

Oilfield Services, Central U.S. Land

Schlumberger

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

30-015-40675

December 11, 2012

Occidental Permian Ltd

5 Greenway Plaza Suite 110

Houston, Texas 77046

RECEIVED

MAY 13 2013

NMOCD ARTESIA

Attention: Anthony Tschacher

Re:

CLIENT: OXY Permian
WELL: Chris Robin 20 Fed 10
FIELD: Permian Basin
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-40675
JOB NO: NM-OXY-0022

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).

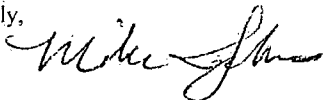
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Tim Daws FST-I	Chris Robin 20 Fed 10 Original Hole	131.00 Ft to 4772.00 Ft	November 13, 2012 to November 18, 2012	SlimPulse

A plat of 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 above letterhead and phone number.

Sincerely,



Mike Johns
Field Service Manager

CC: OXY Permian

Enclosures: [2]

County of Eddy

State of New Mexico

Reservoir Development

Drilling & Measurements (Extreme Engineering)

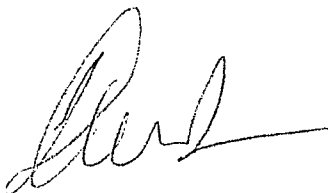
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Fort Worth, TX 76126

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Fax: (817) 546-7551

I, Tim Daws certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of November 13, 2012 through November 18, 2012, conduct or supervise the taking of the SlimPulse surveys from a depth of 131.00 feet to a depth of 4772.00 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 Permain for the Chris Robin 20 Fed 10 Well (Original Hole) API No. 30-015-40675 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.

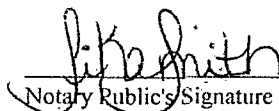
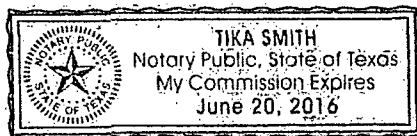


Tim Daws

FST-1

Before me, a notary public, on this day personally appeared Tim Daws, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statements therein contained are true and correct.

Given under my hand and seal of office this 12th day of December, 2012.


Notary Public's Signature

CHRIS ROBIN 20 FED 10 MWD 0' to 4772' Survey Report

(Per Survey)

Report Date: November 18, 2012 - 07:45 AM
 Client: Eddy (NA027) 2011
 Field: OGC PERKIN (CHRIS ROBIN 20 FED 10) SAVANNA 415 / CHRIS ROBIN 20 FED 10
 Structure / Site: CHRIS ROBIN 20 FED 10
 Well: Original Hole
 Bioprobe: Unknown / 3015-6075
 UMI / PMP: CHRIS ROBIN 20 FED 10 MWD 0' to 4772'
 Survey Name: November 18, 2012
 Survey Date: 14.61371115 236.173 235.10 024
 Tor / AHD / DOJ / ERD Ratio: NA027 Universal Transverse Mercator, Zone 13 North, US Feet
 Location Reference System: N 32° 49' 18.84000" W 104° 12' 00.00000"
 Location Lat / Long: N 11913792.112 (NUS), E 1889102.182 (NUS)
 Location Grid NIE YX:
 CRS Grid Convergence Angle: 0.43964975°
 Grid Scale Factor: 0.99999915

Survey / DLS Computation:
 Vertical Section Azimuth:
 Vertical Section Origin:
 TWD Reference Datum:
 TWD Reference Elevation:
 Scaled / Ground Elevation:
 Magnetic Declination:
 Total Field Strength:
 Magnetic Dip Angle:
 Declination Date:
 Magnetic Declination Model:
 North Reference:
 Grid Convergence Used:
 Total Corr Mag North-Grid North:
 Local Grid Referenced To: Structure Reference Point

Minimum Curvature / Luthers
 0.000° (Grid North)
 0.000 ft, 0.000 ft

RKB
 3635.000 ft above Unknown
 3621.000 ft above Unknown
 7.084°
 49.745, 407 nT
 60.545°

November 18, 2012
 BOGM 2011
 Grid 15m
 0.072°

7.817°

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TWD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft)	Northing (ft)	Eastng (ft)	Latitude (N)	Longitude (W)
Surface	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	1/4"	11914782.17	1889102.18	N 32° 49' 18.84"	W 104° 12' 0.00"
Begin MWD	131.00	0.22	318.12	131.00	0.16	0.19	-0.16	0.17	11914782.30	1889102.02	N 32° 49' 18.84"	W 104° 12' 0.00"
Surveys	389.00	1.71	264.10	288.87	0.16	0.18	-2.71	1.01	11914782.26	1889099.48	N 32° 49' 18.84"	W 104° 12' 0.00"
	485.00	2.42	80.41	464.83	0.53	0.53	-1.66	2.35	11914782.64	1889100.55	N 32° 49' 18.84"	W 104° 12' 0.02"
	646.00	2.26	246.20	645.86	-0.12	-0.12	-1.27	2.59	11914781.98	1889100.62	N 32° 49' 18.84"	W 104° 12' 0.01"
	830.00	2.02	249.20	829.75	-2.58	-2.58	-7.74	0.15	11914780.53	1889104.45	N 32° 49' 18.82"	W 104° 12' 0.09"
	895.00	1.71	248.18	894.66	-4.53	-4.53	-12.74	0.19	11914781.59	1889098.45	N 32° 49' 18.80"	W 104° 12' 0.15"
	1170.00	1.41	256.32	1169.80	-6.00	-6.00	-17.25	0.21	11914786.11	1889093.94	N 32° 49' 18.78"	W 104° 12' 0.44"
	1341.00	1.41	259.09	1340.55	-6.90	-6.90	-21.37	0.04	11914785.21	1889090.63	N 32° 49' 18.77"	W 104° 12' 0.50"
	1515.00	1.19	255.00	1514.50	-7.77	-7.77	-26.21	0.14	11914784.34	1889076.98	N 32° 49' 18.76"	W 104° 12' 0.30"
	1701.00	1.49	256.41	1700.45	-8.84	-8.84	-28.49	0.16	11914783.27	1889070.77	N 32° 49' 18.75"	W 104° 12' 0.35"
	1892.00	1.46	251.78	1891.40	-9.69	-9.69	-33.45	0.07	11914782.13	1889068.75	N 32° 49' 18.74"	W 104° 12' 0.39"
	2056.00	1.46	260.23	2055.34	-11.08	-11.08	-37.83	0.13	11914781.04	1889064.37	N 32° 49' 18.73"	W 104° 12' 0.44"
	2210.00	1.58	256.18	2209.27	-12.03	-12.03	-42.30	0.08	11914780.06	1889059.61	N 32° 49' 18.72"	W 104° 12' 0.50"
	2290.00	1.58	263.40	2289.21	-12.86	-12.86	-46.99	0.12	11914779.25	1889055.21	N 32° 49' 18.72"	W 104° 12' 0.56"
	2563.00	1.41	265.11	2562.15	-13.35	-13.35	-51.74	0.10	11914778.77	1889050.46	N 32° 49' 18.71"	W 104° 12' 0.61"
	2725.00	1.32	266.91	2724.10	-13.82	-13.82	-56.59	0.06	11914778.50	1889046.61	N 32° 49' 18.70"	W 104° 12' 0.65"
	2898.00	1.19	263.53	2897.06	-13.83	-13.83	-59.37	0.09	11914778.19	1889042.84	N 32° 49' 18.71"	W 104° 12' 0.70"
	3072.00	1.10	261.33	3071.03	-14.38	-14.38	-62.81	0.06	11914777.74	1889038.40	N 32° 49' 18.70"	W 104° 12' 0.74"
	3243.00	1.41	265.11	3241.98	-14.81	-14.81	-66.53	0.19	11914777.31	1889035.68	N 32° 49' 18.70"	W 104° 12' 0.78"
	3417.00	1.41	269.02	3415.93	-15.03	-15.03	-70.81	0.06	11914776.08	1889031.41	N 32° 49' 18.70"	W 104° 12' 0.83"
	3596.00	1.41	276.21	3594.90	-14.76	-14.76	-75.02	0.13	11914775.36	1889027.20	N 32° 49' 18.70"	W 104° 12' 0.86"
	3781.00	1.58	280.93	3780.82	-14.01	-14.01	-79.44	0.11	11914778.11	1889023.76	N 32° 49' 18.71"	W 104° 12' 0.93"
	3964.00	1.41	277.33	3962.76	-13.29	-13.29	-83.66	0.11	11914778.63	1889019.92	N 32° 49' 18.72"	W 104° 12' 1.03"
	4107.00	1.49	281.72	4106.71	-12.56	-12.56	-88.21	0.08	11914779.58	1889016.01	N 32° 49' 18.72"	W 104° 12' 1.03"
	4261.00	1.41	279.61	4279.55	-11.74	-11.74	-92.53	0.06	11914780.38	1889008.69	N 32° 49' 18.73"	W 104° 12' 1.06"
	4463.00	1.32	285.10	4461.60	-10.82	-10.82	-99.76	0.09	11914781.29	1889005.46	N 32° 49' 18.74"	W 104° 12' 1.13"
	4636.00	1.41	283.61	4634.56	-9.80	-9.80	-100.76	0.06	11914782.31	1889001.47	N 32° 49' 18.75"	W 104° 12' 1.13"
	4772.00	1.41	283.30	4770.51	-9.02	-9.02	-104.01	0.01	11914783.09	1889598.21	N 32° 49' 18.76"	W 104° 12' 1.22"

Survey Type:

Del Survey

Survey Error Model: ISCOVSA Rev 0 *** 3-D 95.000% Confidence 2.7965 sigma
 Survey Program: MD From MD To EOU From

Description	MD From (ft)	MD To (ft)	EOU From (ft)	Survey Tool Type
	0.000	14.000	14.000	SUB_MWD-ST-Depth Only
	14.000	4772.000	4770.51	SUB_MWD-ST-Depth Only

Borehole / Survey

Original Hole / CHRIS ROBIN 20 FED 10 MWD 0' to 4772'
 Original Hole / CHRIS ROBIN 20 FED 10 MWD 0' to 4772'
 Original Hole / CHRIS ROBIN 20 FED 10 MWD 0' to 4772'

Drilling Office 2.5.1100.0

CHRIS ROBIN 20 FED 10 Original Hole / CHRIS ROBIN 20 FED 10 MWD 0' to 4772'

Drilling Office 2.5.1100.0

CHRIS ROBIN 20 FED 10 Original Hole / CHRIS ROBIN 20 FED 10 MWD 0' to 4772'

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