

Reservoir Development
Drilling & Measurements (Extreme Engineering)
6724 Corporation Pkwy Suite 100
Fort Worth, TX 76126
Phone: (817) 717-1820
Fax: (817) 546-7551

February 24, 2014

Occidental Permian Ltd
5 Greenway Plaza Suite 110
Houston, Texas 77046

Attention: Kacie Cruz

Re:

CLIENT: Oxy
WELL: Tigger 9 State 9
FIELD: Glorieta Yeso
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-40940
JOB NO: NM-OXY-0091

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>
Stephen Dudzik Field Service Manager	Tigger 9 State 9 Original Hole	430.00 Ft to 5243.00 Ft	January 15, 2014 to January 22, 2014	SlimPulse

A copy of the Survey Report is attached.

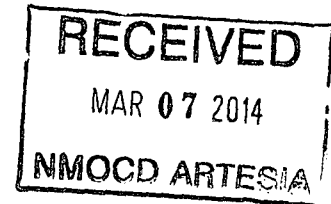
If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Thomas Barker
Field Service Manager

CC: Oxy
Enclosures: [2]
County of Eddy
State of New Mexico

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I, Stephen Dudzik 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 15, 2014 through January 22, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 430.00 feet to a depth of 5243.00 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 Tigger 9 State 9 Well (Original Hole) API No. 30-015-40940 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.



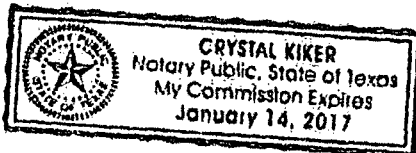
Stephen Dudzik

Stephen Dudzik
Field Service Manager

Before me, Crystal K. Kiker, on this day personally appeared Stephen Dudzik, 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 24th day of FEB, 2014 (year).

Crystal K. Kiker
Notary Public



Tigger 9 State 9 MWD 430' to 5243' Survey Geodetic Report

(Def Survey)

Report Date: February 21, 2014 - 09:34 AM
 Client: CXY
 Field: NM, Eddy (NAD83 EZ) 2014
 Structure / Slot: Oxy (Tigger 9 State 9) Savanna 415 / Tigger 9 State 9
 Well: Tigger 9 State 9
 Borehole: Original Hole
 UTM / API#: NAD83 UTM Zone 18Q UTM 30Q15 40940
 Survey Name: Tigger 9 State 9 MWD 430' to 5243'
 Survey Date: January 22, 2014
 Ton / AHD / ODI / ERD Ratio: 24.366' / 794.348' / 3.856' / 0.056
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 50' 34.4000", W 104° 4' 22.6800"
 Location Grid N/E Y/X: N 670478 790 NUS, E 621352 277 NUS
 CRS Grid Convergence Angle: 0.1413°
 Grid Scale Factor: 0.99991942
 Version / Patch: 2.7.998.0

Survey / DLS Computation: Minimum Curvature / Lukinski
 Vertical Section Azimuth: 4.000° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3578.000 ft above Unknown
 Seabed / Ground Elevation: 3584.000 ft above Unknown
 Magnetic Declination: 7.665°
 Total Gravity Field Strength: 938.5313 mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 45848.666 nT
 Magnetic Dip Angle: 60.599°
 Declination Date: January 22, 2014
 Magnetic Declination Model: BGGM 2013
 North Reference: Grid North
 Grid Convergence Used: 0.1413°
 Total Corr Mag North -> Grid North: 7.7437°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	670478.79	621352.28	N 32° 50' 34.44" W 104° 4' 22.08"	
Begin MWD Surveys	430.00	4.05	53.45	429.53	9.97	9.14	12.32	0.55	670487.93	621364.60	N 32° 50' 34.53" W 104° 4' 21.94"	
	581.00	3.38	53.93	580.31	16.34	14.96	20.35	0.47	670493.75	621377.52	N 32° 50' 34.56" W 104° 4' 21.84"	
	733.00	2.59	52.35	732.11	21.51	19.70	26.59	0.52	670498.49	621378.86	N 32° 50' 34.05" W 104° 4' 21.77"	
	885.00	0.70	55.66	884.05	22.97	20.95	29.69	1.86	670499.74	621381.97	N 32° 50' 34.55" W 104° 4' 21.73"	
	1038.00	0.70	117.05	1007.04	22.02	19.93	30.67	0.38	670498.71	621382.94	N 32° 50' 34.64" W 104° 4' 21.72"	
	1181.00	0.21	139.45	1180.04	21.27	10.69	31.92	0.25	670497.88	621384.19	N 32° 50' 34.63" W 104° 4' 21.71"	
	1354.00	2.42	114.44	1352.98	19.66	17.22	35.55	1.24	670496.01	621387.82	N 32° 50' 34.61" W 104° 4' 21.66"	
	1526.00	2.29	102.53	1524.84	17.85	14.97	42.21	0.29	670493.76	621394.48	N 32° 50' 34.59" W 104° 4' 21.56"	
	1698.00	1.60	109.12	1696.73	16.67	13.34	48.11	0.32	670492.13	621400.39	N 32° 50' 34.57" W 104° 4' 21.52"	
	1872.00	3.21	93.52	1870.56	16.00	12.15	55.50	0.89	670490.94	621407.83	N 32° 50' 34.56" W 104° 4' 21.43"	
	2045.00	3.12	93.44	2043.29	16.05	11.57	65.09	0.05	670490.36	621417.36	N 32° 50' 34.55" W 104° 4' 21.32"	
	2218.00	3.51	82.76	2215.97	17.28	12.03	75.64	0.59	670490.92	621427.91	N 32° 50' 34.56" W 104° 4' 21.19"	
	2390.00	4.61	58.05	2387.49	19.38	13.25	86.36	0.43	670492.03	621440.63	N 32° 50' 34.57" W 104° 4' 21.04"	
	2563.00	4.70	58.95	2559.92	20.66	13.35	102.38	0.15	670492.64	621454.05	N 32° 50' 34.56" W 104° 4' 20.88"	
	2736.00	4.61	92.03	2732.35	21.83	13.74	116.41	0.15	670492.53	621468.68	N 32° 50' 34.57" W 104° 4' 20.72"	
	2909.00	4.31	91.94	2904.83	22.30	13.27	126.86	0.17	670492.06	621482.12	N 32° 50' 34.57" W 104° 4' 20.56"	
	3082.00	3.78	93.44	3077.40	22.58	12.71	142.05	0.31	670491.50	621494.31	N 32° 50' 34.56" W 104° 4' 20.41"	
	3254.00	3.18	92.25	3249.02	22.82	12.15	153.37	0.06	670490.94	621505.84	N 32° 50' 34.56" W 104° 4' 20.28"	
	3427.00	3.35	87.94	3421.86	23.53	12.11	164.17	0.28	670490.80	621516.43	N 32° 50' 34.56" W 104° 4' 20.16"	
	3600.00	2.93	90.36	3594.42	24.35	12.26	173.78	0.24	670491.05	621526.04	N 32° 50' 34.56" W 104° 4' 20.04"	
	3773.00	4.48	87.46	3767.04	25.41	12.53	185.04	0.87	670491.32	621537.30	N 32° 50' 34.56" W 104° 4' 19.91"	
	3945.00	5.19	87.44	3938.43	25.71	11.82	195.46	0.64	670490.61	621551.72	N 32° 50' 34.55" W 104° 4' 19.74"	
	4118.00	4.92	100.25	4116.76	24.43	9.49	214.52	0.21	670488.28	621565.78	N 32° 50' 34.53" W 104° 4' 19.57"	
	4463.00	4.09	106.65	4454.70	19.50	2.72	243.67	0.32	670481.51	621592.97	N 32° 50' 34.46" W 104° 4' 19.20"	
	4636.00	2.99	118.13	4627.37	15.89	-1.48	250.46	0.70	670477.31	621602.71	N 32° 50' 34.42" W 104° 4' 19.14"	
	4809.00	3.21	115.76	4800.11	12.35	-5.71	258.80	0.15	670473.08	621611.05	N 32° 50' 34.35" W 104° 4' 19.05"	
	4981.00	3.12	110.53	4971.85	9.24	-9.45	267.52	0.18	670469.34	621619.77	N 32° 50' 34.34" W 104° 4' 18.94"	
	5154.00	2.96	110.14	5144.60	6.64	-12.65	276.16	0.06	670465.14	621628.42	N 32° 50' 34.31" W 104° 4' 18.84"	
END MWD Surveys	5243.00	3.12	111.06	5233.48	5.79	-14.32	280.60	0.16	670464.47	621632.86	N 32° 50' 34.29" W 104° 4' 18.79"	

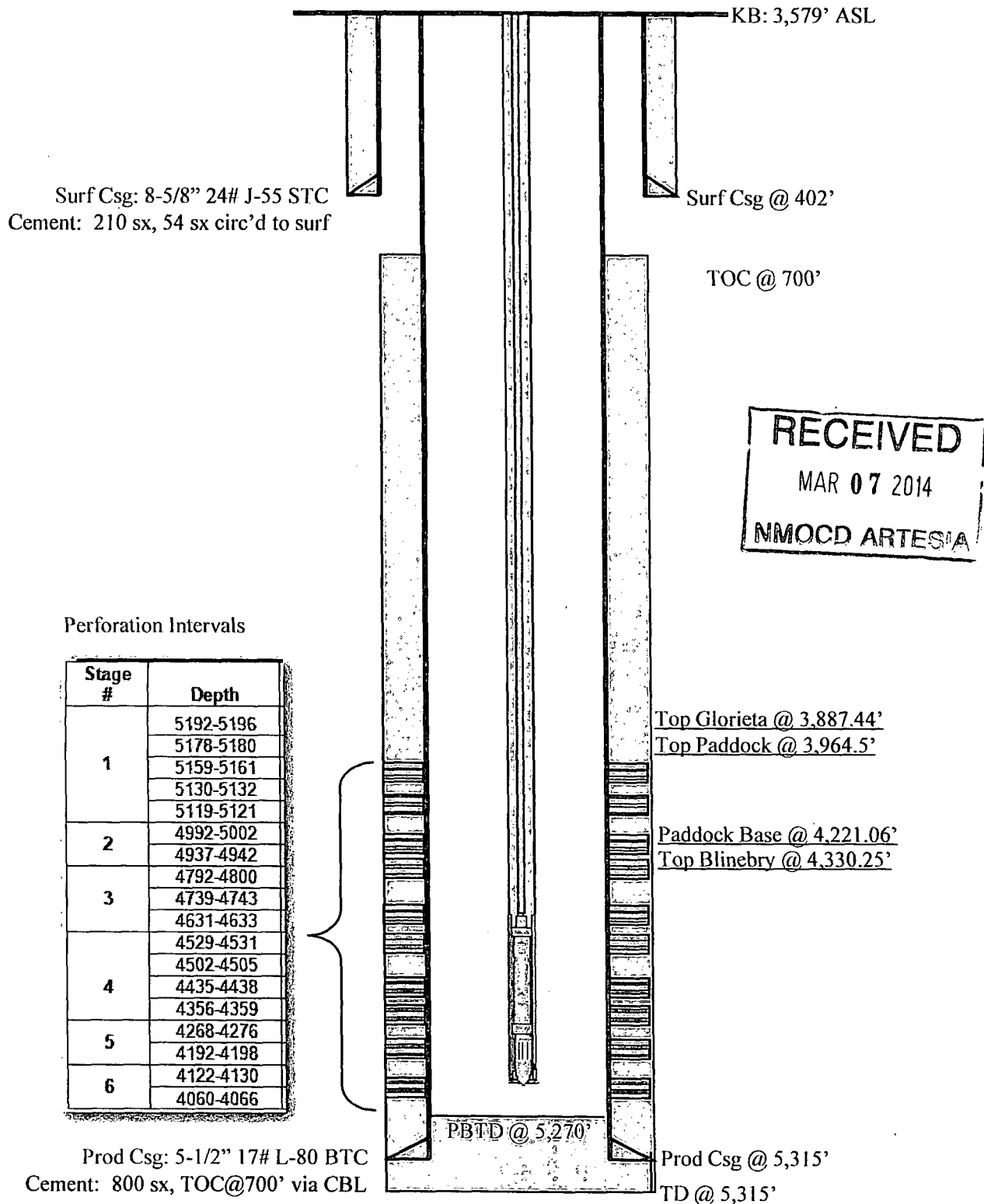
Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0.111 3-D 95.000% Confidence 2.7655 sigma
 Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	14.000	Act Sns	30.000	30.000	SLB_MWD-STD-Depth Only	Original Hole / Tigger 9 State 9 MWD 430' to 5243'
	1	14.000	430.000	1/98 425	30.000	30.000	SLB_MWD-STD	Original Hole / Tigger 9 State 9 MWD 430' to 5243'
	1	430.000	4118.000	Act Sns	30.000	30.000	SLB_MWD-STD	Original Hole / Tigger 9 State 9 MWD 430' to 5243'
	1	4118.000	4463.000	1/98 425	30.000	30.000	SLB_MWD-STD	Original Hole / Tigger 9 State 9 MWD 430' to 5243'
	1	4463.000	5243.000	Act Sns	30.000	30.000	SLB_MWD-STD	Original Hole / Tigger 9 State 9 MWD 430' to 5243'

Occidental Oil & Gas Corp – Permian Primary – North NM/Terrell RMT

Well: Tigger 9 State #9		API: 30-015-40940	
State: New Mexico	County: Eddy	T17S R29E, Sec 9	420' FSL & 620' FEL
Field: Empire	TD: 5,315'	PBTD: 5,270'	KB: 3,579' ASL
Casing Size:	Grade/Weight:	Depth:	Cement:
8-5/8"	J-55 STC/ 24#	402'	210 sx, 54 sx circ'd to surf
5-1/2"	L-80 BTC / 17#	5,315'	800 sx, TOC@700'



RECEIVED
 MAR 07 2014
 NMOCD ARTESIA