81	4188.85	-118.26	148.88	-231.14	455997.28	593001.36	0.19	
4300.00	5.83	289.86	4288.30	-120.53	152.43	-240.98	456000.83	592991.52	0.43	
4349.95	5.61	289.72	4338.00	-121.61	154.12	-245.66	456002.52	592986.84	0.43	9 5/8 in
4400.00	5.41	289.32	4387.82	-122.63	155.73	-250.19	456004.13	592982.31	0.42	
4500.00	5.24	288.71	4487.40	-124.34	158.57	-258.90	456006.97	592973.60	1.35	
4600.00	5.77	298.54	4586.92	-127.22	162.61	-267.76	456011.01	592964.74	0.55	
4700.00	5.42	301.56	4686.45	-130.99	167.48	-276.14	456015.88	592956.36	0.20	
4800.00	5.52	299.97	4786.01	-134.90	172.46	-284.13	456020.86	592948.37	1.02	
4900.00	5.90	293.00	4885.50	-138.13	176.87	-293.17	456025.27	592939.33	0.49	
5000.00	5.81	290.96	4984.97	-140.59	180.58	-302.73	456028.98	592929.77	0.28	
5100.00	5.60	292.10	5084.48	-143.05	184.24	-311.96	456032.64	592920.54	0.19	
5200.00	5.16	291.48	5184.03	-145.47	187.80	-320.74	456036.20	592911.76	0.69	
5300.00	4.70	291.97	5283.66	-147.51	190.89	-328.68	456039.29	592903.82	0.36	
5400.00	4.38	293.34	5383.35	-149.63	193.96	-335.98	456042.36	592896.52	0.33	
5500.00	4.86	300.97	5483.04	-152.18	197.43	-342.99	456045.83	592889.51	1.20	
5600.00	4.91	301.94	5582.66	-155.89	202.11	-350.34	456050.51	592882.16	0.30	
5700.00	4.40	297.50	5682.33	-159.05	206.20	-357.40	456054.60	592875.10	0.70	
5800.00	4.20	295.37	5782.05	-161.46	209.49	-364.09	456057.89	592868.41	0.18	
5900.00	4.40	299.03	5881.77	-163.97	212.87	-370.74	456061.27	592861.76	0.39	
6000.00	3.09	289.84	5981.55	-166.02	215.70	-376.68	456064.10	592855.82	1.61	
6100.00	2.72	317.20	6081.43	-168.17	218.37	-380.65	456066.77	592851.85	2.40	
6200.00	4.64	300.10	6181.21	-171.37	222.28	-385.89	456070.68	592846.61	1.31	
6300.00	5.09	286.43	6280.86	-173.59	225.51	-393.66	456073.91	592838.84	0.94	
6400.00	5.42	283.32	6380.42	-174.52	227.62	-402.78	456076.02	592829.72	1.42	
6500.00	5.13	297.20	6480.01	-176.50	230.69	-411.16	456079.09	592821.34	1.37	
6600.00	5.68	303.36	6579.56	-180.54	235.80	-419.22	456084.20	592813.28	0.52	
6700.00	5.75	298.77	6679.06	-184.54	240.92	-427.78	456089.32	592804.72	0.39	
6800.00	5.64	296.72	6778.56	-187.94	245.49	-436.65	456093.89	592795.85	0.24	
6900.00	5.12	294.44	6878.11	-191.02	249.69	-445.17	456098.09	592787.33	0.94	
7000.00	4.90	300.72	6977.74	-193.58	253.26	-452.86	456101.66	592779.64	1.41	
7100.00	4.70	299.27	7077.38	-197.37	258.00	-460.01	456106.40	592772.49	1.29	
7200.00	4.68	290.84	7177.05	-199.66	261.25	-467.33	456109.65	592765.17	0.47	
7300.00	3.94	290.75	7276.75	-201.38	263.92	-474.65	456112.32	592757.85	1.21	
7400.00	4.77	294.44	7376.49	-203.26	266.66	-481.24	456115.06	592751.26	1.57	
7500.00	5.03	294.18	7476.11	-205.88	270.32	-489.21	456118.72	592743.29	0.14	
7600.00	4.55	294.58	7575.75	-208.33	273.77	-496.87	456122.17	592735.63	0.55	
7700.00	5.00	302.99	7675.41	-211.31	277.70	-504.08	456126.10	592728.42	0.96	
7800.00	4.08	301.17	7775.09	-214.71	282.00	-510.83	456130.40	592721.67	1.04	
7900.00	4.43	307.85	7874.82	-218.11	286.20	-516.89	456134.60	592715.61	0.73	
8000.00	4.99	308.94	7974.47	-222.40	291.37	-523.43	456139.77	592709.07	0.90	
8100.00	4.32	313.57	8074.15	-226.78	296.56	-529.48	456144.96	592703.02	0.96	
8200.00	4.81	320.25	8173.83	-232.03	302.52	-534.74	456150.92	592697.76	0.83	
8300.00	4.85	313.98	8273.46	-237.50	308.81	-540.72	456157.21	592691.78	1.26	
8400.00	3.69	309.73	8373.18	-241.79	313.83	-546.14	456162.23	592686.36	1.14	
8500.00	2.95	298.60	8473.02	-244.37	317.03	-550.85	456165.43	592681.65	0.69	
8600.00	2.46	285.48	8572.90	-245.65	318.89	-555.21	456167.29	592677.29	0.93	
8700.00	8.03	227.99	8672.63	-242.45	316.47	-561.51	456164.87	592670.99	16.91	

SD Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	Comment
8800.00	20.17	206.05	8769.28	-219.78	295.28	-574.51	456143.68	592657.99	11.73	
8900.00	32.56	203.01	8858.57	-177.10	254.57	-592.63	456102.97	592639.87	10.45	
9000.00	45.02	201.92	8936.73	-117.09	197.06	-615.91	456045.46	592616.59	10.22	
9100.00	55.39	201.80	9000.69	-42.73	125.69	-643.99	455974.09	592588.51	11.02	
9200.00	64.18	204.59	9050.93	40.20	46.50	-678.42	455894.90	592554.08	8.77	
9300.00	72.41	203.73	9087.76	129.02	-38.15	-716.61	455810.25	592515.89	7.28	
9400.00	79.73	202.92	9112.13	222.12	-127.07	-755.15	455721.33	592477.35	5.67	
9435.00	81.58	202.18	9117.82	255.44	-158.97	-768.39	455689.43	592464.11	5.67	7 in
9500.00	84.86	199.30	9125.43	318.07	-219.09	-791.84	455629.31	592440.66	11.87	
9600.00	88.34	191.39	9130.91	416.99	-315.58	-817.17	455532.82	592415.33	5.84	
9700.00	89.72	188.84	9131.92	516.87	-414.09	-834.30	455434.31	592398.20	1.81	
9800.00	88.97	188.20	9132.83	616.85	-513.03	-848.75	455335.37	592383.75	1.18	
9900.00	90.23	186.94	9134.19	716.84	-612.10	-862.27	455236.30	592370.23	2.99	
9991.00	90.84	186.46	9133.00	807.82	-702.50	-872.62	455145.90	592359.88	0.00	PTB- Drop/Turn
10000.00	90.72	186.22	9132.88	816.82	-711.44	-873.61	455136.96	592358.89	3.00	
10100.00	89.34	183.55	9132.83	916.72	-811.07	-882.13	455037.33	592350.37	3.00	
10149.32	88.66	182.24	9133.69	965.88	-860.31	-884.62	454988.09	592347.88	3.00	Build/Turn
10200.00	89.26	181.43	9134.61	1016.32	-910.96	-886.24	454937.44	592346.26	2.00	
10261.71	90.00	180.44	9135.00	1077.65	-972.66	-887.24	454875.74	592345.26	2.00	Hold
10300.00	90.00	180.44	9135.00	1115.66	-1010.95	-887.53	454837.45	592344.97	0.00	
10400.00	90.00	180.44	9135.00	1214.94	-1110.95	-888.29	454737.45	592344.21	0.00	
10500.00	90.00	180.44	9135.00	1314.22	-1210.94	-889.05	454637.46	592343.45	0.00	
10600.00	90.00	180.44	9135.00	1413.50	-1310.94	-889.81	454537.46	592342.69	0.00	
10700.00	90.00	180.44	9135.00	1512.78	-1410.94	-890.57	454437.46	592341.93	0.00	
10800.00	90.00	180.44	9135.00	1612.06	-1510.93	-891.33	454337.47	592341.17	0.00	
10900.00	90.00	180.44	9135.00	1711.35	-1610.93	-892.09	454237.47	592340.41	0.00	
11000.00	90.00	180.44	9135.00	1810.63	-1710.93	-892.85	454137.47	592339.65	0.00	
11100.00	90.00	180.44	9135.00	1909.91	-1810.93	-893.61	454037.47	592338.89	0.00	
11200.00	90.00	180.44	9135.00	2009.19	-1910.92	-894.37	453937.48	592338.13	0.00	
11300.00	90.00	180.44	9135.00	2108.47	-2010.92	-895.13	453837.48	592337.37	0.00	
11400.00	90.00	180.44	9135.00	2207.75	-2110.92	-895.89	453737.48	592336.61	0.00	
11500.00	90.00	180.44	9135.00	2307.03	-2210.91	-896.65	453637.49	592335.85	0.00	
11600.00	90.00	180.44	9135.00	2406.31	-2310.91	-897.41	453537.49	592335.09	0.00	
11700.00	90.00	180.44	9135.00	2505.59	-2410.91	-898.17	453437.49	592334.33	0.00	
11800.00	90.00	180.44	9135.00	2604.87	-2510.91	-898.93	453337.49	592333.57	0.00	
11900.00	90.00	180.44	9135.00	2704.16	-2610.90	-899.69	453237.50	592332.81	0.00	
12000.00	90.00	180.44	9135.00	2803.44	-2710.90	-900.44	453137.50	592332.06	0.00	
12100.00	90.00	180.44	9135.00	2902.72	-2810.90	-901.20	453037.50	592331.30	0.00	
12200.00	90.00	180.44	9135.00	3002.00	-2910.89	-901.96	452937.51	592330.54	0.00	
12300.00	90.00	180.44	9135.00	3101.28	-3010.89	-902.72	452837.51	592329.78	0.00	
12400.00	90.00	180.44	9135.00	3200.56	-3110.89	-903.48	452737.51	592329.02	0.00	
12500.00	90.00	180.44	9135.00	3299.84	-3210.89	-904.24	452637.51	592328.26	0.00	
12600.00	90.00	180.44	9135.00	3399.12	-3310.88	-905.00	452537.52	592327.50	0.00	
12700.00	90.00	180.44	9135.00	3498.40	-3410.88	-905.76	452437.52	592326.74	0.00	
12800.00	90.00	180.44	9135.00	3597.68	-3510.88	-906.52	452337.52	592325.98	0.00	
12900.00	90.00	180.44	9135.00	3696.97	-3610.87	-907.28	452237.53	592325.22	0.00	
13000.00	90.00	180.44	9135.00	3796.25	-3710.87	-908.04	452137.53	592324.46	0.00	
13100.00	90.00	180.44	9135.00	3895.53	-3810.87	-908.80	452037.53	592323.70	0.00	
13200.00	90.00	180.44	9135.00	3994.81	-3910.87	-909.56	451937.53	592322.94	0.00	
13300.00	90.00	180.44	9135.00	4094.09	-4010.86	-910.32	451837.54	592322.18	0.00	
13400.00	90.00	180.44	9135.00	4193.37	-4110.86	-911.08	451737.54	592321.42	0.00	
13500.00	90.00	180.44	9135.00	4292.65	-4210.86	-911.84	451637.54	592320.66	0.00	
13600.00	90.00	180.44	9135.00	4391.93	-4310.85	-912.60	451537.55	592319.90	0.00	
13700.00	90.00	180.44	9135.00	4491.21	-4410.85	-913.36	451437.55	592319.14	0.00	
13800.00	90.00	180.44	9135.00	4590.49	-4510.85	-914.11	451337.55	592318.39	0.00	
13900.00	90.00	180.44	9135.00	4689.78	-4610.85	-914.87	451237.55	592317.63	0.00	
14000.00	90.00	180.44	9135.00	4789.06	-4710.84	-915.63	451137.56	592316.87	0.00	
14100.00	90.00	180.44	9135.00	4888.34	-4810.84	-916.39	451037.56	592316.11	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
14200.00	90.00	180.44	9135.00	4987.62	-4910.84	-917.15	450937.56	592315.35	0.00	
14300.00	90.00	180.44	9135.00	5086.90	-5010.83	-917.91	450837.57	592314.59	0.00	
14400.00	90.00	180.44	9135.00	5186.18	-5110.83	-918.67	450737.57	592313.83	0.00	
14500.00	90.00	180.44	9135.00	5285.46	-5210.83	-919.43	450637.57	592313.07	0.00	
14600.00	90.00	180.44	9135.00	5384.74	-5310.82	-920.19	450537.58	592312.31	0.00	
14700.00	90.00	180.44	9135.00	5484.02	-5410.82	-920.95	450437.58	592311.55	0.00	
14800.00	90.00	180.44	9135.00	5583.30	-5510.82	-921.71	450337.58	592310.79	0.00	
14900.00	90.00	180.44	9135.00	5682.59	-5610.82	-922.47	450237.58	592310.03	0.00	
15000.00	90.00	180.44	9135.00	5781.87	-5710.81	-923.23	450137.59	592309.27	0.00	
15100.00	90.00	180.44	9135.00	5881.15	-5810.81	-923.99	450037.59	592308.51	0.00	
15200.00	90.00	180.44	9135.00	5980.43	-5910.81	-924.75	449937.59	592307.75	0.00	
15300.00	90.00	180.44	9135.00	6079.71	-6010.80	-925.51	449837.60	592306.99	0.00	
15400.00	90.00	180.44	9135.00	6178.99	-6110.80	-926.27	449737.60	592306.23	0.00	
15500.00	90.00	180.44	9135.00	6278.27	-6210.80	-927.02	449637.60	592305.48	0.00	
15600.00	90.00	180.44	9135.00	6377.55	-6310.80	-927.78	449537.60	592304.72	0.00	
15700.00	90.00	180.44	9135.00	6476.83	-6410.79	-928.54	449437.61	592303.96	0.00	
15800.00	90.00	180.44	9135.00	6576.11	-6510.79	-929.30	449337.61	592303.20	0.00	
15900.00	90.00	180.44	9135.00	6675.40	-6610.79	-930.06	449237.61	592302.44	0.00	
16000.00	90.00	180.44	9135.00	6774.68	-6710.78	-930.82	449137.62	592301.68	0.00	
16100.00	90.00	180.44	9135.00	6873.96	-6810.78	-931.58	449037.62	592300.92	0.00	
16200.00	90.00	180.44	9135.00	6973.24	-6910.78	-932.34	448937.62	592300.16	0.00	
16300.00	90.00	180.44	9135.00	7072.52	-7010.78	-933.10	448837.62	592299.40	0.00	
16400.00	90.00	180.44	9135.00	7171.80	-7110.77	-933.86	448737.63	592298.64	0.00	
16500.00	90.00	180.44	9135.00	7271.08	-7210.77	-934.62	448637.63	592297.88	0.00	
16576.53	90.00	180.44	9135.00	7347.06	-7287.30	-935.20	448561.10	592297.30	0.00	WODE SC1H PBHL