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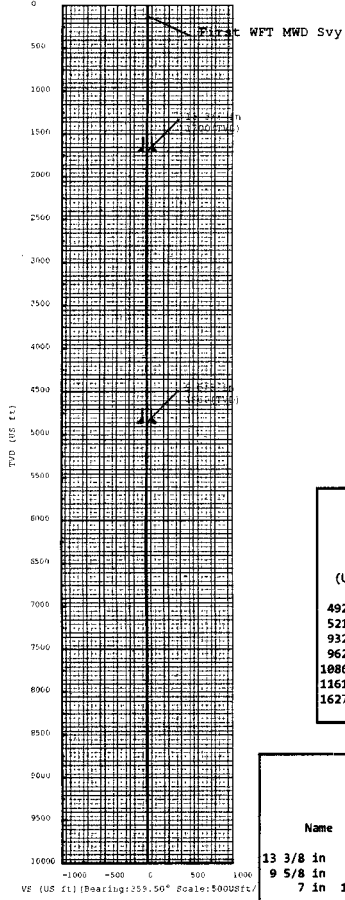
HOBBS OCD
SEP 10 2018
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Mewbourne Oil Company
Ibex 10 B3NC Fed Com 1H
Lea Co, NM
Plan P1:V1 Plan Vs Actual



KB: 3423.00
GL: 3396.00



Plan Data for Ibex 10 B3NC Fed Com 1H
Field: Mewbourne Oil Company (Mad 83 NMEZ)
Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)
Site: Pronghorn/Ibex Pad
Unit: USFeet TVD Reference:
Company Name: Mewbourne Oil Company
Position: Northing: 478107.11USft Latitude: 32.311375°
Easting: 810838.67USft Longitude: -103.460995°
North Reference: Grid Grid Convergence: 0.47°
Elevation Above VRD: 3397.00USft
Comment: Lea Co., NM
Slot: Ibex 10 B3NC Fed Com 1H
Position:
Offset is from Site centre
+N/-S: 0.30USft Northing: 478107.41USft Latitude: 32.311374°
+E/-W: 50.00USft Easting: 810838.67USft Longitude: -103.460833°
Elevation Above VRD: 3396.00USft
Well: Ibex 10 B3NC Fed Com 1H
Type: Main-Well
File Number: 13077189
Plan Folder: P1 Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 359.50°
+E/-W: -0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2017 47970(nT) 6.89° 60.13° 2018-03-25
Comment: Patterson 217

Plan Data for Ibex 10 B3NC Fed Com 1H

Dogleg Severity Unit: */100.00ft Position offsets from Slot centre

MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
0.00	0.00	0.00	-0.00	0.00	-0.00	478107.41	810838.67	0.00	0.00	
4920.00	0.00	0.00	4920.00	0.00	-0.00	478107.41	810838.67	0.00	0.00	Nudge
5219.50	3.00	90.00	5219.37	0.00	7.83	478107.41	810896.49	-0.07	1.00	Hold
9321.91	3.00	90.00	9316.17	0.00	222.17	478107.41	811110.84	-1.94	0.00	Drop
9621.42	0.00	0.00	9615.54	0.00	230.00	478107.41	811118.67	-2.01	1.00	Hold Vertical
10861.42	0.00	0.00	10855.54	0.00	230.00	478107.41	811118.67	-2.01	0.00	KOP
11615.52	90.49	359.50	11332.99	481.55	225.83	478588.96	811114.50	479.56	12.00	LP
16271.52	90.49	359.50	11293.00	5137.20	185.50	483244.61	811074.17	5135.39	0.00	PBHL

Plan Data for Ibex 10 B3NC Fed Com 1H

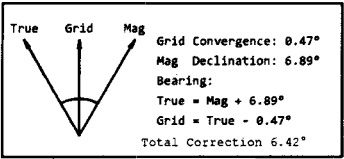
Casing Point Information:
Position offsets from Slot centre

Name	MD	TVD	+N/-S	+E/-W	Northing	Easting
	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
13 3/8 in	1700.00	1700.00	0.00	-0.00	478107.41	810838.67
9 5/8 in	4860.00	4860.00	0.00	-0.00	478107.41	810838.67
7 in	11575.00	11331.62	441.07	226.18	478548.48	811114.85

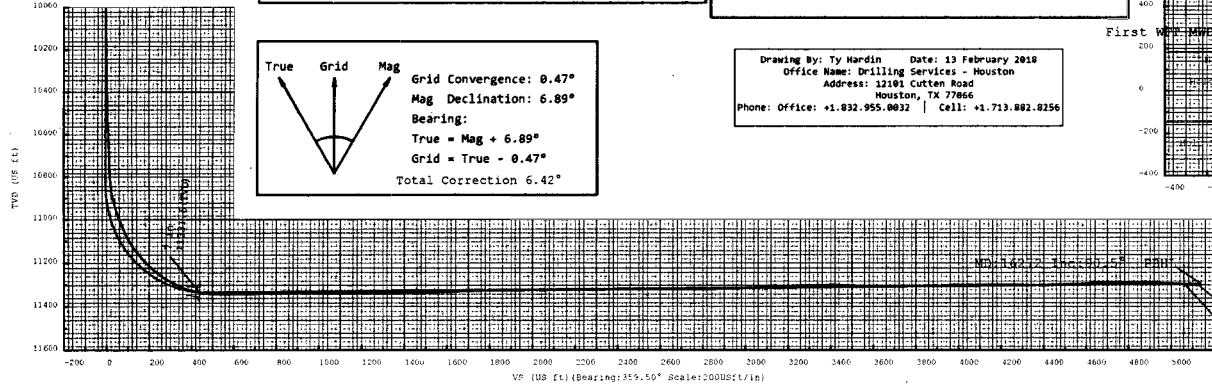
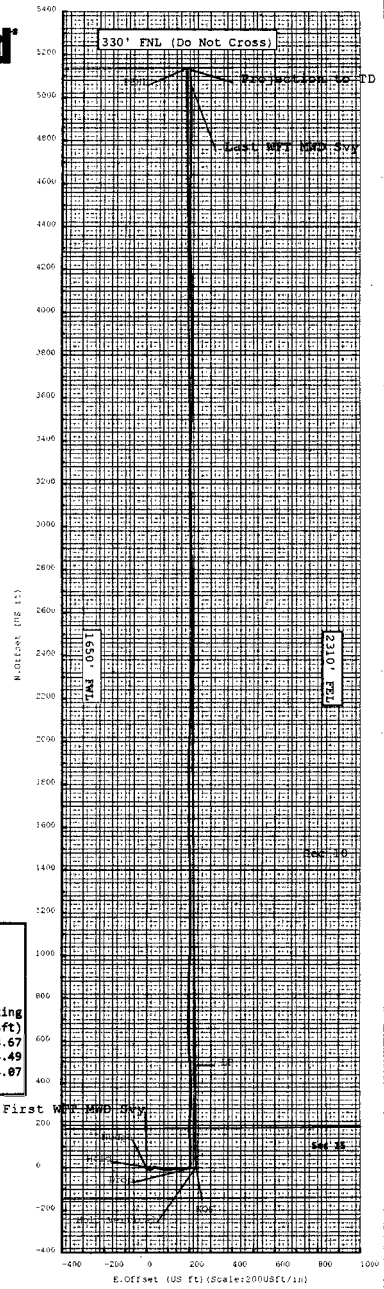
Plan Data for Ibex 10 B3NC Fed Com 1H

Target Set Information:
Name: Ibex 10 B3NC FC1H
Position offsets from Slot centre

Name	TVD	Elevation	+N/-S	+E/-W	Northing	Easting
	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
VP	10855.54	-7432.54	0.00	230.01	478107.41	811118.67
LP	11332.99	-7909.99	481.56	225.83	478588.97	811114.49
PBHL	11293.00	-7870.00	5137.35	185.40	483244.76	811074.07



Drawing By: Ty Hardin Date: 13 February 2018
Office Name: Drilling Services - Houston
Address: 12181 Cullen Road Houston, TX 77066
Phone: Office: +1.832.955.0032 | Cell: +1.713.882.8256





Ibex 10 B3NC Fed Com 1H

Field Name:	Map Units: US ft		Company Name: Mewbourne Oil Company	
Mewbourne Oil Company (Nad 83 NMEZ)	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Pronghorn/Ibex Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.47	
	Position:	Northing: 478107.11 US ft	Latitude: 32.311374536	
		Easting: 810838.67 US ft	Longitude: -103.460994853	
Elevation above MSL: 3397.00 US ft		Comment: Lea Co., NM		
Slot: Ibex 10 B3NC Fed Com 1H	Position (Relative to Site Centre)			
	+N/-S: 0.30 US ft	Northing: 478107.41 US ft	Latitude: 32.311374243	
	+E/-W: 50.00 US ft	Easting: 810888.67 US ft	Longitude: -103.460833014	
	Elevation above MSL: 3396.00 US ft			
Well: Ibex 10 B3NC Fed Com 1H	Type: Main well		UWI:	
	File Number: 13077189	Comment: Patterson 217		
	Closure Distance: 5133.83 US ft		Closure Azimuth: 2.23°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft	+E/-W: -0.00 US ft	Az: 359.50°	

Drill floor: Survey Name: Definitive Survey			
Rig Height (Well TVD Reference): 27.00us ft	Elevation above MSL: 3423.00us ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey				
Date: 13/Mar/2018	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:	
Magnetic Model:				
Model Name: bggm2017	Date: 25/Mar/2018	Field Strength: 47970.0nT	Declination: 6.89°	Dip: 60.13°
Tie Point:				
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: -0.00 US ft	North Offset: 0.00 US ft
				East Offset: -0.00 US ft

Survey Tool Ranges:			
Name	Start MD(usFt)	End MD(usFt)	Source Survey
MWD	0.00	1389.00	MWD 1
MWD	1389.00	4872.00	MWD 2
MWD	4872.00	5418.00	MWD 3
MWD	5418.00	10729.00	MWD 4

5D Survey Report

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	10729.00	11416.00	MWD 5
MWD	11416.00	11542.00	MWD 6
MWD	11542.00	16230.00	MWD 7

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	-0.00	0.00	0.00	-0.00	0.00	478107.41	810888.67	
129.00	0.55	51.05	129.00	0.39	0.39	0.48	0.43	478107.80	810889.15	First WFT MWD Svy
222.00	0.70	58.68	221.99	0.95	0.97	1.31	0.18	478108.37	810889.98	
312.00	0.85	54.38	311.98	1.62	1.64	2.33	0.18	478109.05	810890.99	
405.00	0.66	72.22	404.98	2.18	2.21	3.40	0.32	478109.61	810892.06	
496.00	0.69	69.92	495.97	2.51	2.55	4.41	0.04	478109.96	810893.08	
589.00	0.91	75.67	588.96	2.88	2.93	5.65	0.25	478110.34	810894.32	
680.00	1.11	71.85	679.95	3.32	3.38	7.19	0.23	478110.79	810895.86	
771.00	1.24	74.49	770.93	3.84	3.92	8.98	0.15	478111.33	810897.64	
869.00	0.97	81.06	868.91	4.24	4.33	10.82	0.30	478111.74	810899.48	
964.00	0.78	93.66	963.90	4.31	4.42	12.26	0.28	478111.82	810900.92	
1058.00	0.76	134.75	1057.89	3.82	3.94	13.34	0.58	478111.34	810902.01	
1152.00	1.12	157.89	1151.88	2.52	2.65	14.13	0.55	478110.05	810902.79	
1247.00	1.36	169.97	1246.86	0.55	0.68	14.67	0.37	478108.08	810903.34	
1342.00	0.78	204.85	1341.84	-1.15	-1.02	14.60	0.89	478106.39	810903.26	
1389.00	0.65	243.76	1388.84	-1.55	-1.43	14.22	1.05	478105.98	810902.89	
1532.00	1.38	236.37	1531.81	-2.85	-2.74	12.06	0.52	478104.67	810900.73	
1625.00	1.54	234.44	1624.78	-4.18	-4.09	10.11	0.18	478103.32	810898.78	
1720.00	0.59	195.25	1719.77	-5.38	-5.30	8.95	1.21	478102.11	810897.61	
1815.00	0.84	99.12	1814.76	-5.97	-5.89	9.51	1.13	478101.52	810898.17	
1913.00	1.00	112.48	1912.75	-6.42	-6.33	11.00	0.27	478101.08	810899.67	
2007.00	0.80	127.04	2006.74	-7.14	-7.04	12.29	0.32	478100.37	810900.95	
2102.00	0.56	129.27	2101.73	-7.84	-7.73	13.18	0.25	478099.68	810901.84	
2196.00	0.42	106.94	2195.73	-8.24	-8.12	13.86	0.25	478099.29	810902.53	
2291.00	0.29	73.13	2290.73	-8.28	-8.15	14.42	0.25	478099.26	810903.09	
2385.00	0.31	64.79	2384.72	-8.10	-7.97	14.88	0.05	478099.43	810903.55	
2480.00	0.35	45.02	2479.72	-7.79	-7.66	15.32	0.13	478099.75	810903.99	
2574.00	0.28	42.11	2573.72	-7.42	-7.29	15.68	0.08	478100.12	810904.34	
2669.00	0.16	40.12	2668.72	-7.15	-7.01	15.92	0.13	478100.40	810904.58	
2763.00	0.10	50.38	2762.72	-7.00	-6.86	16.06	0.07	478100.55	810904.73	
2858.00	0.21	45.40	2857.72	-6.83	-6.68	16.25	0.12	478100.72	810904.92	
2953.00	0.28	62.29	2952.72	-6.60	-6.45	16.58	0.11	478100.95	810905.25	
3047.00	0.44	63.62	3046.72	-6.34	-6.19	17.11	0.17	478101.22	810905.78	
3142.00	0.41	68.37	3141.71	-6.05	-5.90	17.75	0.05	478101.51	810906.42	
3237.00	0.35	103.35	3236.71	-6.00	-5.84	18.35	0.25	478101.57	810907.02	
3332.00	0.49	156.01	3331.71	-6.44	-6.28	18.80	0.41	478101.13	810907.46	
3427.00	0.49	130.52	3426.71	-7.08	-6.91	19.27	0.23	478100.49	810907.94	
3521.00	0.73	83.09	3520.70	-7.28	-7.10	20.17	0.57	478100.30	810908.84	
3616.00	1.11	50.72	3615.69	-6.64	-6.45	21.48	0.66	478100.96	810910.15	
3711.00	1.35	46.82	3710.67	-5.30	-5.10	23.01	0.27	478102.31	810911.68	
3806.00	0.41	76.73	3805.66	-4.47	-4.26	24.16	1.07	478103.15	810912.83	
3901.00	0.49	54.03	3900.65	-4.16	-3.94	24.82	0.20	478103.47	810913.49	
3995.00	0.77	54.28	3994.65	-3.56	-3.33	25.66	0.30	478104.07	810914.32	
4090.00	1.01	53.61	4089.64	-2.70	-2.47	26.85	0.25	478104.94	810915.52	
4184.00	1.07	49.55	4183.62	-1.65	-1.40	28.18	0.10	478106.00	810916.85	
4279.00	0.92	46.99	4278.61	-0.57	-0.31	29.42	0.16	478107.10	810918.08	
4374.00	0.95	45.60	4373.59	0.50	0.76	30.54	0.04	478108.17	810919.20	
4468.00	0.91	43.90	4467.58	1.57	1.85	31.61	0.05	478109.25	810920.28	
4563.00	0.76	38.88	4562.57	2.60	2.88	32.53	0.18	478110.29	810921.20	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N Offset (US ft)	E Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
4657.00	0.44	37.24	4656.57	3.36	3.65	33.14	0.34	478111.06	810921.81	
4752.00	0.31	56.39	4751.56	3.79	4.08	33.57	0.19	478111.49	810922.24	
4847.00	0.31	78.87	4846.56	3.98	4.28	34.04	0.13	478111.69	810922.71	
4872.00	0.41	73.67	4871.56	4.02	4.31	34.19	0.42	478111.72	810922.86	
4943.00	0.88	93.64	4942.56	4.05	4.35	34.98	0.72	478111.76	810923.65	
5038.00	0.73	104.33	5037.55	3.84	4.16	36.30	0.22	478111.56	810924.96	
5133.00	0.66	91.04	5132.54	3.67	4.00	37.43	0.18	478111.40	810926.10	
5228.00	1.80	100.65	5227.52	3.37	3.71	39.44	1.22	478111.12	810928.11	
5323.00	3.71	107.22	5322.40	2.14	2.52	43.85	2.03	478109.93	810932.51	
5418.00	4.01	105.57	5417.19	0.29	0.72	49.98	0.34	478108.13	810938.65	
5513.00	3.63	106.45	5511.98	-1.51	-1.02	56.06	0.40	478106.39	810944.73	
5608.00	3.59	104.99	5606.79	-3.18	-2.64	61.82	0.11	478104.77	810950.49	
5704.00	3.44	103.06	5702.61	-4.66	-4.07	67.53	0.20	478103.34	810956.20	
5798.00	3.23	106.11	5796.45	-6.08	-5.44	72.82	0.29	478101.97	810961.49	
5893.00	2.74	102.97	5891.32	-7.37	-6.69	77.61	0.54	478100.71	810966.27	
5987.00	2.38	100.17	5985.23	-8.26	-7.54	81.72	0.41	478099.87	810970.38	
6082.00	2.37	95.64	6080.14	-8.83	-8.08	85.61	0.20	478099.32	810974.28	
6177.00	2.28	95.10	6175.07	-9.23	-8.45	89.45	0.10	478098.96	810978.12	
6272.00	2.10	93.73	6270.00	-9.54	-8.73	93.07	0.20	478098.68	810981.74	
6366.00	2.13	90.17	6363.93	-9.69	-8.84	96.53	0.14	478098.57	810985.20	
6461.00	1.98	88.84	6458.87	-9.69	-8.82	99.94	0.17	478098.59	810988.61	
6555.00	1.79	86.53	6552.82	-9.59	-8.69	103.03	0.22	478098.71	810991.70	
6650.00	1.75	85.06	6647.78	-9.40	-8.48	105.96	0.06	478098.93	810994.62	
6745.00	1.63	82.13	6742.73	-9.12	-8.17	108.74	0.16	478099.24	810997.41	
6840.00	1.73	83.39	6837.69	-8.79	-7.82	111.50	0.11	478099.59	811000.17	
6935.00	1.81	84.56	6932.65	-8.51	-7.51	114.42	0.09	478099.90	811003.09	
7030.00	1.75	77.09	7027.60	-8.07	-7.05	117.33	0.25	478100.36	811006.00	
7124.00	1.75	80.17	7121.56	-7.53	-6.48	120.14	0.10	478100.93	811008.81	
7220.00	1.82	82.46	7217.51	-7.10	-6.03	123.10	0.10	478101.38	811011.76	
7315.00	1.94	83.86	7312.46	-6.76	-5.66	126.19	0.14	478101.75	811014.86	
7410.00	2.03	85.19	7407.40	-6.48	-5.35	129.47	0.11	478102.06	811018.13	
7505.00	1.92	90.12	7502.35	-6.37	-5.21	132.73	0.21	478102.20	811021.40	
7600.00	1.97	89.53	7597.29	-6.38	-5.20	135.96	0.06	478102.21	811024.63	
7695.00	2.24	93.89	7692.23	-6.53	-5.31	139.44	0.33	478102.10	811028.11	
7790.00	2.13	93.12	7787.16	-6.78	-5.53	143.06	0.12	478101.88	811031.73	
7885.00	1.88	92.15	7882.10	-6.96	-5.69	146.38	0.27	478101.72	811035.05	
7980.00	1.69	98.00	7977.05	-7.24	-5.94	149.32	0.28	478101.47	811037.99	
8075.00	1.33	93.98	8072.02	-7.54	-6.21	151.81	0.39	478101.20	811040.48	
8170.00	1.27	91.97	8167.00	-7.67	-6.33	153.96	0.08	478101.08	811042.63	
8265.00	1.19	84.51	8261.98	-7.63	-6.27	156.00	0.19	478101.14	811044.66	
8360.00	1.09	76.39	8356.96	-7.34	-5.96	157.86	0.20	478101.45	811046.52	
8455.00	0.90	71.23	8451.94	-6.90	-5.51	159.44	0.22	478101.90	811048.11	
8549.00	0.60	44.53	8545.93	-6.32	-4.92	160.49	0.48	478102.49	811049.15	
8644.00	1.44	72.41	8640.92	-5.62	-4.20	161.97	1.00	478103.20	811050.64	
8739.00	1.54	75.18	8735.89	-4.95	-3.52	164.34	0.13	478103.89	811053.01	
8834.00	1.55	87.60	8830.85	-4.59	-3.14	166.86	0.35	478104.27	811055.53	
8928.00	1.68	96.93	8924.82	-4.73	-3.25	169.50	0.31	478104.16	811058.17	
9023.00	1.70	104.58	9019.77	-5.27	-3.77	172.25	0.24	478103.64	811060.91	
9119.00	2.49	91.46	9115.71	-5.72	-4.18	175.71	0.96	478103.23	811064.38	
9214.00	2.55	71.83	9210.62	-5.15	-3.58	179.78	0.91	478103.83	811068.45	
9309.00	1.53	66.07	9305.56	-4.00	-2.40	182.95	1.09	478105.01	811071.61	
9404.00	1.59	87.54	9400.52	-3.45	-1.83	185.42	0.61	478105.58	811074.09	
9499.00	1.16	95.57	9495.50	-3.51	-1.87	187.70	0.49	478105.54	811076.36	
9594.00	0.66	97.05	9590.48	-3.68	-2.03	189.20	0.53	478105.38	811077.86	
9688.00	0.49	101.75	9684.48	-3.84	-2.18	190.13	0.19	478105.23	811078.80	
9783.00	0.45	81.57	9779.48	-3.87	-2.21	190.90	0.18	478105.20	811079.56	
9878.00	0.16	55.10	9874.47	-3.75	-2.08	191.37	0.33	478105.33	811080.04	
9973.00	0.38	48.71	9969.47	-3.46	-1.79	191.72	0.23	478105.62	811080.39	
10067.00	0.99	69.05	10063.47	-2.98	-1.30	192.71	0.69	478106.11	811081.38	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
10162.00	1.51	57.71	10158.44	-2.03	-0.33	194.54	0.60	478107.07	811083.20	
10256.00	1.97	54.86	10252.40	-0.46	1.26	196.90	0.50	478108.67	811085.57	
10351.00	1.77	34.05	10347.35	1.68	3.41	199.06	0.74	478110.82	811087.73	
10445.00	1.95	31.69	10441.30	4.23	5.98	200.71	0.21	478113.39	811089.38	
10540.00	1.58	35.15	10536.26	6.66	8.42	202.32	0.41	478115.83	811090.98	
10634.00	2.08	18.67	10630.21	9.32	11.10	203.61	0.77	478118.51	811092.28	
10729.00	2.67	5.13	10725.13	13.15	14.94	204.36	0.85	478122.34	811093.03	
10761.00	2.60	7.30	10757.09	14.61	16.40	204.52	0.38	478123.81	811093.18	
10852.00	5.93	1.71	10847.83	21.36	23.15	204.92	3.68	478130.55	811093.59	
10884.00	10.20	357.21	10879.51	25.84	27.63	204.83	13.48	478135.04	811093.50	
10915.00	13.66	357.95	10909.83	32.25	34.03	204.57	11.17	478141.44	811093.23	
10947.00	16.09	357.74	10940.76	40.46	42.24	204.26	7.60	478149.65	811092.92	
10978.00	18.65	358.60	10970.34	49.71	51.49	203.97	8.30	478158.90	811092.63	
11010.00	21.12	2.26	11000.43	60.58	62.37	204.07	8.64	478169.78	811092.74	
11042.00	23.61	1.06	11030.02	72.75	74.54	204.41	7.91	478181.95	811093.08	
11073.00	25.89	359.59	11058.17	85.73	87.51	204.48	7.62	478194.92	811093.15	
11105.00	29.65	358.22	11086.48	100.63	102.42	204.19	11.92	478209.83	811092.85	
11136.00	33.22	356.00	11112.93	116.78	118.56	203.35	12.10	478225.97	811092.02	
11168.00	37.47	353.74	11139.03	135.22	136.99	201.68	13.89	478244.40	811090.35	
11200.00	40.21	357.09	11163.95	155.23	156.98	200.09	10.79	478264.39	811088.76	
11231.00	43.75	358.99	11186.99	175.96	177.70	199.40	12.13	478285.11	811088.06	
11263.00	47.73	1.77	11209.32	198.86	200.61	199.57	13.90	478308.02	811088.24	
11295.00	50.19	4.19	11230.34	222.95	224.71	200.83	9.57	478332.12	811089.50	
11326.00	53.84	4.74	11249.41	247.28	249.06	202.74	11.86	478356.47	811091.40	
11358.00	57.67	4.08	11267.42	273.63	275.43	204.77	12.09	478382.84	811093.43	
11390.00	61.07	3.19	11283.72	301.09	302.91	206.51	10.89	478410.32	811095.18	
11416.00	64.54	2.43	11295.60	324.18	326.00	207.64	13.60	478433.41	811096.31	
11510.00	75.00	356.53	11328.08	412.21	414.03	206.69	12.58	478521.44	811095.36	
11542.00	81.23	355.76	11334.67	443.45	445.26	204.58	19.61	478552.66	811093.25	
11638.00	90.28	356.35	11341.77	538.92	540.67	198.00	9.45	478648.07	811086.67	
11733.00	90.42	358.29	11341.19	633.84	635.56	193.56	2.05	478742.96	811082.23	
11828.00	91.89	0.96	11339.27	728.81	730.52	192.94	3.21	478837.93	811081.61	
11923.00	91.26	0.85	11336.66	823.75	825.47	194.44	0.67	478932.88	811083.11	
12018.00	90.49	2.00	11335.21	918.68	920.43	196.80	1.46	479027.84	811085.47	
12113.00	89.30	2.58	11335.39	1013.56	1015.35	200.60	1.39	479122.76	811089.27	
12208.00	90.07	1.37	11335.91	1108.47	1110.29	203.87	1.51	479217.70	811092.54	
12304.00	90.70	359.23	11335.26	1204.45	1206.28	204.38	2.32	479313.69	811093.04	
12399.00	89.58	359.33	11335.03	1299.45	1301.27	203.18	1.18	479408.68	811091.85	
12494.00	91.40	358.61	11334.22	1394.44	1396.25	201.47	2.06	479503.66	811090.14	
12589.00	89.51	358.50	11333.46	1489.42	1491.21	199.08	1.99	479598.62	811087.75	
12684.00	93.01	359.85	11331.37	1584.38	1586.16	197.71	3.95	479693.57	811086.38	
12779.00	91.82	359.07	11327.37	1679.29	1681.07	196.82	1.50	479788.48	811085.48	
12874.00	90.98	359.15	11325.05	1774.26	1776.03	195.34	0.89	479883.44	811084.01	
12969.00	89.86	359.95	11324.35	1869.25	1871.02	194.59	1.45	479978.43	811083.26	
13064.00	91.33	2.07	11323.37	1964.21	1966.00	196.27	2.72	480073.41	811084.94	
13159.00	90.56	2.37	11321.80	2059.09	2060.91	199.95	0.87	480168.32	811088.62	
13254.00	90.14	1.72	11321.22	2153.99	2155.85	203.34	0.81	480263.26	811092.01	
13349.00	89.58	0.69	11321.45	2248.95	2250.83	205.34	1.23	480358.23	811094.00	
13444.00	91.33	1.57	11320.70	2343.90	2345.80	207.21	2.06	480453.21	811095.88	
13539.00	90.63	1.78	11319.07	2438.82	2440.74	209.99	0.77	480548.15	811098.65	
13634.00	89.65	1.52	11318.84	2533.75	2535.70	212.72	1.07	480643.11	811101.39	
13730.00	90.84	358.87	11318.43	2629.73	2631.69	213.05	3.03	480739.10	811101.71	
13825.00	89.37	358.48	11318.26	2724.72	2726.66	210.85	1.60	480834.07	811099.52	
13919.00	90.91	357.60	11318.03	2818.68	2820.60	207.64	1.89	480928.01	811096.30	
14014.00	91.96	357.73	11315.65	2913.61	2915.49	203.77	1.11	481022.90	811092.43	
14109.00	92.73	359.19	11311.76	3008.51	3010.38	201.22	1.74	481117.79	811089.88	
14204.00	93.15	359.12	11306.89	3103.38	3105.24	199.82	0.45	481212.65	811088.48	
14299.00	91.26	359.99	11303.23	3198.30	3200.16	199.08	2.19	481307.57	811087.75	
14395.00	90.84	0.64	11301.47	3294.28	3296.14	199.61	0.81	481403.55	811088.27	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
14489.00	90.49	2.30	11300.38	3388.21	3390.10	202.02	1.80	481497.51	811090.69	
14584.00	88.81	2.06	11300.96	3483.10	3485.03	205.63	1.79	481592.44	811094.30	
14679.00	87.90	2.26	11303.69	3577.96	3579.92	209.21	0.98	481687.33	811097.88	
14775.00	89.37	0.16	11305.98	3673.88	3675.87	211.24	2.67	481783.27	811099.90	
14870.00	91.33	359.26	11305.40	3768.87	3770.86	210.76	2.27	481878.27	811099.42	
14965.00	92.03	359.59	11302.61	3863.83	3865.81	209.80	0.81	481973.22	811098.47	
15061.00	90.63	359.17	11300.38	3959.80	3961.78	208.76	1.52	482069.19	811097.43	
15156.00	90.84	359.60	11299.16	4054.80	4056.76	207.75	0.50	482164.17	811096.41	
15251.00	90.56	359.13	11298.00	4149.79	4151.75	206.69	0.58	482259.16	811095.36	
15346.00	88.18	357.63	11299.05	4244.75	4246.70	204.01	2.96	482354.11	811092.67	
15441.00	89.65	358.23	11300.85	4339.70	4341.61	200.58	1.67	482449.02	811089.24	
15537.00	92.86	1.22	11298.74	4435.65	4437.57	200.11	4.57	482544.98	811088.78	
15632.00	91.89	0.20	11294.81	4530.55	4532.48	201.29	1.48	482639.88	811089.96	
15727.00	92.10	1.21	11291.50	4625.47	4627.41	202.46	1.09	482734.82	811091.13	
15822.00	91.54	0.79	11288.48	4720.39	4722.35	204.12	0.74	482829.76	811092.78	
15917.00	89.16	0.83	11287.90	4815.35	4817.33	205.46	2.51	482924.74	811094.13	
16012.00	87.97	0.50	11290.28	4910.30	4912.29	206.56	1.30	483019.70	811095.23	
16108.00	87.27	357.78	11294.27	5006.21	5008.19	205.12	2.92	483115.60	811093.79	
16164.00	87.13	357.55	11297.01	5062.11	5064.07	202.84	0.48	483171.48	811091.51	Last WFT MWD Svy
16230.00	87.13	357.55	11300.31	5127.99	5129.93	200.03	0.00	483237.34	811088.69	Projection to TD



Weatherford

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Mewbourne Oil Company
PO Box 5270
Hobbs, NM 88241

Date: April 26, 2018

Attention: Kyle Freidenbloom

Re: Mewbourne Oil Company
Well: Ibex 10 B3NC Fed Com 1H
Lea County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc., a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Jeff Johnson MWD Supervisor	1H	129' MD 16,164' MD	3/30/2018 4/22/2018	Measurement While Drilling

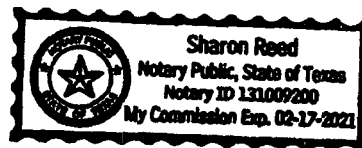
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jeffery Johnson
MWD Ops Coordinator

On this, the 26th day of April, 2018, before me a notary public, the undersigned officer, personally appeared Jeffery Johnson, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public





5D Survey Report

Mewbourne Oil Company

Field Name: *Mewbourne Oil Company (Nad 83 NMEZ)*
Site Name: *Pronghorn/Ibex Pad*
Well Name: *Ibex 10 B3NC Fed Com 1H*
File number: *13077189*
Survey: *Definitive survey*

23 April 2018





Ibex 10 B3NC Fed Com 1H

Field Name: Mewbourne Oil Company (Nad 83 NNEZ)	Map Units: US ft	Company Name: Mewbourne Oil Company	
	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)		
Site: Pronghorn/Ibex Pad	Comment:		
	Units: US ft	North Reference: Grid	Convergence Angle: 0.47
	Elevation above MSL: 3397.00 US ft		
Slot: Ibex 10 B3NC Fed Com 1H	Comment: Lea Co., NM		
	Elevation above MSL: 3396.00 US ft		
	Comment:		
Well: Ibex 10 B3NC Fed Com 1H	Type: Main well	UWI:	
	File Number: 13077189	Comment: Patterson 217	
	Closure Distance: 5133.83 US ft	Closure Azimuth: 2.23°	
	Vertical Section: Position of Origin (Relative to Slot centre)		
	+N/-S: 0.00 US ft	+E/-W: -0.00 US ft	Az: 359.50°

Drill floor: Survey Name: Definitive Survey
 Rig Height (Well TVD Reference): 27.00us ft Elevation above MSL: 3423.00us ft Inclination: 0.00° Azimuth: 0.00°

Survey Name: Definitive Survey

Date: 13/Mar/2018 Survey Tool: See Survey Tool Ranges below. Comment: Company:

Magnetic Model:

Model Name: bggm2017 Date: 25/Mar/2018 Field Strength: 47970.0nT Declination: 6.89° Dip: 60.13°

Tie Point:

MD: 0.00 US ft Inclination: 0.00° Azimuth: 0.00° TVD: -0.00 US ft North Offset: 0.00 US ft East Offset: -0.00 US ft

Survey Tool Ranges:

Name	Start MD(usft)	End MD(usft)	Source Survey
MWD 1	0.00	1389.00	MWD 1
MWD 2	1389.00	4872.00	MWD 2
MWD 3	4872.00	5418.00	MWD 3
MWD 4	5418.00	10729.00	MWD 4

SD Survey Report

Survey Tool Ranges:

Name	Start MD(usft)	End MD(usft)	Source Survey
MWD 5	10729.00	11416.00	MWD 5
MWD 6	11416.00	11542.00	MWD 6
MWD 7	11542.00	16230.00	MWD 7

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)

MD (US FT)	SLR (%)	SL (FT)	TD (US FT)	VS (US FT)	R.O.Slope (US FT)	R.D.Slope (US FT)	DLS (US FT)	Depth (US FT)	Logging (US FT)	Comment
0.00	0.00	0.00	-0.00	0.00	0.00	-0.00	0.00	478107.41	810888.67	
129.00	0.55	51.05	129.00	0.39	0.39	0.48	0.43	478107.80	810889.15	First WFT MWD Svy
222.00	0.70	58.68	221.99	0.95	0.97	1.31	0.18	478108.37	810889.98	
312.00	0.85	54.38	311.98	1.62	1.64	2.33	0.18	478109.05	810890.99	
405.00	0.66	72.22	404.98	2.18	2.21	3.40	0.32	478109.61	810892.06	
496.00	0.69	69.92	495.97	2.51	2.55	4.41	0.04	478109.96	810893.08	
589.00	0.91	75.67	588.96	2.88	2.93	5.65	0.25	478110.34	810894.32	
680.00	1.11	71.85	679.95	3.32	3.38	7.19	0.23	478110.79	810895.86	
771.00	1.24	74.49	770.93	3.84	3.92	8.98	0.15	478111.33	810897.64	
869.00	0.97	81.06	868.91	4.24	4.33	10.82	0.30	478111.74	810899.48	
964.00	0.78	93.66	963.90	4.31	4.42	12.26	0.28	478111.82	810900.92	
1058.00	0.76	134.75	1057.89	3.82	3.94	13.34	0.58	478111.34	810902.01	
1152.00	1.12	157.89	1151.88	2.52	2.65	14.13	0.55	478110.05	810902.79	
1247.00	1.36	169.97	1246.86	0.55	0.68	14.67	0.37	478108.08	810903.34	
1342.00	0.78	204.85	1341.84	-1.15	-1.02	14.60	0.89	478106.39	810903.26	
1389.00	0.65	243.76	1388.84	-1.55	-1.43	14.22	1.05	478105.98	810902.89	
1532.00	1.38	236.37	1531.81	-2.85	-2.74	12.06	0.52	478104.67	810900.73	
1625.00	1.54	234.44	1624.78	-4.18	-4.09	10.11	0.18	478103.32	810898.78	
1720.00	0.59	195.25	1719.77	-5.38	-5.30	8.95	1.21	478102.11	810897.61	
1815.00	0.84	99.12	1814.76	-5.97	-5.89	9.51	1.13	478101.52	810898.17	
1913.00	1.00	112.48	1912.75	-6.42	-6.33	11.00	0.27	478101.08	810899.67	
2007.00	0.80	127.04	2006.74	-7.14	-7.04	12.29	0.32	478100.37	810900.95	
2102.00	0.56	129.27	2101.73	-7.84	-7.73	13.18	0.25	478099.68	810901.84	
2196.00	0.42	106.94	2195.73	-8.24	-8.12	13.86	0.25	478099.29	810902.53	
2291.00	0.29	73.13	2290.73	-8.28	-8.15	14.42	0.25	478099.26	810903.09	
2385.00	0.31	64.79	2384.72	-8.10	-7.97	14.88	0.05	478099.43	810903.55	
2480.00	0.35	45.02	2479.72	-7.79	-7.66	15.32	0.13	478099.75	810903.99	
2574.00	0.28	42.11	2573.72	-7.42	-7.29	15.68	0.08	478100.12	810904.34	
2669.00	0.16	40.12	2668.72	-7.15	-7.01	15.92	0.13	478100.40	810904.58	
2763.00	0.10	50.38	2762.72	-7.00	-6.86	16.06	0.07	478100.55	810904.73	
2858.00	0.21	45.40	2857.72	-6.83	-6.68	16.25	0.12	478100.72	810904.92	
2953.00	0.28	62.29	2952.72	-6.60	-6.45	16.58	0.11	478100.95	810905.25	
3047.00	0.44	63.62	3046.72	-6.34	-6.19	17.11	0.17	478101.22	810905.78	
3142.00	0.41	68.37	3141.71	-6.05	-5.90	17.75	0.05	478101.51	810906.42	
3237.00	0.35	103.35	3236.71	-6.00	-5.84	18.35	0.25	478101.57	810907.02	
3332.00	0.49	156.01	3331.71	-6.44	-6.28	18.80	0.41	478101.13	810907.46	
3427.00	0.49	130.52	3426.71	-7.08	-6.91	19.27	0.23	478100.49	810907.94	
3521.00	0.73	83.09	3520.70	-7.28	-7.10	20.17	0.57	478100.30	810908.84	
3616.00	1.11	50.72	3615.69	-6.64	-6.45	21.48	0.66	478100.96	810910.15	
3711.00	1.35	46.82	3710.67	-5.30	-5.10	23.01	0.27	478102.31	810911.68	
3806.00	0.41	76.73	3805.66	-4.47	-4.26	24.16	1.07	478103.15	810912.83	
3901.00	0.49	54.03	3900.65	-4.16	-3.94	24.82	0.20	478103.47	810913.49	
3995.00	0.77	54.28	3994.65	-3.56	-3.33	25.66	0.30	478104.07	810914.32	
4090.00	1.01	53.61	4089.64	-2.70	-2.47	26.85	0.25	478104.94	810915.52	
4184.00	1.07	49.55	4183.62	-1.65	-1.40	28.18	0.10	478106.00	810916.85	
4279.00	0.92	46.99	4278.61	-0.57	-0.31	29.42	0.16	478107.10	810918.08	
4374.00	0.95	45.60	4373.59	0.50	0.76	30.54	0.04	478108.17	810919.20	
4468.00	0.91	43.90	4467.58	1.57	1.85	31.61	0.05	478109.25	810920.28	
4563.00	0.76	38.88	4562.57	2.60	2.88	32.53	0.18	478110.29	810921.20	

SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
True N-S (US F)	True E-W (US F)	True Depth (US F)	True N-S (US F)	True E-W (US F)	True Depth (US F)	True N-S (US F)	True E-W (US F)	True Depth (US F)	True N-S (US F)	True E-W (US F)
4657.00	0.44	37.24	4656.57	3.36	3.65	33.14	0.34	478111.06	810921.81	
4752.00	0.31	56.39	4751.56	3.79	4.08	33.57	0.19	478111.49	810922.24	
4847.00	0.31	78.87	4846.56	3.98	4.28	34.04	0.13	478111.69	810922.71	
4872.00	0.41	73.67	4871.56	4.02	4.31	34.19	0.42	478111.72	810922.86	
4943.00	0.88	93.64	4942.56	4.05	4.35	34.98	0.72	478111.76	810923.65	
5038.00	0.73	104.33	5037.55	3.84	4.16	36.30	0.22	478111.56	810924.96	
5133.00	0.66	91.04	5132.54	3.67	4.00	37.43	0.18	478111.40	810926.10	
5228.00	1.80	100.65	5227.52	3.37	3.71	39.44	1.22	478111.12	810928.11	
5323.00	3.71	107.22	5322.40	2.14	2.52	43.85	2.03	478109.93	810932.51	
5418.00	4.01	105.57	5417.19	0.29	0.72	49.98	0.34	478108.13	810938.65	
5513.00	3.63	106.45	5511.98	-1.51	-1.02	56.06	0.40	478106.39	810944.73	
5608.00	3.59	104.99	5606.79	-3.18	-2.64	61.82	0.11	478104.77	810950.49	
5704.00	3.44	103.06	5702.61	-4.66	-4.07	67.53	0.20	478103.34	810956.20	
5798.00	3.23	106.11	5796.45	-6.08	-5.44	72.82	0.29	478101.97	810961.49	
5893.00	2.74	102.97	5891.32	-7.37	-6.69	77.61	0.54	478100.71	810966.27	
5987.00	2.38	100.17	5985.23	-8.26	-7.54	81.72	0.41	478099.87	810970.38	
6082.00	2.37	95.64	6080.14	-8.83	-8.08	85.61	0.20	478099.32	810974.28	
6177.00	2.28	95.10	6175.07	-9.23	-8.45	89.45	0.10	478098.96	810978.12	
6272.00	2.10	93.73	6270.00	-9.54	-8.73	93.07	0.20	478098.68	810981.74	
6366.00	2.13	90.17	6363.93	-9.69	-8.84	96.53	0.14	478098.57	810985.20	
6461.00	1.98	88.84	6458.87	-9.69	-8.82	99.94	0.17	478098.59	810988.61	
6555.00	1.79	86.53	6552.82	-9.59	-8.69	103.03	0.22	478098.71	810991.70	
6650.00	1.75	85.06	6647.78	-9.40	-8.48	105.96	0.06	478098.93	810994.62	
6745.00	1.63	82.13	6742.73	-9.12	-8.17	108.74	0.16	478099.24	810997.41	
6840.00	1.73	83.39	6837.69	-8.79	-7.82	111.50	0.11	478099.59	811000.17	
6935.00	1.81	84.56	6932.65	-8.51	-7.51	114.42	0.09	478099.90	811003.09	
7030.00	1.75	77.09	7027.60	-8.07	-7.05	117.33	0.25	478100.36	811006.00	
7124.00	1.75	80.17	7121.56	-7.53	-6.48	120.14	0.10	478100.93	811008.81	
7220.00	1.82	82.46	7217.51	-7.10	-6.03	123.10	0.10	478101.38	811011.76	
7315.00	1.94	83.86	7312.46	-6.76	-5.66	126.19	0.14	478101.75	811014.86	
7410.00	2.03	85.19	7407.40	-6.48	-5.35	129.47	0.11	478102.06	811018.13	
7505.00	1.92	90.12	7502.35	-6.37	-5.21	132.73	0.21	478102.20	811021.40	
7600.00	1.97	89.53	7597.29	-6.38	-5.20	135.96	0.06	478102.21	811024.63	
7695.00	2.24	93.89	7692.23	-6.53	-5.31	139.44	0.33	478102.10	811028.11	
7790.00	2.13	93.12	7787.16	-6.78	-5.53	143.06	0.12	478101.88	811031.73	
7885.00	1.88	92.15	7882.10	-6.96	-5.69	146.38	0.27	478101.72	811035.05	
7980.00	1.69	98.00	7977.05	-7.24	-5.94	149.32	0.28	478101.47	811037.99	
8075.00	1.33	93.98	8072.02	-7.54	-6.21	151.81	0.39	478101.20	811040.48	
8170.00	1.27	91.97	8167.00	-7.67	-6.33	153.96	0.08	478101.08	811042.63	
8265.00	1.19	84.51	8261.98	-7.63	-6.27	156.00	0.19	478101.14	811044.66	
8360.00	1.09	76.39	8356.96	-7.34	-5.96	157.86	0.20	478101.45	811046.52	
8455.00	0.90	71.23	8451.94	-6.90	-5.51	159.44	0.22	478101.90	811048.11	
8549.00	0.60	44.53	8545.93	-6.32	-4.92	160.49	0.48	478102.49	811049.15	
8644.00	1.44	72.41	8640.92	-5.62	-4.20	161.97	1.00	478103.20	811050.64	
8739.00	1.54	75.18	8735.89	-4.95	-3.52	164.34	0.13	478103.89	811053.01	
8834.00	1.55	87.60	8830.85	-4.59	-3.14	166.86	0.35	478104.27	811055.53	
8928.00	1.68	96.93	8924.82	-4.73	-3.25	169.50	0.31	478104.16	811058.17	
9023.00	1.70	104.58	9019.77	-5.27	-3.77	172.25	0.24	478103.64	811060.91	
9119.00	2.49	91.46	9115.71	-5.72	-4.18	175.71	0.96	478103.23	811064.38	
9214.00	2.55	71.83	9210.62	-5.15	-3.58	179.78	0.91	478103.83	811068.45	
9309.00	1.53	66.07	9305.56	-4.00	-2.40	182.95	1.09	478105.01	811071.61	
9404.00	1.59	87.54	9400.52	-3.45	-1.83	185.42	0.61	478105.58	811074.09	
9499.00	1.16	95.57	9495.50	-3.51	-1.87	187.70	0.49	478105.54	811076.36	
9594.00	0.66	97.05	9590.48	-3.68	-2.03	189.20	0.53	478105.38	811077.86	
9688.00	0.49	101.75	9684.48	-3.84	-2.18	190.13	0.19	478105.23	811078.80	
9783.00	0.45	81.57	9779.48	-3.87	-2.21	190.90	0.18	478105.20	811079.56	
9878.00	0.16	55.10	9874.47	-3.75	-2.08	191.37	0.33	478105.33	811080.04	
9973.00	0.38	48.71	9969.47	-3.46	-1.79	191.72	0.23	478105.62	811080.39	
10067.00	0.99	69.05	10063.47	-2.98	-1.30	192.71	0.69	478106.11	811081.38	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)											
DB (US R)	Inc (°)	AP (°)	TVD (US R)	NS (US R)	Graded (US R)	Graded (US R)	DB (1100US R)	North (US R)	Graded (US R)	Comment	
10162.00	1.51	57.71	10158.44	-2.03	-0.33	194.54	0.60	478107.07	811083.20		
10256.00	1.97	54.86	10252.40	-0.46	1.26	196.90	0.50	478108.67	811085.57		
10351.00	1.77	34.05	10347.35	1.68	3.41	199.06	0.74	478110.82	811087.73		
10445.00	1.95	31.69	10441.30	4.23	5.98	200.71	0.21	478113.39	811089.38		
10540.00	1.58	35.15	10536.26	6.66	8.42	202.32	0.41	478115.83	811090.98		
10634.00	2.08	18.67	10630.21	9.32	11.10	203.61	0.77	478118.51	811092.28		
10729.00	2.67	5.13	10725.13	13.15	14.94	204.36	0.85	478122.34	811093.03		
10761.00	2.60	7.30	10757.09	14.61	16.40	204.52	0.38	478123.81	811093.18		
10852.00	5.93	1.71	10847.83	21.36	23.15	204.92	3.68	478130.55	811093.59		
10884.00	10.20	357.21	10879.51	25.84	27.63	204.83	13.48	478135.04	811093.50		
10915.00	13.66	357.95	10909.83	32.25	34.03	204.57	11.17	478141.44	811093.23		
10947.00	16.09	357.74	10940.76	40.46	42.24	204.26	7.60	478149.65	811092.92		
10978.00	18.65	358.60	10970.34	49.71	51.49	203.97	8.30	478158.90	811092.63		
11010.00	21.12	2.26	11000.43	60.58	62.37	204.07	8.64	478169.78	811092.74		
11042.00	23.61	1.06	11030.02	72.75	74.54	204.41	7.91	478181.95	811093.08		
11073.00	25.89	359.59	11058.17	85.73	87.51	204.48	7.62	478194.92	811093.15		
11105.00	29.65	358.22	11086.48	100.63	102.42	204.19	11.92	478209.83	811092.85		
11136.00	33.22	356.00	11112.93	116.78	118.56	203.35	12.10	478225.97	811092.02		
11168.00	37.47	353.74	11139.03	135.22	136.99	201.68	13.89	478244.40	811090.35		
11200.00	40.21	357.09	11163.95	155.23	156.98	200.09	10.79	478264.39	811088.76		
11231.00	43.75	358.99	11186.99	175.96	177.70	199.40	12.13	478285.11	811088.06		
11263.00	47.73	1.77	11209.32	198.86	200.61	199.57	13.90	478308.02	811088.24		
11295.00	50.19	4.19	11230.34	222.95	224.71	200.83	9.57	478332.12	811089.50		
11326.00	53.84	4.74	11249.41	247.28	249.06	202.74	11.86	478356.47	811091.40		
11358.00	57.67	4.08	11267.42	273.63	275.43	204.77	12.09	478382.84	811093.43		
11390.00	61.07	3.19	11283.72	301.09	302.91	206.51	10.89	478410.32	811095.18		
11416.00	64.54	2.43	11295.60	324.18	326.00	207.64	13.60	478433.41	811096.31		
11510.00	75.00	356.53	11328.08	412.21	414.03	206.69	12.58	478521.44	811095.36		
11542.00	81.23	355.76	11334.67	443.45	445.26	204.58	19.61	478552.66	811093.25		
11638.00	90.28	356.35	11341.77	538.92	540.67	198.00	9.45	478648.07	811086.67		
11733.00	90.42	358.29	11341.19	633.84	635.56	193.56	2.05	478742.96	811082.23		
11828.00	91.89	0.96	11339.27	728.81	730.52	192.94	3.21	478837.93	811081.61		
11923.00	91.26	0.85	11336.66	823.75	825.47	194.44	0.67	478932.88	811083.11		
12018.00	90.49	2.00	11335.21	918.68	920.43	196.80	1.46	479027.84	811085.47		
12113.00	89.30	2.58	11335.39	1013.56	1015.35	200.60	1.39	479122.76	811089.27		
12208.00	90.07	1.37	11335.91	1108.47	1110.29	203.87	1.51	479217.70	811092.54		
12304.00	90.70	359.23	11335.26	1204.45	1206.28	204.38	2.32	479313.69	811093.04		
12399.00	89.58	359.33	11335.03	1299.45	1301.27	203.18	1.18	479408.68	811091.85		
12494.00	91.40	358.61	11334.22	1394.44	1396.25	201.47	2.06	479503.66	811090.14		
12589.00	89.51	358.50	11333.46	1489.42	1491.21	199.08	1.99	479598.62	811087.75		
12684.00	93.01	359.85	11331.37	1584.38	1586.16	197.71	3.95	479693.57	811086.38		
12779.00	91.82	359.07	11327.37	1679.29	1681.07	196.82	1.50	479788.48	811085.48		
12874.00	90.98	359.15	11325.05	1774.26	1776.03	195.34	0.89	479883.44	811084.01		
12969.00	89.86	359.95	11324.35	1869.25	1871.02	194.59	1.45	479978.43	811083.26		
13064.00	91.33	2.07	11323.37	1964.21	1966.00	196.27	2.72	480073.41	811084.94		
13159.00	90.56	2.37	11321.80	2059.09	2060.91	199.95	0.87	480168.32	811088.62		
13254.00	90.14	1.72	11321.22	2153.99	2155.85	203.34	0.81	480263.26	811092.01		
13349.00	89.58	0.69	11321.45	2248.95	2250.83	205.34	1.23	480358.23	811094.00		
13444.00	91.33	1.57	11320.70	2343.90	2345.80	207.21	2.06	480453.21	811095.88		
13539.00	90.63	1.78	11319.07	2438.82	2440.74	209.99	0.77	480548.15	811098.65		
13634.00	89.65	1.52	11318.84	2533.75	2535.70	212.72	1.07	480643.11	811101.39		
13730.00	90.84	358.87	11318.43	2629.73	2631.69	213.05	3.03	480739.10	811101.71		
13825.00	89.37	358.48	11318.26	2724.72	2726.66	210.85	1.60	480834.07	811099.52		
13919.00	90.91	357.60	11318.03	2818.68	2820.60	207.64	1.89	480928.01	811096.30		
14014.00	91.96	357.73	11315.65	2913.61	2915.49	203.77	1.11	481022.90	811092.43		
14109.00	92.73	359.19	11311.76	3008.51	3010.38	201.22	1.74	481117.79	811089.88		
14204.00	93.15	359.12	11306.89	3103.38	3105.24	199.82	0.45	481212.65	811088.48		
14299.00	91.26	359.99	11303.23	3198.30	3200.16	199.08	2.19	481307.57	811087.75		
14395.00	90.84	0.64	11301.47	3294.28	3296.14	199.61	0.81	481403.55	811088.27		

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
DB (US ft)	Inc. (°)	Alt. (ft)	TVD (US ft)	US (US ft)	EDM (ft) (US ft)	Length (US ft)	SLR (US ft)	Depth (US ft)	Bottom (US ft)	Comments
14489.00	90.49	2.30	11300.38	3388.21	3390.10	202.02	1.80	481497.51	811090.69	
14584.00	88.81	2.06	11300.96	3483.10	3485.03	205.63	1.79	481592.44	811094.30	
14679.00	87.90	2.26	11303.69	3577.96	3579.92	209.21	0.98	481687.33	811097.88	
14775.00	89.37	0.16	11305.98	3673.88	3675.87	211.24	2.67	481783.27	811099.90	
14870.00	91.33	359.26	11305.40	3768.87	3770.86	210.76	2.27	481878.27	811099.42	
14965.00	92.03	359.59	11302.61	3863.83	3865.81	209.80	0.81	481973.22	811098.47	
15061.00	90.63	359.17	11300.38	3959.80	3961.78	208.76	1.52	482069.19	811097.43	
15156.00	90.84	359.60	11299.16	4054.80	4056.76	207.75	0.50	482164.17	811096.41	
15251.00	90.56	359.13	11298.00	4149.79	4151.75	206.69	0.58	482259.16	811095.36	
15346.00	88.18	357.63	11299.05	4244.75	4246.70	204.01	2.96	482354.11	811092.67	
15441.00	89.65	358.23	11300.85	4339.70	4341.61	200.58	1.67	482449.02	811089.24	
15537.00	92.86	1.22	11298.74	4435.65	4437.57	200.11	4.57	482544.98	811088.78	
15632.00	91.89	0.20	11294.81	4530.55	4532.48	201.29	1.48	482639.88	811089.96	
15727.00	92.10	1.21	11291.50	4625.47	4627.41	202.46	1.09	482734.82	811091.13	
15822.00	91.54	0.79	11288.48	4720.39	4722.35	204.12	0.74	482829.76	811092.78	
15917.00	89.16	0.83	11287.90	4815.35	4817.33	205.46	2.51	482924.74	811094.13	
16012.00	87.97	0.50	11290.28	4910.30	4912.29	206.56	1.30	483019.70	811095.23	
16108.00	87.27	357.78	11294.27	5006.21	5008.19	205.12	2.92	483115.60	811093.79	
16164.00	87.13	357.55	11297.01	5062.11	5064.07	202.84	0.48	483171.48	811091.51	
16230.00	87.13	357.55	11300.31	5127.99	5129.93	200.03	0.00	483237.34	811088.69	Last WFT MWD Svy Projection to TD