



# 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

Occidental Permian Ltd.  
5 Greenway Plaza Suite 110  
Houston Tx 77046

Date: February 14, 2014

Attention: Chan Tysor

Re: Occidental Permian Ltd  
Well: Seven Rivers 17 Fed #2h  
Eddy County, New Mexico

15-41061

Enclosed, please find the original 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 &amp; Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Sean Gregory MWD Supervisor	2H	856' MD 6570' MD	1-29-2014 2-12-2014	Measurement While Drilling

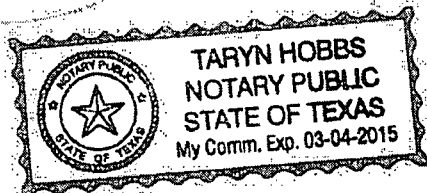
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar  
MWD Coordinator

On this, the 21<sup>st</sup> day of FEBRUARY, 2014, before me a notary public, the undersigned officer, personally appeared JESUS AGUILAR 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





**Seven Rivers 17 Fed 2H  
Eddy Co., NM**

SECTION DETAILS										
Set	MD	Inc	Azi	TVD	N/S	+E-W	DLeg	TFace	VSec	Target
1	1687.00	11.14	190.00	1686.35	-0.90	-17.68	0.0000	0.00	0.39	
2	2026.00	30.00	182.20	2002.35	-118.92	8.66	5.6100	347.98	118.62	
3	3085.82	89.56	181.78	2512.08	-993.55	-20.68	5.6200	-0.49	993.73	
4	6731.54	89.56	181.78	2540.00	-4637.40	-134.00	0.0000	0.00	4639.34	PBHL

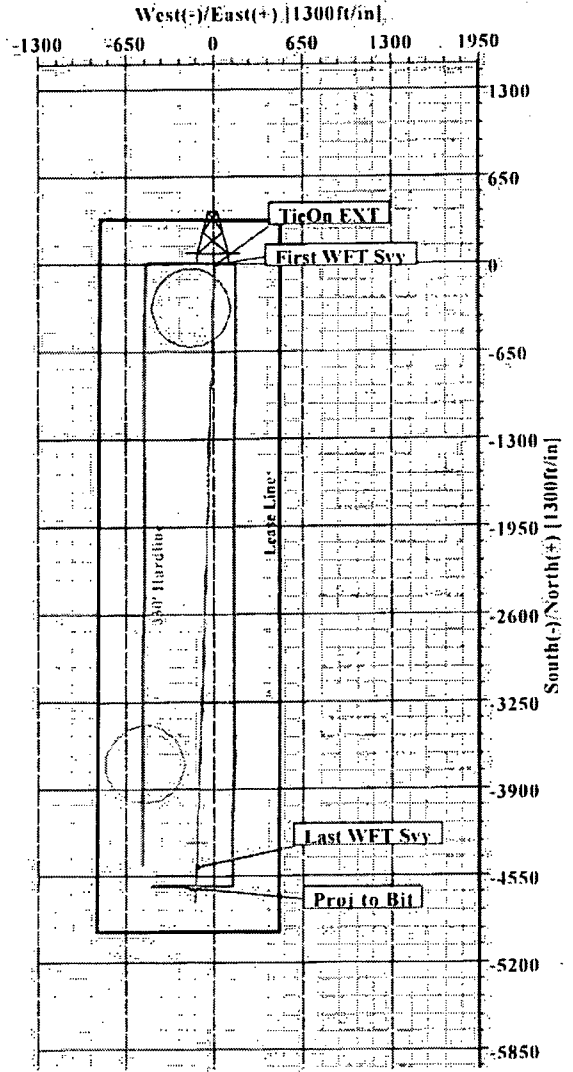
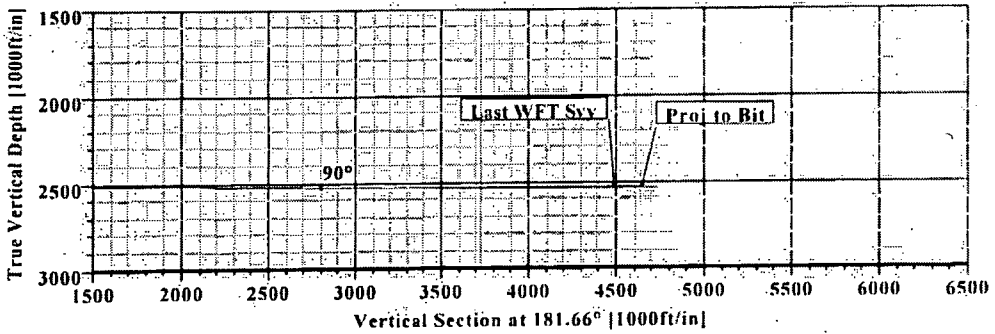
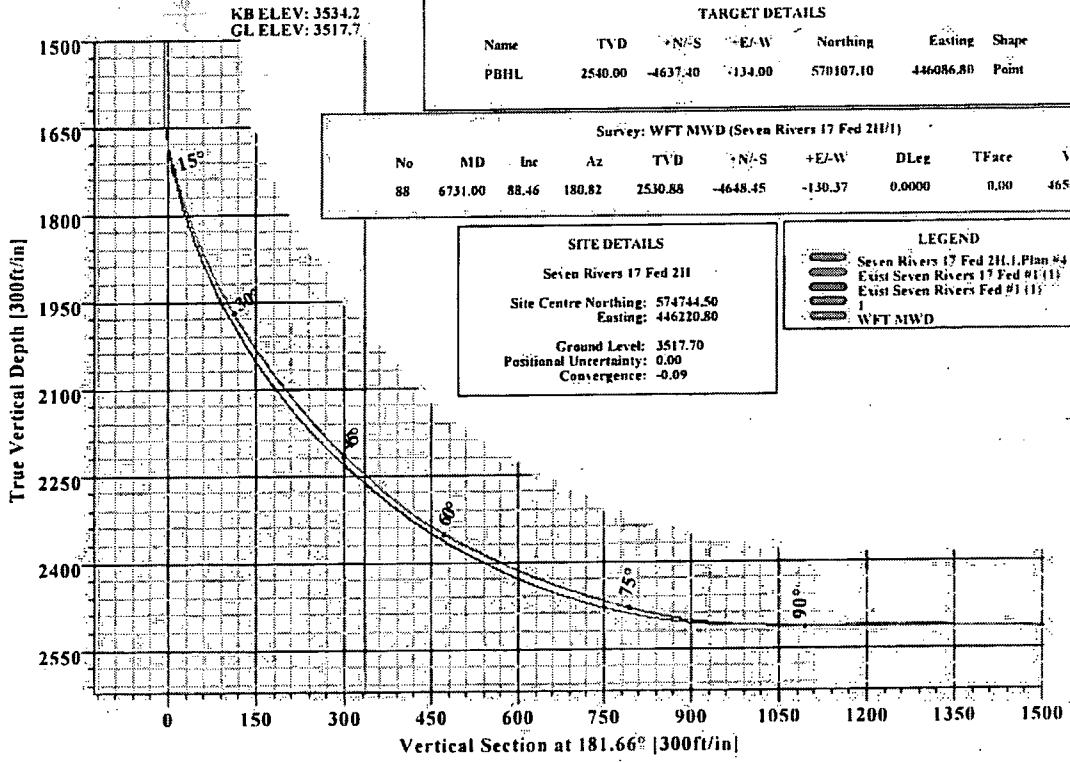
WELL DETAILS							
Name	N/S	E/W	Northing	Easting	Latitude	Longitude	Slot
Seven Rivers 17 Fed 2H	0.00	0.00	574744.50	446220.80	32°34'47.848N	104°30'28.531W	N/A

TARGET DETAILS						
Name	TVD	N/S	E/W	Northing	Easting	Shape
PBHL	2540.00	-4637.40	-134.00	570107.10	446086.80	Point

Survey: WFT MWD (Seven Rivers 17 Fed 2H/1)									
No	MD	Inc	Az	TVD	N/S	+E-W	DLeg	TFace	VSec
88	6731.00	88.46	180.82	2530.88	-4648.45	-130.37	0.0000	0.00	4650.28

**SITE DETAILS**  
 Seven Rivers 17 Fed 2H  
 Site Centre Northing: 574744.50  
 Easting: 446220.80  
 Ground Level: 3517.70  
 Positional Uncertainty: 0.00  
 Convergence: -0.09

**LEGEND**



Survey: WFT MWD (Seven Rivers 17 Fed 2H/1)  
 Created By: Michael Dill  
 Date: 2/14/2014



# Weatherford International Ltd.

## WFT Survey Report X&Y's



**Weatherford**

Company: Occidental Permian Ltd.	Date: 2/14/2014	Time: 10:48:00	Page: 1
Field: Eddy Co. NM (Nad 27)	Co-ordinate(NE) Reference: Well: Seven Rivers 17 Fed 2H, Grid North		
Site: Seven Rivers 17 Fed 2H	Vertical (TVD) Reference: SITE 3534.2		
Well: Seven Rivers 17 Fed 2H	Section (VS) Reference: Well (0.00N,0.00E,181.66Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature		Db: Sybase

Survey: \_\_\_\_\_ Start Date: \_\_\_\_\_

Company: \_\_\_\_\_ Engineer: \_\_\_\_\_  
Tool: \_\_\_\_\_ Tied-to: \_\_\_\_\_

Site: Seven Rivers 17 Fed 2H

Site Position:	Northing: 574744.50 ft	Latitude: 32 34 47.848 N	
From: Map	Easting: 446220.80 ft	Longitude: 104 30 28.531 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 3517.70 ft		Grid Convergence: -0.09 deg	

Well: Seven Rivers 17 Fed 2H Slot Name: \_\_\_\_\_

Well Position:	Northing: 574744.50 ft	Latitude: 32 34 47.848 N	
±N-S 0.00 ft	Easting: 446220.80 ft	Longitude: 104 30 28.531 W	
±E-W 0.00 ft			
Position Uncertainty: 0.00 ft			

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE	Height 3534.20 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 12/17/2013		Above System Datum: Mean Sea Level	
Field Strength: 48501 nT		Declination: 7.74 deg	
Vertical Section: Depth From (TVD)	±N-S	Mag Dip Angle: 60.29 deg	
ft	ft	ft	Direction deg
0.00	0.00	0.00	181.66

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.00	574744.50	446220.80	
186.00	1.01	80.97	185.99	0.26	1.62	0.5430	-0.30	574744.76	446222.42	
302.00	1.01	79.60	301.97	0.60	3.63	0.0208	-0.71	574745.10	446224.43	
509.00	0.88	72.88	508.94	1.40	6.95	0.0824	-1.60	574745.90	446227.75	
691.00	1.10	69.58	690.92	2.42	9.92	0.1248	-2.71	574746.92	446230.72	TieOn EXT
856.00	0.63	56.29	855.90	3.48	12.16	0.3079	-3.83	574747.98	446232.96	First WFT Svy
1022.00	0.51	78.30	1021.89	4.13	13.64	0.1491	-4.53	574748.63	446234.44	
1202.00	0.81	67.94	1201.88	4.77	15.61	0.1787	-5.22	574749.27	446236.41	
1381.00	0.46	45.71	1380.87	5.75	17.29	0.2356	-6.25	574750.25	446238.09	
1561.00	0.74	57.59	1560.86	6.88	18.79	0.1694	-7.42	574751.38	446239.59	
1612.00	0.73	176.84	1611.85	6.73	19.09	2.4867	-7.28	574751.23	446239.89	
1657.00	8.14	188.93	1656.69	3.29	18.61	16.5061	-3.83	574747.79	446239.41	
1702.00	13.60	187.44	1700.86	-5.11	17.43	12.1484	4.60	574739.39	446238.23	
1747.00	16.29	189.02	1744.34	-16.59	15.75	6.0454	16.13	574727.91	446236.55	
1792.00	18.92	189.30	1787.23	-30.02	13.58	5.8475	29.62	574714.48	446234.38	
1837.00	21.52	187.77	1829.45	-45.41	11.29	5.8956	45.06	574699.09	446232.09	
1882.00	23.62	187.88	1871.00	-62.51	8.94	4.6676	62.23	574681.99	446229.74	
1927.00	25.78	188.03	1911.88	-81.14	6.33	4.8020	80.92	574663.36	446227.13	
1972.00	28.70	186.17	1951.89	-101.57	3.80	6.7583	101.42	574642.93	446224.60	
2017.00	31.38	185.48	1990.84	-123.98	1.52	6.0047	123.89	574620.52	446222.32	
2062.00	33.54	184.16	2028.81	-148.05	-0.50	5.0513	148.00	574596.45	446220.30	
2107.00	35.81	182.47	2065.81	-173.60	-1.97	5.4779	173.59	574570.90	446218.83	
2152.00	37.88	182.25	2101.82	-200.56	-3.08	4.6093	200.57	574543.94	446217.72	
2197.00	39.67	182.39	2136.91	-228.72	-4.22	3.9825	228.75	574515.78	446216.58	
2242.00	41.76	182.22	2171.01	-258.05	-5.40	4.6510	258.10	574486.45	446215.40	
2287.00	44.07	182.92	2203.97	-288.66	-6.78	5.2414	288.73	574455.84	446214.02	
2332.00	46.58	182.16	2235.60	-320.62	-8.19	5.7055	320.72	574423.88	446212.61	
2376.00	48.78	181.06	2265.22	-353.14	-9.10	5.3306	353.25	574391.36	446211.70	
2421.00	51.46	181.19	2294.08	-387.66	-9.78	5.9597	387.78	574356.84	446211.02	
2466.00	55.32	181.40	2320.91	-423.77	-10.59	8.5859	423.90	574320.73	446210.21	



# Weatherford International Ltd.

## WFT Survey Report X&Y's



**Weatherford**

<b>Company:</b> Occidental Permian Ltd.	<b>Date:</b> 2/14/2014	<b>Time:</b> 10:48:00	<b>Page:</b> 2
<b>Field:</b> Eddy Co, NM (Nad 27)	<b>Co-ordinate(NE) Reference:</b> Well: Seven Rivers 17 Fed 2H, Grid North		
<b>Site:</b> Seven Rivers 17 Fed 2H	<b>Vertical (TVD) Reference:</b> SITE 3534.2		
<b>Well:</b> Seven Rivers 17 Fed 2H	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,181.66Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

Survey:											
MD	Incl	Azim	TVD	N/S	E/W	DLS	VS	MapN	MapE	Comment	
ft	deg	deg	ft	ft	ft	deg/100ft	ft	ft	ft	ft	
2511.00	59.23	181.14	2345.23	-461.61	-11.43	8.7025	461.75	574282.89	446209.37		
2556.00	61.91	180.79	2367.34	-500.79	-12.09	5.9939	500.93	574243.71	446208.71		
2601.00	64.12	180.58	2387.76	-540.89	-12.57	4.9287	541.02	574203.61	446208.23		
2646.00	65.83	180.63	2406.79	-581.66	-13.00	3.8013	581.79	574162.84	446207.80		
2691.00	67.86	180.88	2424.49	-623.03	-13.54	4.5399	623.16	574121.47	446207.26		
2736.00	70.03	181.32	2440.65	-665.01	-14.35	4.9078	665.15	574079.49	446206.45		
2780.00	71.98	181.20	2454.97	-706.61	-15.27	4.4393	706.75	574037.89	446205.53		
2825.00	73.50	181.89	2468.32	-749.56	-16.43	3.6815	749.72	573994.94	446204.37		
2870.00	74.99	182.27	2480.54	-792.84	-18.00	3.4094	793.03	573951.66	446202.80		
2915.00	77.52	182.75	2491.23	-836.51	-19.91	5.7169	836.73	573907.99	446200.89		
2960.00	80.40	182.94	2499.85	-880.62	-22.11	6.4134	880.89	573863.88	446198.69		
3005.00	84.14	182.63	2505.90	-925.15	-24.27	8.3391	925.46	573819.35	446196.53		
3050.00	86.78	182.38	2509.46	-969.96	-26.23	5.8927	970.31	573774.54	446194.57		
3095.00	87.25	182.28	2511.81	-1014.86	-28.06	1.0678	1015.25	573729.64	446192.74		
3140.00	88.57	182.63	2513.45	-1059.79	-29.99	3.0346	1060.21	573684.71	446190.81		
3185.00	90.58	181.91	2513.78	-1104.75	-31.77	4.7445	1105.20	573639.75	446189.03		
3230.00	91.82	181.02	2512.84	-1149.72	-32.92	3.3916	1150.19	573594.78	446187.88		
3275.00	91.42	180.64	2511.57	-1194.70	-33.57	1.2258	1195.17	573549.80	446187.23		
3365.00	88.65	180.64	2511.51	-1284.68	-34.57	3.0778	1285.15	573459.82	446186.23		
3410.00	89.00	180.33	2512.43	-1329.67	-34.96	1.0389	1330.13	573414.83	446185.84		
3455.00	89.19	180.36	2513.15	-1374.67	-35.23	0.4275	1375.11	573369.83	446185.57		
3500.00	89.37	180.45	2513.71	-1419.66	-35.54	0.4472	1420.10	573324.84	446185.26		
3545.00	89.56	180.44	2514.13	-1464.66	-35.89	0.4228	1465.08	573279.84	446184.91		
3590.00	89.70	180.32	2514.42	-1509.66	-36.19	0.4098	1510.07	573234.84	446184.61		
3635.00	90.05	180.07	2514.52	-1554.66	-36.35	0.9558	1555.06	573189.84	446184.45		
3680.00	90.93	179.71	2514.13	-1599.65	-36.26	2.1129	1600.03	573144.85	446184.54		
3725.00	91.38	180.43	2513.23	-1644.64	-36.31	1.8865	1645.01	573099.86	446184.49		
3770.00	90.17	180.87	2512.62	-1689.64	-36.82	2.8611	1690.00	573054.86	446183.98		
3860.00	88.58	182.94	2513.60	-1779.57	-39.82	2.9000	1779.98	572964.93	446180.98		
3905.00	89.32	182.82	2514.43	-1824.51	-42.08	1.6659	1824.96	572919.99	446178.72		
3950.00	90.26	182.94	2514.59	-1869.45	-44.34	2.1058	1869.95	572875.05	446176.46		
4040.00	89.75	182.58	2514.58	-1959.35	-48.67	0.6936	1959.94	572785.15	446172.13		
4130.00	90.98	182.66	2514.01	-2049.25	-52.78	1.3696	2049.92	572695.25	446168.02		
4220.00	89.58	181.20	2513.57	-2139.19	-55.82	2.2475	2139.91	572605.31	446164.98		
4310.00	90.49	181.38	2513.51	-2229.17	-57.84	1.0307	2229.91	572515.33	446162.96		
4400.00	88.50	180.74	2514.31	-2319.14	-59.51	2.3226	2319.90	572425.36	446161.29		
4490.00	90.00	180.76	2515.49	-2409.13	-60.68	1.6668	2409.87	572335.37	446160.12		
4567.00	89.42	180.97	2515.88	-2486.12	-61.85	0.8011	2486.87	572255.38	446158.95		
4659.00	88.20	180.81	2517.79	-2578.08	-63.28	1.3374	2578.84	572166.42	446157.52		
4783.00	88.93	181.10	2520.89	-2702.03	-65.34	0.6334	2702.79	572042.47	446155.46		
4874.00	88.15	181.42	2523.21	-2792.97	-67.34	0.9264	2793.75	571951.53	446153.46		
4966.00	87.86	182.01	2526.41	-2884.88	-70.09	0.7142	2885.70	571859.62	446150.71		
5056.00	89.27	182.09	2528.67	-2974.79	-73.31	1.5692	2975.67	571769.71	446147.49		
5130.00	90.37	182.00	2528.90	-3048.74	-75.95	1.4915	3049.66	571695.76	446144.85		
5220.00	89.72	182.01	2528.83	-3138.68	-79.10	0.7223	3139.66	571605.82	446141.70		
5310.00	91.29	181.63	2528.04	-3228.63	-81.96	1.7948	3229.65	571515.87	446138.84		
5400.00	90.66	182.04	2526.50	-3318.57	-84.84	0.8351	3319.64	571425.93	446135.96		
5490.00	91.35	182.52	2524.92	-3408.49	-88.42	0.9339	3409.62	571336.01	446132.38		
5580.00	89.97	182.54	2523.89	-3498.39	-92.39	1.5335	3499.60	571246.11	446128.41		
5670.00	91.01	182.17	2523.12	-3588.31	-96.09	1.2265	3589.59	571156.19	446124.71		
5760.00	89.04	182.11	2523.08	-3678.24	-99.45	2.1899	3679.58	571066.26	446121.35		
5850.00	89.23	182.90	2524.44	-3768.15	-103.38	0.9027	3769.56	570976.35	446117.42		



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## WFT Survey Report X&Y's



**Weatherford**

<b>Company:</b> Occidental Permian Ltd.	<b>Date:</b> 2/14/2014	<b>Time:</b> 10:48:00	<b>Page:</b> 3
<b>Field:</b> Eddy Co, NM (Nad 27)	<b>Co-ordinate(NE) Reference:</b> Well: Seven Rivers 17 Fed 2H, Grid North		
<b>Site:</b> Seven Rivers 17 Fed 2H	<b>Vertical (TVD) Reference:</b> SITE 3534.2		
<b>Well:</b> Seven Rivers 17 Fed 2H	<b>Section (VS) Reference:</b> Well (0.00N,0.00E,181.66Azi)		
<b>Wellpath:</b> 1	<b>Survey Calculation Method:</b> Minimum Curvature	<b>Db:</b> Sybase	

**Survey:**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
5940.00	89.28	182.51	2525.61	-3858.04	-107.63	0.4368	3859.54	570886.46	446113.17	
6030.00	88.35	182.29	2527.47	-3947.94	-111.40	1.0618	3949.51	570796.56	446109.40	
6120.00	89.88	181.87	2528.86	-4037.87	-114.67	1.7629	4039.49	570706.63	446106.13	
6210.00	89.88	181.91	2529.05	-4127.82	-117.63	0.0444	4129.49	570616.68	446103.17	
6300.00	91.56	181.95	2527.92	-4217.76	-120.66	1.8672	4219.48	570526.74	446100.14	
6390.00	92.47	181.94	2524.75	-4307.65	-123.72	1.0112	4309.42	570436.85	446097.08	
6480.00	88.83	181.37	2523.73	-4397.59	-126.32	4.0937	4399.40	570346.91	446094.48	
6525.00	87.76	181.13	2525.07	-4442.56	-127.30	2.4368	4444.38	570301.94	446093.50	
6570.00	88.46	180.82	2526.55	-4487.53	-128.06	1.7011	4489.35	570256.97	446092.74	Last WFT Svy
6731.00	88.46	180.82	2530.88	-4648.45	-130.37	0.0000	4650.28	570096.05	446090.43	Proj to Bit

**Annotation**

MD ft	TVD ft	
691.00	690.92	TieOn EXT
856.00	855.90	First WFT Svy
6570.00	2526.55	Last WFT Svy
6731.00	2530.88	Proj to Bit

