

Reservoir Development

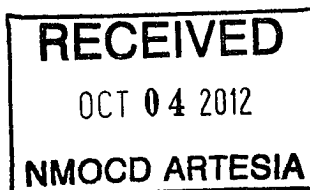
Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551



Schlumberger

30-015-39651

July 30, 2012

Occidental Permian Ltd

5 Greenway Plaza Suite 110

Houston, Texas 77046

Attention: Luis Tarazona

Re:

CLIENT: Occidental Permian Ltd

WELL: ROO 22 State #2

FIELD: Permian Basin

RIG: Savanna 415

COUNTY: Eddy

API NO: 30-015-39651

JOB NO: NM-OXY-0005

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation (P-5 No. 754900).

Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Tracy Murphy Jr FST-2	ROO 22 State #2 Original Hole	487.00 Ft to 4862.00 Ft	July 8, 2012 to July 17, 2012	SlimPulse

A plat of the bottom hole location is oriented both to the surface location and to the lease lines (or until line in case of pooling), is attached to the survey report.

If any other information is required, please contact the undersigned at the above letterhead and phone number.

Sincerely,

Scott Haymond

Field Service Manager

CC: Occidental Permian Ltd

Enclosures: [2]

County of Eddy

State of New Mexico

Reservoir Development

Drilling & Measurements (Extreme Engineering)

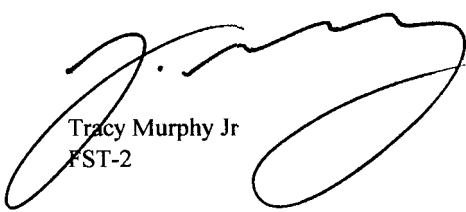
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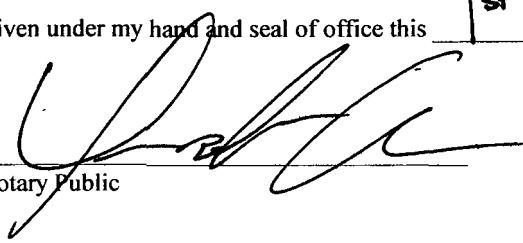
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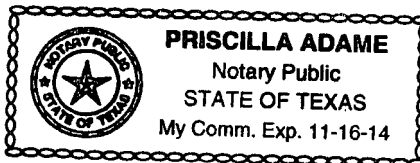
I, Tracy Murphy Jr certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of July 08, 2012 through July 17, 2012, conduct or supervise the taking of the SlimPulse surveys from a depth of 487.00 feet to a depth of 4862.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Occidental Permian Ltd for the ROO 22 State #2 Well (Original Hole) API No. 30-015-39651 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.


Tracy Murphy Jr
FST-2

Before me, Priscilla Adame, on this day personally appeared Tracy Murphy Jr, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 1st day of August, 2012 (year).


Notary Public



ROO 22 State #2 MWD 487' to 4862" Survey Report

(Def Survey)

Report Date: July 18, 2012 - 12 02 PM
 Client: OXY Permain
 Field: Eddy (NAD27) 2011
 Structure / Slot: OXY Permain (ROO 22 State #2) Savanna 415 / ROO 22 State #2
 Well: ROO 22 State #2
 Borehole: Original Hole
 UWI / API#: NM-OXY-0005 / 30-015-39651
 Survey Name: ROO 22 State #2 MWD 276' to 4862"
 Survey Date: July 18, 2012
 Tort / AHD / DDI / ERD Ratio: 54 889 * / 495 788 ft / 4.438 / 0 103
 Coordinate Reference System: NAD27 Universal Transverse Mercator, Zone 13 North, US Feet
 Location Lat / Long: N 32° 48' 57 69432", W 104° 9' 57 60000"
 Location Grid N/E Y/X: N 11912738 477 ftUS, E 1896560 979 ftUS
 CRS Grid Convergence Angle: 0 45200359 *
 Gnd Scale Factor: 0 99987518

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 172.500 * (Gnd North)
 Vertical Section Origin: 0 000 ft, 0 000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3608 100 ft above Unknown
 Seabed / Ground Elevation: 3594 100 ft above Unknown
 Magnetic Declination: 7 890 *
 Total Field Strength: 48786 899 nT
 Magnetic Dip Angle: 60.571 *
 Declination Date: July 18, 2012
 Magnetic Declination Model: BGGM 2012
 North Reference: Grid North
 Gnd Convergence Used: 0 091 *
 Total Corr Mag North->Grid North: 7 799 *
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-In	276 00	2 17	310 59	275 92	-3 74	3 11	-5 01	0 55	11912739 59	1896555 97	N 32 48 57.73	W 104 9 57 66
Begin MWD Survey	487 00	1 67	338 62	486 80	-9 70	8 58	-9 16	0 50	11912745 05	1896551 82	N 32 48 57 78	W 104 9 57 71
	517 00	2 37	345 83	516 78	-10 74	9 58	-9 48	2 48	11912746 06	1896551 51	N 32 48 57 79	W 104 9 57 71
	547 00	3 78	353 92	546 74	-12 34	11 17	-9 73	4 81	11912747 64	1896551 25	N 32 48 57 81	W 104 9 57 71
	577 00	4 31	356 90	576 67	-14 46	13 28	-9 90	1 90	11912749 75	1896551 08	N 32 48 57 83	W 104 9 57 71
	609 00	4 83	357 96	608 56	-17 00	15 82	-10 01	1 85	11912752 30	1896550 97	N 32 48 57 85	W 104 9 57 72
	638 00	5 71	0 77	637 44	-19 64	18 49	-10 03	3 16	11912754 96	1896550 95	N 32 48 57 88	W 104 9 57 72
	713 00	7 73	10 53	711 92	-28 13	27 18	-9 06	3 08	11912763 65	1896551 92	N 32 48 57 96	W 104 9 57 70
	769 00	8 00	22 92	767 40	-35 07	34 47	-6 86	3 06	11912770 94	1896554 12	N 32 48 58 04	W 104 9 57 68
	823 00	9 23	40 50	820 80	-41 21	41 23	-2 58	5 35	11912777 69	1896558 40	N 32 48 58 10	W 104 9 57 63
	883 00	7 38	50 78	880 17	-46 46	47 32	3 53	3 94	11912783 78	1896564 51	N 32 48 58 16	W 104 9 57 55
	957 00	4 39	50 17	953 77	-50 47	52 14	9 39	4 04	11912788 60	1896570 37	N 32 48 58 21	W 104 9 57 49
	1042 00	3 87	88 66	1038 57	-51 90	54 29	14 76	3 25	11912790 75	1896575 73	N 32 48 58 23	W 104 9 57 42
	1129 00	2 81	116 08	1125 43	-50 41	53 43	19 61	2 17	11912789 88	1896580 58	N 32 48 58 22	W 104 9 57 37
	1216 00	3 16	150 71	1212 31	-47 00	50 40	22 70	2 08	11912786 88	1896583 67	N 32 48 58 19	W 104 9 57 33
	1346 00	7 21	176 46	1341 77	-35 53	39 12	24 95	3 52	11912775 59	1896585 92	N 32 48 58 08	W 104 9 57 30
	1476 00	7 82	182 88	1470 66	-18 69	22 15	25 01	0 80	11912758 62	1896585 98	N 32 48 57 91	W 104 9 57 30
	1606 00	7 56	183 50	1599 49	-1 60	4 78	24 05	0 21	11912741 25	1896585 02	N 32 48 57 74	W 104 9 57 32
	1735 00	7 73	185 52	1727 34	15 18	-12 33	22 69	0 25	11912724 15	1896583 67	N 32 48 57 57	W 104 9 57 34
	1865 00	8 09	176 46	1856 11	32 83	-30 16	22 42	1 00	11912706 33	1896583 39	N 32 48 57 39	W 104 9 57 34
	1994 00	8 70	175 76	1983 72	51 62	-48 95	23 70	0 48	11912687 54	1896584 67	N 32 48 57 21	W 104 9 57 33
	2124 00	8 61	177 17	2112 24	71 14	-68 47	24 91	0 18	11912688 03	1896585 88	N 32 48 57 01	W 104 9 57 31
	2254 00	9 14	175 85	2240 69	91 15	-88 49	26 14	0 44	11912648 01	1896587 11	N 32 48 56 82	W 104 9 57 30
	2383 00	9 49	175 23	2367 99	112 00	-109 31	27 76	0 28	11912627 20	1896588 73	N 32 48 56 61	W 104 9 57 28
	2513 00	9 67	176 11	2496 17	133 60	-130 88	29 39	0 18	11912605 64	1896590 36	N 32 48 56 40	W 104 9 57 27
	2642 00	10 02	176 11	2623 27	155 61	-152 89	30 89	0 27	11912583 64	1896591 86	N 32 48 56 18	W 104 9 57 25
	2772 00	10 02	176 55	2751 29	178 18	-175 46	32 34	0 08	11912561 08	1896593 31	N 32 48 55 96	W 104 9 57 24
	2902 00	9 58	176 11	2879 39	200 26	-197 54	33 75	0 34	11912539 00	1896594 72	N 32 48 55 74	W 104 9 57 22
	3031 00	9 93	177 08	3006 53	222 06	-219 36	35 05	0 30	11912517 19	1896596 01	N 32 48 55 52	W 104 9 57 21
	3161 00	10 28	177 08	3134 51	244 79	-242 14	36 21	0 27	11912494 42	1896597 18	N 32 48 55 30	W 104 9 57 20
	3291 00	10 02	178 57	3282 48	267 60	-265 03	37 08	0 28	11912471 53	1896598 05	N 32 48 55 07	W 104 9 57 19
	3420 00	8 70	177 61	3389 76	288 48	-286 00	37 77	1 03	11912450 57	1896598 73	N 32 48 54 86	W 104 9 57 18
	3550 00	7 03	179 36	3518 53	306 17	-303 78	38 27	1 30	11912432 80	1896599 23	N 32 48 54 69	W 104 9 57 18
	3636 00	6 66	176 11	3603 91	316 39	-314 03	38 67	0 61	11912422 55	1896599 63	N 32 48 54 58	W 104 9 57 18
	3679 00	5 63	177 78	3646 67	320 99	-318 63	38 92	2 48	11912417 95	1896599 88	N 32 48 54 54	W 104 9 57 17
	3723 00	5 01	182 53	3690 48	325 03	-322 71	38 92	1 73	11912413 87	1896599 88	N 32 48 54 50	W 104 9 57 17
	3768 00	4 13	185 96	3733 34	328 38	-326 12	38 67	2 14	11912410 46	1896599 64	N 32 48 54 46	W 104 9 57 18
	3809 00	3 16	199 76	3776 25	330 94	-328 78	38 11	3 03	11912407 80	1896599 08	N 32 48 54 44	W 104 9 57 18
	3852 00	2 37	206 52	3819 20	332 73	-330 69	37 31	1 98	11912405 89	1896598 28	N 32 48 54 42	W 104 9 57 19
	3896 00	2 29	201 25	3863 17	334 26	-332 32	36 59	0 52	11912404 26	1896597 55	N 32 48 54 40	W 104 9 57 20
	3939 00	2 90	218 48	3906 12	335 77	-333 98	35 60	2 29	11912402 61	1896596 57	N 32 48 54 39	W 104 9 57 21
	3982 00	2 64	238 52	3949 07	336 92	-335 34	34 08	2 32	11912401 24	1896595 05	N 32 48 54 37	W 104 9 57 23
	4025 00	2 20	269 28	3992 04	337 23	-335 87	32 41	3 14	11912400 71	1896593 38	N 32 48 54 37	W 104 9 57 25
	4068 00	2 37	290 90	4035 00	336 71	-335 57	30 75	2 03	11912401 02	1896591 72	N 32 48 54 37	W 104 9 57 27
	4112 00	2 29	289 05	4078 97	335 88	-334 95	29 07	0 25	11912401 63	1896590 04	N 32 48 54 38	W 104 9 57 29
	4155 00	2 64	288 00	4121 93	335 07	-334 37	27 32	0 82	11912402 22	1896588 29	N 32 48 54 38	W 104 9 57 31
	4198 00	2 37	292 57	4164 89	334 20	-333 72	25 56	0 78	11912402 87	1896586 53	N 32 48 54 39	W 104 9 57 33
	4241 00	1 67	311 02	4207 86	333 29	-332 97	24 26	2 20	11912403 62	1896585 23	N 32 48 54 40	W 104 9 57 35
	4285 00	1 49	311 90	4251 84	332 37	-332 16	23 35	0 41	11912404 42	1896584 32	N 32 48 54 41	W 104 9 57 36
	4328 00	1 49	307 33	4294 83	331 55	-331 45	22 49	0 28	11912405 13	1896583 46	N 32 48 54 41	W 104 9 57 37
	4371 00	1 49	310 06	4337 81	330 75	-330 75	21 62	0 17	11912405 83	1896582 59	N 32 48 54 42	W 104 9 57 38
	4414 00	1 58	303 47	4380 80	329 94	-330 07	20 70	0 46	11912406 52	1896581 67	N 32 48 54 43	W 104 9 57 39
	4457 00	1 67	305 31	4423 78	329 13	-329 38	19 69	0 24	11912407 21	1896580 66	N 32 48 54 43	W 104 9 57 40
	4500 00	1 67	303 20	4466 76	328 30	-328 67	18 66	0 14	11912407 91	1896579 63	N 32 48 54 44	W 104 9 57 41
	4544 00	1 67	300 92	4510 74	327 48	-327 99	17 57	0 15	11912408 59	1896578 54	N 32 48 54 45	W 104 9 57 42
	4587 00	1 93	297 40	4553 72	326 68	-327 34	16 39	0 66	11912409 25	1896577 36	N 32 48 54 45	W 104 9 57 44
	4630 00	1 76	298 98	4596 70	325 87	-326 68	15 17	0 41	11912409 90	1896576 14	N 32 48 54 46	W 104 9 57 45
	4673 00	1 76	296 96	4639 68	325 10	-326 06	14 00	0 14	11912410 52	1896574 98	N 32 48 54 47	W 104 9 57 47
	4716 00	1 76	302 32	4682 66	324 31	-325 41	12 85	0 38	11912411 17	1896573 83	N 32 48 54 47	W 104 9 57 48
	4760 00	1 76	301 97	4726 64	323 44	-324 69	11 71	0 02	11912411 89	1896572 69	N 32 48 54 48	W 104 9 57 49
	4803 00	1 93	305 58	4769 62	322 53	-323 92	10 56	0 48	11912412 66	1896571 54	N 32 48 54 49	W 104 9 57 51
	4846 00	1 93	305 58	4812 59	321 54	-323 08	9 38	0 00	11912413 50	1896570 36	N 32 48 54 50	W 104 9 57 52
End MWD Survey	4862 00	2 29	324 21	4828 58	321 07	-322 66	8 98	4 81	11912413 92	1896569 95	N 32 48 54 50	W 104 9 57 52

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
Survey Type	Def Survey											

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
	0 000	14 000	Act Stns	SLB_NSG+SSHOT-Depth Only	Original Hole / ROO 22 State #2 MWD 0' to 276'
	14 000	14 000	Act Stns	SLB_NSG+SSHOT-Depth Only	Original Hole / ROO 22 State #2 MWD 0' to 276'
	14 000	276 000	Act Stns	SLB_NSG+SSHOT	Original Hole / ROO 22 State #2 MWD 0' to 276'
	276 000	4862 000	Act Stns	SLB_MWD-STD	Original Hole / ROO 22 State #2 MWD 276' to 4862'