

Schlumberger

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

RECEIVED**MAY 13 2013**

NAMOOD CITIES

January 22, 2013

Occidental Permian Ltd

5 Greenway Plaza Suite 110

Houston, Texas 77046

Attention: Anthony T Tschacher

Re:

CLIENT: OXY

WELL: GOVERNMENT AB FEDERAL #013

FIELD: Bone Springs

RIG: HP 344

COUNTY: EDDY

API NO: 30-015-40920

JOB NO: NM-OXY-0037

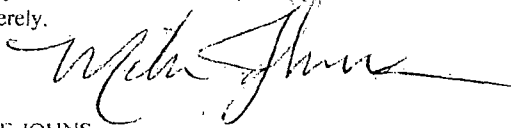
Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation (P-5 No. 754900). Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
MICHAEL PUTNAM FST	GOVERNMENT AB FEDERAL #013 Original Hole	267.00 Ft to 6652.00 Ft	January 11, 2013 to January 22, 2013	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,



MIKE JOHNS

Field Service Manager

CC: OXY

Enclosures: [2]

County of EDDY

State of New Mexico

Reservoir Development

Drilling & Measurements (Extreme Engineering)

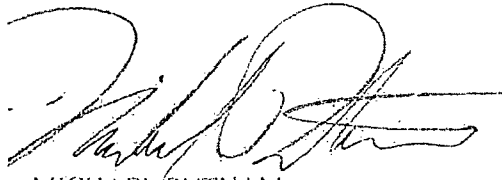
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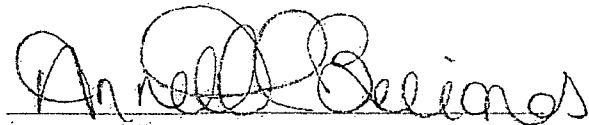
I, MICHAEL PUTNAM certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of January 11, 2013 through January 22, 2013, conduct or supervise the taking of 11 SlimPulse surveys from a depth of 267.00 feet to a depth of 6652.00 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 OXY for the GOVERNMENT A FEDERAL #013 Well (Original Hole) API No. 30-015-40920 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.



MICHAEL PUTNAM
FST

Before me, Annette Briones, on this day personally appeared Michael Putnam, 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 25th day of January, 2013 (year).



Notary Public



OFFICIAL SEAL

ANNETTE BRIONES

NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires 12/01/15

GOVERNMENT AB FEDERAL #013 MWD 0' to 6652' Survey Report

(Def Survey)

Report Date: January 22, 2013 - 04:00 AM
 Client: OXY
 Field: NM, Eddy (NAD27) 2011
 Structure / Slot: OXY (GOVERNMENT AB FEDERAL #013) HP 344 / GOVERNMENT AB FEDERAL #013
 Well: GOVERNMENT AB FEDERAL #013
 Borehole: Original Hole
 UWI / API#: Unknown / 30-015-40920
 Survey Name: GOVERNMENT AB FEDERAL #013 MWD 0' to 6652'
 Survey Date: January 22, 2013
 Tort / AHD / DDI / ERO Ratio: 19.897' / 173.106 ft / 3.537 / 0.026
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 35' 22.92000", W 104° 9' 29.16000"
 Location Grid N/E Y/X: N 578289.000 NUS; E 553970.910 NUS
 CRS Grid Convergence Angle: 0.09438427°
 Grid Scale Factor: 0.99991243

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 0.000° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3301.500 ft above MSL
 Seabed / Ground Elevation: 3285.000 ft above MSL
 Magnetic Declination: 7.855°
 Total Field Strength: 48560.729 nT
 Magnetic Dip Angle: 60.344°
 Declination Date: January 22, 2013
 Magnetic Declination Model: BGGM.2012
 North Reference: Grid North
 Grid Convergence Used: 0.094°
 Total Corr Mag North->Grid North: 7.761°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	578289.00	553970.91	N 32 35 22.92	W 104 9 29.16
Begin MWD Surveys	267.00	0.62	266.56	266.99	-0.09	-0.09	-1.44	0.23	578288.91	553969.47	N 32 35 22.92	W 104 9 29.16
	357.00	2.29	330.06	356.97	1.44	1.44	-2.03	2.32	578290.44	553969.09	N 32 35 22.93	W 104 9 29.19
	597.00	1.40	353.74	596.84	8.51	8.51	-5.54	0.48	578297.51	553965.37	N 32 35 23.00	W 104 9 29.22
	688.00	1.50	357.25	687.81	10.81	10.81	-5.72	0.15	578299.81	553965.19	N 32 35 23.03	W 104 9 29.23
	814.00	1.10	356.64	813.78	13.66	13.66	-5.87	0.32	578302.66	553965.04	N 32 35 23.06	W 104 9 29.23
	918.00	1.00	355.93	917.76	15.56	15.56	-5.99	0.10	578304.56	553964.92	N 32 35 23.07	W 104 9 29.23
	1008.00	1.10	357.25	1007.75	17.21	17.21	-6.09	0.11	578306.21	553964.82	N 32 35 23.09	W 104 9 29.23
	1098.00	1.10	350.18	1097.73	18.92	18.92	-6.28	0.15	578307.92	553964.64	N 32 35 23.11	W 104 9 29.23
	1188.00	1.00	342.97	1187.72	20.53	20.53	-6.65	0.18	578309.52	553964.26	N 32 35 23.12	W 104 9 29.24
	1278.00	1.20	350.66	1277.70	22.21	22.21	-7.04	0.28	578311.20	553963.87	N 32 35 23.14	W 104 9 29.24
	1369.00	1.00	356.24	1368.68	23.94	23.94	-7.24	0.25	578312.94	553963.67	N 32 35 23.16	W 104 9 29.24
	1459.00	1.20	357.08	1458.67	25.66	25.66	-7.34	0.22	578314.66	553963.57	N 32 35 23.17	W 104 9 29.25
	1549.00	1.30	347.67	1548.65	27.60	27.60	-7.61	0.25	578316.60	553963.30	N 32 35 23.19	W 104 9 29.25
	1639.00	1.00	345.26	1638.63	29.36	29.36	-8.03	0.34	578318.36	553962.80	N 32 35 23.21	W 104 9 29.25
	1729.00	1.10	345.26	1728.61	30.95	30.95	-8.45	0.11	578319.95	553962.47	N 32 35 23.23	W 104 9 29.26
	1819.00	1.30	346.66	1818.59	32.78	32.78	-8.90	0.22	578321.78	553962.01	N 32 35 23.24	W 104 9 29.26
	1909.00	1.20	355.38	1908.57	34.72	34.72	-9.21	0.24	578323.71	553961.70	N 32 35 23.26	W 104 9 29.27
	1999.00	1.19	349.96	1998.55	36.31	36.31	-9.42	0.15	578325.30	553961.49	N 32 35 23.28	W 104 9 29.27
	2089.00	1.40	357.34	2088.53	38.62	38.62	-9.66	0.26	578327.61	553961.25	N 32 35 23.31	W 104 9 29.27
	2179.00	1.20	344.06	2178.50	40.62	40.62	-9.97	0.40	578329.62	553960.94	N 32 35 23.32	W 104 9 29.28
	2270.00	1.30	357.56	2269.48	42.57	42.57	-10.28	0.34	578331.57	553960.63	N 32 35 23.34	W 104 9 29.28
	2361.00	1.30	353.46	2360.46	44.63	44.63	-10.44	0.10	578333.62	553960.47	N 32 35 23.36	W 104 9 29.28
	2452.00	1.41	353.04	2450.45	45.66	45.66	-10.56	0.25	578334.66	553960.35	N 32 35 23.37	W 104 9 29.28
	2517.00	1.40	347.85	2516.41	48.36	48.36	-11.02	0.11	578337.36	553959.89	N 32 35 23.40	W 104 9 29.29
	2591.00	1.50	344.66	2590.39	50.18	50.18	-11.46	0.17	578339.18	553959.45	N 32 35 23.42	W 104 9 29.29
	2766.00	1.50	344.47	2765.33	54.60	54.60	-12.67	0.01	578343.60	553958.24	N 32 35 23.46	W 104 9 29.31
	2856.00	1.41	343.94	2855.30	56.80	56.80	-13.29	0.10	578345.79	553957.62	N 32 35 23.48	W 104 9 29.31
	2946.00	1.20	348.96	2945.28	58.78	58.78	-13.81	0.25	578347.78	553957.10	N 32 35 23.50	W 104 9 29.32
	3112.00	1.41	347.68	3111.23	62.47	62.47	-14.64	0.13	578351.47	553956.27	N 32 35 23.54	W 104 9 29.33
	3202.00	1.19	343.55	3201.21	64.45	64.45	-15.14	0.27	578353.44	553955.77	N 32 35 23.56	W 104 9 29.34
	3292.00	1.30	341.66	3291.19	66.31	66.31	-15.73	0.13	578355.31	553955.18	N 32 35 23.58	W 104 9 29.34
	3383.00	1.49	335.68	3382.16	68.37	68.37	-16.54	0.26	578357.37	553954.37	N 32 35 23.60	W 104 9 29.35
	3473.00	1.58	335.37	3472.13	70.57	70.57	-17.54	0.10	578359.56	553953.37	N 32 35 23.62	W 104 9 29.36
	3563.00	1.80	331.45	3562.09	72.94	72.94	-18.73	0.28	578361.93	553952.18	N 32 35 23.64	W 104 9 29.38
	3653.00	2.02	325.97	3652.04	75.49	75.49	-20.29	0.32	578364.49	553950.62	N 32 35 23.67	W 104 9 29.40
	3834.00	2.02	327.77	3832.63	80.63	80.63	-23.78	0.04	578368.83	553947.13	N 32 35 23.72	W 104 9 29.44
	4014.00	2.81	324.78	4012.77	87.12	87.12	-28.02	0.44	578378.11	553942.90	N 32 35 23.78	W 104 9 29.49
	4194.00	2.42	334.14	4192.58	94.15	94.15	-32.22	0.32	578383.14	553938.69	N 32 35 23.85	W 104 9 29.53
	4374.00	1.71	341.75	4372.46	100.12	100.12	-34.72	0.42	578389.11	553936.20	N 32 35 23.91	W 104 9 29.56
	4555.00	1.89	338.58	4553.37	105.46	105.46	-36.65	0.11	578394.45	553934.26	N 32 35 23.96	W 104 9 29.59
	4736.00	1.89	356.38	4734.28	111.22	111.22	-37.93	0.32	578400.21	553932.98	N 32 35 24.02	W 104 9 29.60
	4916.00	2.02	356.45	4914.17	117.35	117.35	-38.21	0.08	578406.34	553932.71	N 32 35 24.08	W 104 9 29.60
	5096.00	2.50	7.06	5094.03	124.42	124.42	-37.81	0.33	578413.41	553933.11	N 32 35 24.15	W 104 9 29.60
	5276.00	2.02	338.85	5273.90	131.27	131.27	-38.47	0.66	578420.26	553932.44	N 32 35 24.22	W 104 9 29.61
	5457.00	2.42	334.67	5454.76	137.70	137.70	-41.26	0.24	578426.69	553929.66	N 32 35 24.28	W 104 9 29.64
	5637.00	2.29	331.86	5634.81	144.31	144.31	-44.58	0.10	578433.30	553928.34	N 32 35 24.35	W 104 9 29.68
	5818.00	1.19	290.68	5815.53	148.16	148.16	-48.04	0.88	578437.15	553922.87	N 32 35 24.39	W 104 9 29.72
	5998.00	1.19	156.08	5995.51	147.11	147.11	-49.03	1.22	578436.10	553921.88	N 32 35 24.38	W 104 9 29.73
	6178.00	0.88	168.07	6175.48	144.05	144.05	-47.96	0.21	578433.04	553922.62	N 32 35 24.35	W 104 9 29.72
	6358.00	0.88	171.28	6355.46	141.33	141.33	-47.49	0.03	578430.32	553923.42	N 32 35 24.32	W 104 9 29.71
	6539.00	0.79	179.85	6536.44	138.71	138.71	-47.28	0.08	578427.70	553923.63	N 32 35 24.29	W 104 9 29.71
End MWD Surveys	6652.00	0.88	184.38	6649.43	137.07	137.07	-47.34	0.10	578426.05	553923.57	N 32 35 24.28	W 104 9 29.71

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	16.500	Act Strs	SLB_MWD-STD-Depth Only	Original Hole / GOVERNMENT AB FEDERAL #013 MWD 0' to 6652'
	16.500	16.500	Act Strs	SLB_MWD-STD-Depth Only	Original Hole / GOVERNMENT AB FEDERAL #013 MWD 0' to 6652'

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 ° ' ")
	16 500		6652 000	Act Sins	SLB_MWD-STD				Original Hole / GOVERNMENT AB FEDERAL #013 MWD 0' to 6652'			