



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

RAILROAD COMMISSION OF TEXAS

Oil & Gas Division

P.O. Drawer 12967

Capitol Station

Austin, TX 78711-2967

Date November 29, 2011

Attention: Pam Johns

Re: OCCIDENTAL PERMIAN LTD.

Well: UNIVERSITY -YZ- 7H

RRC Lease/Gas ID No. N/A-

UL Survey, A U405

Andrews County Texas

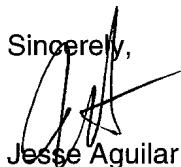
API# 42-003-42900

Enclosed, please find the survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), 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>
Michael Lockhart MWD Supervisor	7H	473' MD 11225' MD	10/31/2011 11/29/2011	Measurement While Drilling

A certified plat on which the bottom-hole location is oriented both to the surface location and to the lease lines (or unit line in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,



Jesse Aguilar

MWD Ops. Coordinator

Cc: Oxy USA WTP LP
Attn: Douglas Muir
5 Greenway Plaza, Suite 110
Houston Texas 77046



Weatherford International Ltd.

RRCOT



Weatherford

Company: Occidental Permian Ltd.	Date: 11/29/2011	Time: 07:16:25	Page: 1
Field: Andrews Co, Texas (Nad 27)	Co-ordinate(NE) Reference: Well: YZ7, Grid North		
Site: University YZ7	Vertical (TVD) Reference: SITE 3301.9		
Well: YZ7	Section (VS) Reference: Well (0.00N,0.00E,42.30Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy **Start Date:** 11/1/2011

Company: Weatherford International Ltd. **Engineer:** Keith Noack
Tool: MWD;MWD - Standard **Tied-to:** User Defined

Field: Andrews Co, Texas (Nad 27)

Map System: US State Plane Coordinate System 1927 **Map Zone:** Texas, North Central Zone
Geo Datum: NAD27 (Clarke 1866) **Coordinate System:** Well Centre
Sys Datum: Mean Sea Level **Geomagnetic Model:** IGRF2010

Site: University YZ7

Site Position:	Northing: 308015.91 ft	Latitude: 32 24 10.456 N
From: Map	Easting: 386531.03 ft	Longitude: 102 43 47.404 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3277.40 ft		Grid Convergence: -2.85 deg

Well: YZ7

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 308015.91 ft	Latitude: 32 24 10.456 N
+E/-W 0.00 ft	Easting : 386531.03 ft	Longitude: 102 43 47.404 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.16 deg
Mag Dip Angle: 60.49 deg
+E/-W **Direction**
 ft deg

Current Datum: SITE **Height** 3301.90 ft
Magnetic Data: 10/30/2011
Field Strength: 48803 nT
Vertical Section: Depth From (TVD) +N/-S
 ft ft

0.00 0.00 0.00 42.30

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	ClsD ft	ClsA deg	Comment
317.00	0.88	271.26	316.99	-0.14	-2.60	0.00	-1.86	2.61	266.84	Tie on SDI First Wft Svy
473.00	0.73	268.20	472.97	-0.15	-4.79	0.10	-3.34	4.80	268.22	
968.00	0.77	259.75	967.93	-0.84	-11.22	0.02	-8.17	11.25	265.72	
1219.00	0.71	308.65	1218.91	-0.17	-14.09	0.25	-9.61	14.09	269.32	
1502.00	0.46	349.89	1501.90	2.05	-15.66	0.17	-9.03	15.79	277.44	
1974.00	0.18	49.61	1973.89	4.39	-15.43	0.08	-7.14	16.04	285.89	Csg 1
2200.00	0.29	121.61	2199.89	4.32	-14.67	0.13	-6.68	15.29	286.41	
2445.00	0.58	140.27	2444.88	3.04	-13.34	0.13	-6.73	13.68	282.82	
2918.00	1.17	62.16	2917.84	3.45	-7.54	0.25	-2.52	8.29	294.59	
3107.00	1.09	58.29	3106.80	5.30	-4.31	0.06	1.02	6.83	320.90	
3390.00	0.95	53.06	3389.76	8.12	-0.14	0.06	5.91	8.12	359.01	
3802.00	1.64	61.22	3801.65	13.01	7.76	0.17	14.85	15.15	30.80	
3925.00	1.75	68.65	3924.59	14.54	11.05	0.20	18.19	18.26	37.22	
4114.00	0.80	67.45	4113.55	16.10	14.96	0.50	21.97	21.97	42.89	
4303.00	0.65	69.02	4302.53	16.99	17.18	0.08	24.13	24.16	45.31	
4491.00	0.67	95.56	4490.52	17.27	19.26	0.16	25.74	25.87	48.13	
4680.00	0.55	123.93	4679.51	16.65	21.12	0.17	26.53	26.89	51.74	
4869.00	0.74	135.70	4868.50	15.27	22.72	0.12	26.59	27.38	56.09	
5058.00	0.84	132.12	5057.48	13.47	24.60	0.06	26.52	28.05	61.30	
5247.00	1.06	140.31	5246.45	11.20	26.75	0.14	26.28	29.00	67.29	
5435.00	0.44	175.89	5434.44	9.14	27.91	0.40	25.54	29.37	71.87	Csg 2
5600.00	0.67	200.26	5599.43	7.60	27.62	0.20	24.21	28.65	74.62	
5624.00	0.71	202.39	5623.43	7.33	27.51	0.20	23.94	28.47	75.08	
5813.00	0.67	202.07	5812.41	5.22	26.65	0.02	21.80	27.16	78.91	



Weatherford International Ltd.

RRCOT



Weatherford

Company: Occidental Permian Ltd.	Date: 11/29/2011	Time: 07:16:25	Page: 2
Field: Andrews Co, Texas (Nad 27)	Co-ordinate(NE) Reference: Well: YZ7, Grid North		
Site: University YZ7	Vertical (TVD) Reference: SITE 3301.9		
Well: YZ7	Section (VS) Reference: Well (0.00N,0.00E,42.30Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	ClsD ft	ClsA deg	Comment
6002.00	0.60	193.50	6001.40	3.24	26.01	0.06	19.90	26.21	82.90	
6191.00	0.62	172.22	6190.39	1.26	25.91	0.12	18.37	25.95	87.21	
6380.00	0.64	154.14	6379.38	-0.70	26.51	0.11	17.33	26.52	91.51	
6569.00	0.77	155.30	6568.36	-2.80	27.50	0.07	16.44	27.65	95.82	
6757.00	0.60	125.72	6756.35	-4.53	28.83	0.21	16.06	29.18	98.92	
6946.00	0.77	123.15	6945.34	-5.80	30.70	0.09	16.37	31.24	100.70	
7136.00	0.80	107.34	7135.32	-6.89	33.03	0.11	17.13	33.74	101.79	
7324.00	0.74	96.79	7323.30	-7.43	35.49	0.08	18.39	36.26	101.82	
7513.00	0.67	111.69	7512.29	-7.98	37.73	0.10	19.49	38.56	101.94	
7702.00	0.47	62.00	7701.28	-8.02	39.44	0.27	20.61	40.25	101.50	
7891.00	0.18	12.89	7890.28	-7.37	40.19	0.20	21.60	40.86	100.39	
8079.00	0.40	105.02	8078.28	-7.25	40.89	0.24	22.16	41.53	100.06	
8268.00	1.08	111.84	8267.26	-8.09	43.18	0.36	23.08	43.93	100.61	
8453.00	2.41	122.82	8452.17	-10.84	48.07	0.74	24.33	49.28	102.71	
8548.00	2.18	119.51	8547.09	-12.82	51.32	0.28	25.06	52.90	104.02	
8642.00	1.83	120.89	8641.04	-14.47	54.16	0.38	25.75	56.06	104.95	
8673.00	1.20	109.48	8672.03	-14.83	54.90	2.24	25.98	56.86	105.12	
8705.00	0.64	96.20	8704.02	-14.96	55.39	1.86	26.21	57.37	105.12	
8736.00	0.50	82.67	8735.02	-14.96	55.70	0.62	26.42	57.67	105.04	
8831.00	0.50	74.41	8830.02	-14.80	56.51	0.08	27.08	58.41	104.68	
8925.00	0.84	99.65	8924.01	-14.80	57.58	0.47	27.80	59.45	104.42	
9020.00	0.40	19.80	9019.00	-14.61	58.38	0.91	28.49	60.18	104.05	
9063.00	0.40	78.25	9062.00	-14.44	58.58	0.91	28.75	60.33	103.84	
9094.00	2.40	58.83	9092.99	-14.08	59.24	6.54	29.46	60.89	103.37	
9126.00	4.27	54.32	9124.94	-13.04	60.78	5.90	31.26	62.16	102.11	
9157.00	6.69	51.56	9155.79	-11.24	63.13	7.85	34.17	64.12	100.10	
9189.00	8.57	51.30	9187.51	-8.59	66.45	5.88	38.37	67.01	97.37	
9220.00	10.57	49.72	9218.08	-5.31	70.42	6.51	43.47	70.62	94.31	
9252.00	13.17	47.51	9249.39	-0.95	75.35	8.25	50.01	75.36	90.72	
9283.00	15.56	45.41	9279.42	4.36	80.92	7.89	57.68	81.04	86.92	
9315.00	17.42	43.39	9310.10	10.85	87.27	6.08	66.76	87.94	82.91	
9346.00	20.11	42.75	9339.45	18.14	94.07	8.70	76.73	95.81	79.09	
9377.00	22.50	43.32	9368.33	26.37	101.76	7.74	87.99	105.12	75.47	
9409.00	24.33	43.91	9397.69	35.57	110.53	5.77	100.70	116.12	72.16	
9440.00	26.39	44.15	9425.70	45.12	119.76	6.65	113.97	127.98	69.36	
9472.00	28.68	44.05	9454.08	55.74	130.06	7.16	128.76	141.50	66.80	
9503.00	30.94	43.18	9480.97	66.90	140.68	7.42	144.16	155.78	64.57	
9535.00	32.48	42.11	9508.20	79.27	152.07	5.12	160.98	171.50	62.47	
9566.00	33.99	40.34	9534.13	92.06	163.27	5.79	177.97	187.43	60.58	
9586.51	35.27	39.23	9551.00	101.01	170.72	6.95	189.61	198.37	59.39	Woodford
9598.00	35.99	38.64	9560.34	106.22	174.93	6.95	196.29	204.65	58.73	
9629.00	38.38	38.89	9585.04	120.83	186.66	7.73	214.99	222.35	57.08	
9661.00	40.45	39.52	9609.76	136.57	199.50	6.59	235.28	241.77	55.61	
9693.00	42.49	41.19	9633.74	152.71	213.23	7.25	256.45	262.27	54.39	
9724.00	44.15	41.91	9656.29	168.62	227.34	5.59	277.72	283.05	53.43	
9755.00	45.62	42.28	9678.25	184.86	242.00	4.82	299.60	304.53	52.63	
9766.15	46.38	42.20	9686.00	190.80	247.40	6.83	307.62	312.42	52.36	Devonian
9787.00	47.80	42.06	9700.19	202.12	257.64	6.83	322.89	327.46	51.89	
9818.00	51.34	41.67	9720.29	219.69	273.38	11.46	346.48	350.72	51.21	
9850.00	56.36	41.05	9739.16	239.08	290.45	15.77	372.31	376.19	50.54	
9881.00	60.58	39.70	9755.37	259.21	307.55	14.11	398.71	402.22	49.88	
9913.00	63.49	39.19	9770.38	281.04	325.51	9.20	426.93	430.04	49.19	



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Site: University YZ7	Vertical (TVD) Reference: SITE 3301.9		
Well: YZ7	Section (VS) Reference: Well (0.00N,0.00E,42.30Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	ClsD ft	ClsA deg	Comment
9944.00	65.80	38.92	9783.65	302.79	343.16	7.49	454.90	457.64	48.58	
9976.00	67.95	38.30	9796.22	325.78	361.52	6.95	484.27	486.65	47.98	
10007.00	70.15	37.91	9807.30	348.56	379.38	7.19	513.14	515.20	47.42	
10038.00	72.05	38.10	9817.34	371.67	397.44	6.16	542.38	544.15	46.92	
10070.00	74.26	38.28	9826.61	395.74	416.37	6.93	572.93	574.44	46.46	
10102.00	76.13	38.69	9834.79	419.96	435.63	5.97	603.80	605.09	46.05	
10133.00	78.06	39.70	9841.71	443.37	454.72	6.99	633.97	635.10	45.72	
10165.00	81.11	40.65	9847.50	467.42	475.02	9.97	665.41	666.43	45.46	
10196.00	83.10	41.30	9851.76	490.60	495.16	6.75	696.11	697.04	45.26	
10296.00	88.50	41.24	9859.08	565.53	560.92	5.40	795.79	796.53	44.77	
10310.00	88.43	41.18	9859.45	576.06	570.14	0.66	809.78	810.49	44.70	
10342.00	88.36	40.94	9860.35	600.18	591.15	0.78	841.76	842.42	44.57	
10374.00	88.00	40.91	9861.37	624.34	612.10	1.13	873.74	874.34	44.43	
10406.00	87.58	40.91	9862.60	648.51	633.04	1.31	905.70	906.26	44.31	
10437.00	87.80	40.24	9863.85	672.04	653.19	2.27	936.66	937.17	44.19	
10470.00	87.37	40.73	9865.24	697.11	674.59	1.97	969.62	970.07	44.06	
10501.00	87.30	40.60	9866.68	720.60	694.77	0.48	1000.57	1000.99	43.95	
10532.00	87.17	41.18	9868.18	744.01	715.04	1.92	1031.52	1031.91	43.86	
10563.00	87.10	40.35	9869.73	767.46	735.26	2.68	1062.47	1062.83	43.77	
10595.00	87.02	40.42	9871.37	791.80	755.96	0.33	1094.41	1094.73	43.67	
10626.00	86.88	40.30	9873.02	815.39	776.01	0.59	1125.35	1125.64	43.58	
10658.00	86.95	40.23	9874.74	839.77	796.66	0.31	1157.29	1157.54	43.49	
10690.00	87.58	39.66	9876.27	864.28	817.19	2.65	1189.22	1189.44	43.40	
10722.00	87.66	39.69	9877.59	888.89	837.60	0.27	1221.16	1221.35	43.30	
10754.00	87.52	39.42	9878.94	913.54	857.96	0.95	1253.10	1253.25	43.20	
10786.00	87.24	39.26	9880.40	938.26	878.22	1.01	1285.02	1285.15	43.11	
10817.00	87.17	39.39	9881.91	962.21	897.84	0.48	1315.94	1316.05	43.02	
10849.00	86.82	39.39	9883.59	986.91	918.12	1.09	1347.86	1347.94	42.93	
10881.00	86.61	39.47	9885.43	1011.59	938.41	0.70	1379.76	1379.83	42.85	
10913.00	87.31	40.89	9887.12	1036.00	959.03	4.94	1411.70	1411.75	42.79	
10945.00	87.24	39.65	9888.64	1060.39	979.69	3.88	1443.64	1443.68	42.73	
10976.00	87.10	39.74	9890.18	1084.21	999.47	0.54	1474.57	1474.60	42.67	
11008.00	87.03	39.60	9891.81	1108.81	1019.87	0.49	1506.49	1506.52	42.61	
11040.00	86.67	39.83	9893.57	1133.39	1040.28	1.33	1538.41	1538.43	42.55	
11072.00	87.10	39.82	9895.31	1157.93	1060.75	1.34	1570.34	1570.34	42.49	
11104.00	87.73	40.02	9896.75	1182.44	1081.26	2.07	1602.28	1602.28	42.44	
11135.00	87.94	40.28	9897.93	1206.12	1101.24	1.08	1633.23	1633.23	42.40	
11167.00	88.14	40.34	9899.02	1230.51	1121.92	0.65	1665.19	1665.19	42.36	
11199.00	88.08	40.71	9900.08	1254.82	1142.71	1.17	1697.16	1697.16	42.32	
11225.00	87.65	40.83	9901.04	1274.50	1159.67	1.72	1723.13	1723.13	42.30	Last Wft Svy
11290.00	87.65	40.83	9903.71	1323.64	1202.14	0.00	1788.06	1788.06	42.25	Proj. to Bit

Annotation

MD ft	TVD ft	
317.00	316.99	Tie on SDI
473.00	472.97	First Wft Svy
11225.00	9901.04	Last Wft Svy
11290.00	9903.71	Proj. to Bit

