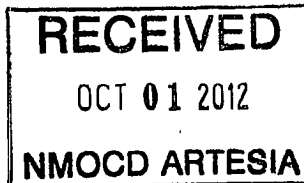


30-015-39652



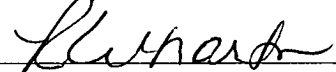
OCCIDENTAL PERMIAN LTD.

Empire
Eddy County, NM
Roo 22 State #6
VH - Job #32K0712911

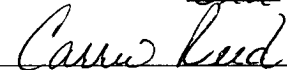
Survey: Gyro

SDI Standard Survey Report

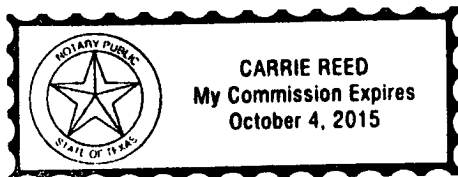
This survey is correct to the best of my knowledge and is supported by actual field data.



Notarized this date 3rd of August, 2012.



Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Roo 22 State #6
Project:	Empire	TVD Reference:	WELL @ 0 00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Well:	Roo 22 State #6	North Reference:	Grid
Wellbore:	VH - Job #32K0712911	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0712911	Database:	EDM-Regulatory

Project	Empire		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Eddy County, NM		
Site Position:		Northing:	661,012 36 usft
From:	Lat/Long	Easting:	549,289 58 usft
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 49' 1 589 N
		Longitude:	104° 10' 22 415 W
		Grid Convergence:	0 09 °

Well	Roo 22 State #6, Directional (Weatherford)		
Well Position	+N/-S	0 00 usft	Northing: 662,961 94 usft
	+E/-W	0 00 usft	Easting: 550,903 40 usft
Position Uncertainty	0 00 usft	Wellhead Elevation:	usft
		Latitude:	32° 49' 20 856 N
		Longitude:	104° 10' 3.468 W
		Ground Level:	0 00 usft

Wellbore	VH - Job #32K0712911				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/22/12	7 77	60 61	48,826

Design	VH - Job #32K0712911			
Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 00	0 00	0 00	252 48

Survey Program	Date	08/12/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
103 00	385 00	Gyro (VH - Job #32K0712911)	Keeper	Keeper Surface Readout

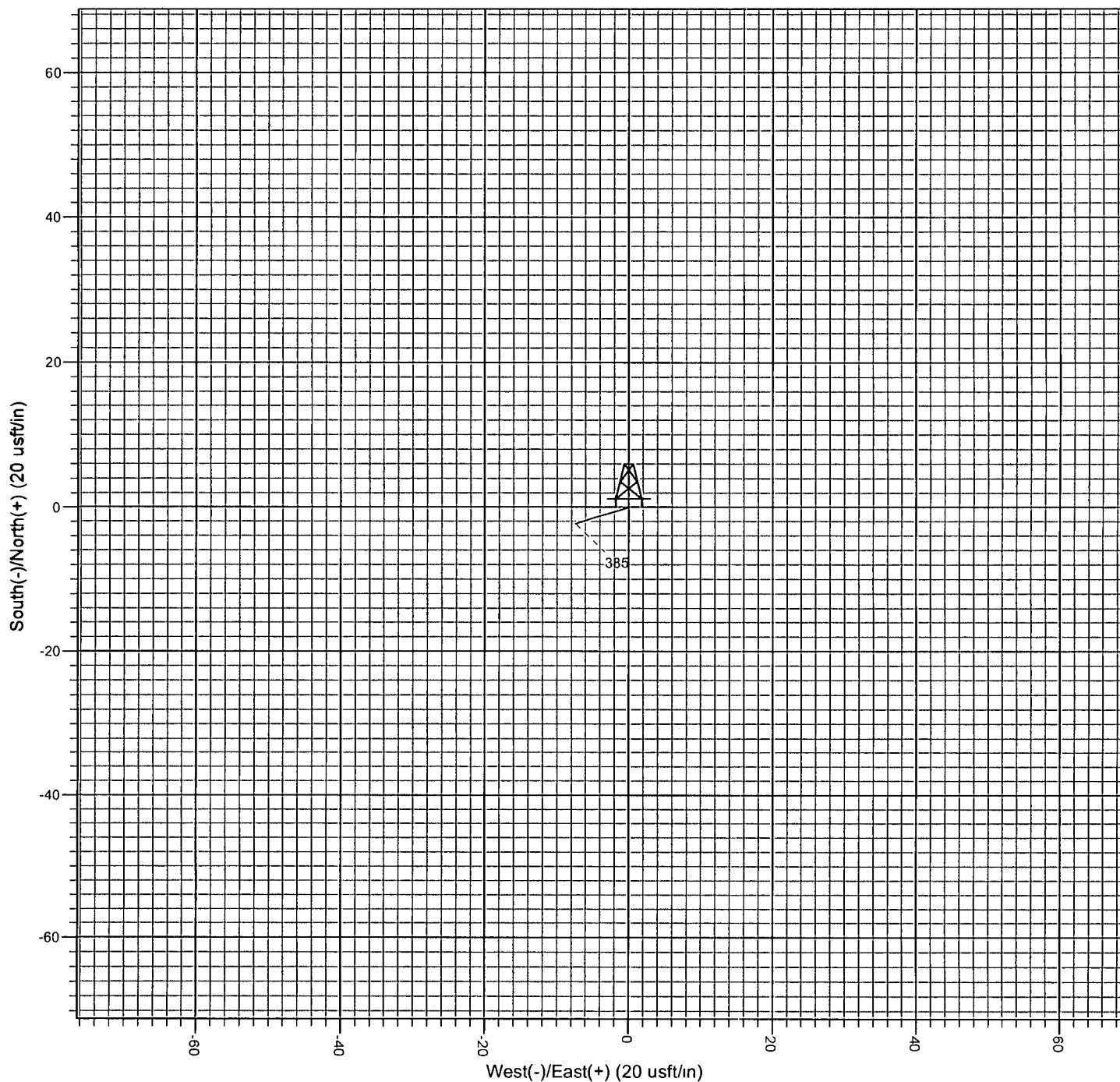
Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
103 00	0 76	247 74	103 00	-0 26	-0 63	247 74	0 68	
197 00	1 59	256 81	196 98	-0 79	-2 48	252 27	2 60	
291 00	1 54	252 26	290 94	-1 47	-4 95	253 41	5 17	
385 00	1 57	248 96	384 91	-2 32	-7 36	252 48	7 71	



Project: Empire
Eddy County, NM
Well: Roo 22 State #6
Wellbore: VH - Job #32K0712911
Design: VH - Job #32K0712911

WELL DETAILS: Roo 22 State #6
WELL @ 0.00usft (Original Well Elev)
Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	662961.94	550903.40	32° 49' 20.856 N	104° 10' 3.468 W	



PROJECT DETAILS: Empire	SITE DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 49' 1.589 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 104° 10' 22.415 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.00
Zone: New Mexico East 3001	Convergence: 0.09
System Datum: Mean Sea Level	Local North: Grid

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

30015-39652

August 1, 2012

Occidental Permian Ltd

5 Greenway Plaza Suite 110

Houston, Texas 77046

Attention: Luis Tarazona

Re:

CLIENT: OXY Permain
WELL: ROO 22 State #6
FIELD: Permain Basin
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-39652
JOB NO: NM-OXY-0007

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 #6 Original Hole	458.00 Ft to 4854.00 Ft	July 23, 2012 to July 31, 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: OXY Permain
Enclosures: [2]
County of Eddy
State of New Mexico

Reservoir Development

Drilling & Measurements (Extreme Engineering)

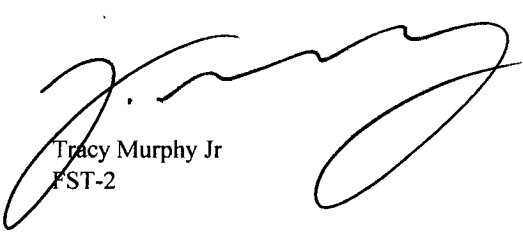
6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

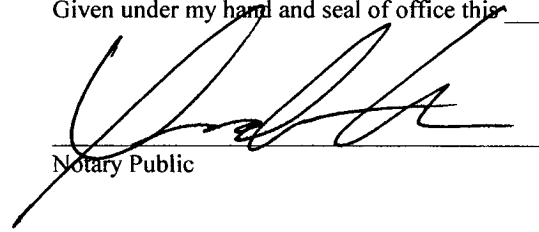
Fax: (817) 546-7551

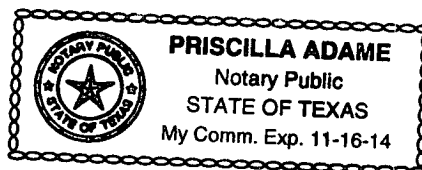
I, Tracy Murphy Jr certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of July 23, 2012 through July 31, 2012, conduct or supervise the taking of the SlimPulse surveys from a depth of 458.00 feet to a depth of 4854.00 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 ROO 22 State #6 Well (Original Hole) API No. 30-015-39652 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
EST-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 #6 MWD 385' to 4905' Survey Report

(Def Survey)

Report Date: July 31, 2012 - 12 00 PM
 Client: Oxy Permian
 Field: Eddy (NAD27) 2011
 Structure / Slot: Oxy Permian (ROO 22 State #6) Savanna 415 / ROO 22 State #6
 Well: ROO 22 State #6
 Borehole: Original Hole
 UWI / API#: NM-OXY-0007 / 30-015-39652
 Survey Name: ROO 22 State #6 MWD 385' to 4905'
 Survey Date: July 31, 2012
 Tort / AHD / DDI / ERD Ratio: 15 536 * / 227 140 ft / 3 549 / 0 047
 Coordinate Reference System: NAD27 Universal Transverse Mercator, Zone 13 North, US Feet
 Location Lat / Long: N 32° 49' 19 75224", W 104° 10' 0 89508"
 Location Grid N/E Y/X: N 11914962 770 ftUS, E 1896262 293 ftUS
 CRS Grid Convergence Angle: 0 45158234 °
 Grid Scale Factor: 0 99967498

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 89 560 ° (Grnd North)
 Vertical Section Origin: 0 000 ft, 0 000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3594 400 ft above Unknown
 Seabed / Ground Elevation: 3580 400 ft above Unknown
 Magnetic Declination: 7 891 °
 Total Field Strength: 48786 092 nT
 Magnetic Dip Angle: 60 575 °
 Declination Date: July 31, 2012
 Magnetic Declination Model: BGGM 2012
 North Reference: Grnd North
 Grid Convergence Used: 0 090 °
 Total Corr Mag North->Grid North: 7 801 °
 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	385 00	1 57	248 96	384 91	-7 37	-2 32	-7 36	0 10	11914960 45	1896254 94	N 32 49 19 73	W 104 10 0 98
Begin MWD Survey	458 00	1 49	257 32	457 88	-9 24	-2 89	-9 22	0 32	11914959 88	1896253 08	N 32 49 19 72	W 104 10 1 00
	549 00	1 58	262 33	548 85	-11 64	-3 32	-11 61	0 18	11914959 45	1896250 68	N 32 49 19 72	W 104 10 1 03
	639 00	1 58	257 32	638 81	-14 08	-3 75	-14 05	0 15	11914958 02	1896248 24	N 32 49 19 72	W 104 10 1 06
	731 00	1 76	256 18	730 77	-16 70	-4 37	-16 66	0 20	11914958 40	1896245 64	N 32 49 19 71	W 104 10 1 09
	821 00	0 09	78 03	820 76	-17 97	-4 69	-17 94	2 06	11914958 09	1896244 36	N 32 49 19 71	W 104 10 1 11
	913 00	0 62	49 20	912 76	-17 52	-4 35	-17 49	0 59	11914958 43	1896244 81	N 32 49 19 71	W 104 10 1 10
	1043 00	0 53	53 68	1042 75	-16 50	-3 53	-16 47	0 08	11914959 24	1896245 83	N 32 49 19 72	W 104 10 1 09
	1173 00	0 44	76 36	1172 75	-15 53	-3 06	-15 50	0 16	11914959 71	1896246 80	N 32 49 19 72	W 104 10 1 08
	1302 00	0 44	60 01	1301 74	-14 61	-2 69	-14 59	0 10	11914960 08	1896247 71	N 32 49 19 73	W 104 10 1 07
	1432 00	0 44	72 23	1431 74	-13 70	-2 29	-13 68	0 07	11914960 48	1896248 61	N 32 49 19 73	W 104 10 1 06
	1562 00	0 18	55 00	1561 74	-13 06	-2 02	-13 04	0 21	11914960 75	1896249 26	N 32 49 19 73	W 104 10 1 05
	1691 00	0 26	89 63	1690 74	-12 60	-1 90	-12 58	0 12	11914960 87	1896249 71	N 32 49 19 73	W 104 10 1 04
	1821 00	0 18	71 87	1820 74	-12 11	-1 84	-12 09	0 08	11914960 93	1896250 20	N 32 49 19 74	W 104 10 1 04
	1951 00	0 18	85 67	1950 74	-11 71	-1 76	-11 70	0 03	11914961 01	1896250 60	N 32 49 19 74	W 104 10 1 03
	2080 00	0 18	82 16	2079 74	-11 31	-1 72	-11 29	0 01	11914961 06	1896251 00	N 32 49 19 74	W 104 10 1 03
	2210 00	0 18	126 72	2209 74	-10 94	-1 81	-10 93	0 10	11914960 96	1896251 37	N 32 49 19 74	W 104 10 1 02
	2340 00	0 09	129 00	2339 73	-10 70	-2 00	-10 68	0 07	11914960 77	1896251 61	N 32 49 19 73	W 104 10 1 02
	2469 00	0 28	113 71	2468 73	-10 35	-2 18	-10 34	0 14	11914960 59	1896251 96	N 32 49 19 73	W 104 10 1 02
	2599 00	0 18	101 76	2598 73	-9 89	-2 34	-9 87	0 07	11914960 43	1896252 43	N 32 49 19 73	W 104 10 1 01
	2728 00	0 44	78 47	2727 73	-9 20	-2 28	-9 18	0 22	11914960 49	1896253 11	N 32 49 19 73	W 104 10 1 00
	2858 00	1 76	71 26	2857 70	-6 82	-1 54	-6 80	1 02	11914961 23	1896255 49	N 32 49 19 74	W 104 10 0 97
	2988 00	4 22	75 65	2987 52	-0 28	0 29	-0 28	1 90	11914963 06	1896262 01	N 32 49 19 76	W 104 10 0 90
	3117 00	5 27	80 75	3116 07	10 19	2 42	10 17	0 88	11914965 19	1896272 46	N 32 49 19 78	W 104 10 0 78
	3247 00	5 36	79 08	3245 52	22 06	4 53	22 02	0 14	11914967 30	1896284 31	N 32 49 19 80	W 104 10 0 64
	3376 00	5 36	81 63	3373 95	33 95	6 55	33 90	0 18	11914969 31	1896296 18	N 32 49 19 81	W 104 10 0 50
	3501 00	5 54	81 98	3498 39	45 71	8 24	45 65	0 15	11914971 00	1896307 93	N 32 49 19 83	W 104 10 0 36
	3631 00	5 36	82 95	3627 80	57 96	9 86	57 89	0 16	11914972 62	1896320 16	N 32 49 19 85	W 104 10 0 22
	3760 00	5 80	84 00	3756 19	70 44	11 28	70 35	0 35	11914974 04	1896332 62	N 32 49 19 86	W 104 10 0 07
	3890 00	5 89	86 02	3885 51	83 63	12 43	83 54	0 17	11914975 19	1896345 80	N 32 49 19 87	W 104 9 59 92
	4020 00	5 89	86 90	4014 83	96 95	13 25	96 85	0 07	11914976 02	1896359 11	N 32 49 19 88	W 104 9 59 76
	4150 00	5 98	83 21	4144 13	110 35	14 41	110 24	0 30	11914977 18	1896372 49	N 32 49 19 89	W 104 9 59 60
	4279 00	6 24	91 21	4272 40	124 03	15 06	123 92	0 69	11914977 82	1896386 17	N 32 49 19 89	W 104 9 59 44
	4409 00	6 24	90 68	4401 63	138 16	14 83	138 05	0 04	11914977 59	1896400 30	N 32 49 19 89	W 104 9 59 28
	4539 00	6 50	92 35	4530 83	152 57	14 44	152 46	0 25	11914977 21	1896414 71	N 32 49 19 88	W 104 9 59 11
	4669 00	6 50	95 17	4659 99	167 24	13 48	167 14	0 25	11914978 24	1896429 38	N 32 49 19 87	W 104 9 58 94
	4798 00	6 59	94 29	4788 15	181 89	12 27	181 80	0 10	11914975 03	1896444 03	N 32 49 19 86	W 104 9 58 76
End MWD Survey	4854 00	6 50	94 46	4843 78	188 25	11 78	188 16	0 16	11914974 54	1896450 39	N 32 49 19 85	W 104 9 58 69

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 #6 MWD 0' to 385'
	14 000	14 000	Act Stns	SLB_NSG+SSHOT-Depth Only	Original Hole / ROO 22 State #6 MWD 0' to 385'
	14 000	385 000	Act Stns	SLB_NSG+SSHOT	Original Hole / ROO 22 State #6 MWD 0' to 385'
	385 000	4854 000	Act Stns	SLB_MWD-STD	Original Hole / ROO 22 State #6 MWD 385' to 4905'