

Weatherford®

Evaluation, Drilling & Intervention

10000 West County Rd. 116

P.O. Box 61028

Midland, TX USA 79711

Tel. (432) 561-8892 Fax (432) 561-8895

30-015-39384

Date: September 18, 2012

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Attention: Anthony Tschacher

Re: Occidental Permian Ltd
Well: McHam 34 State #1
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

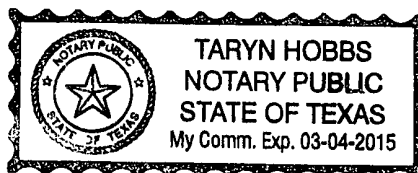
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Ray Franco MWD Supervisor	1	2651' MD 5159' MD	8-28-2012 9-15-2012	Measurement While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
MWD Coordinator

On this, the 19 day of September, 2012, before me a notary public, the undersigned officer, personally appeared Jess Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 9/18/2012	Time: 16:52 46	Page: 1
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well: McHam 34 State #1, Grid North		
Site: McHam 34 State #1	Vertical (TVD) Reference: SITE 3688.9		
Well: McHam 34 State #1	Section (VS) Reference: Well (0.00N,0.00E,78 36Azi)		
Wellpath: ST01	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 9/10/2012
Company: Weatherford International Ltd.	Engineer: Patrick Rudolph
Tool: MWD,MWD - Standard	Tied-to: User Defined

Site: McHam 34 State #1

Site Position:	Northing: 653452 20 ft	Latitude: 32 47 46 728 N
From: Map	Easting: 552528.70 ft	Longitude: 104 9 44.601 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3674 90 ft		Grid Convergence: 0 09 deg

Well: McHam 34 State #1	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 653452.20 ft
+E/-W 0.00 ft	Easting : 552528.70 ft
Position Uncertainty: 0.00 ft	Latitude: 32 47 46.728 N
	Longitude: 104 9 44 601 W

Wellpath: ST01	Drilled From: ST00
Current Datum: SITE	Tie-on Depth: 2771 00 ft
Magnetic Data: 9/4/2012	Above System Datum: Mean Sea Level
Field Strength: 48798 nT	Declination: 7 75 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.58 deg
ft	+E/-W
	Direction
	deg
0.00	0 00
	0 00
	78 36

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
2598 24	0 40	332.17	2598 10	20 46	-4.80	0.00	-0 57	653472.66	552523 90	Tie on SLB First Wft Svy
2651 00	0 16	306.21	2650 86	20.67	-4.95	0.50	-0.68	653472.87	552523 75	
2742 00	0 44	7 61	2741.86	21 09	-5 00	0 43	-0 65	653473 29	552523 70	
2762 00	1.07	73 83	2761 86	21.22	-4 81	4 90	-0 43	653473 42	552523.89	
2806 00	4 46	91 79	2805 80	21 28	-2 71	7 86	1.64	653473.48	552525.99	
2892.00	6.56	94.42	2891 40	20.79	5 53	2 46	9 61	653472 99	552534 23	
2979 00	6 55	92.93	2977 83	20 16	15 44	0.20	19.19	653472.36	552544 14	
3065 00	6 68	93.83	3063 26	19 57	25 33	0 19	28.76	653471.77	552554 03	
3151 00	6 62	92.58	3148 68	19 02	35.28	0 18	38 39	653471 22	552563.98	
3238 00	6 61	94.52	3235.10	18 39	45 28	0 26	48.06	653470 59	552573.98	
3324.00	6.75	95 00	3320.51	17.56	55 25	0.18	57.65	653469.76	552583 95	
3368 00	6 60	99 39	3364.22	16.93	60.32	1.21	62.49	653469.13	552589 02	
3411 00	5.33	104 76	3406.98	16.01	64.69	3.22	66.59	653468 21	552593 39	
3454 00	4.40	109 31	3449.83	14 96	68.18	2 34	69 79	653467 16	552596.88	
3497 00	3 81	124 24	3492 72	13 61	70 91	2.83	72 20	653465 81	552599.61	
3584 00	2 41	163.63	3579.60	10 23	73 82	2 85	74 36	653462 43	552602.52	
3670.00	2.51	171 33	3665 52	6.63	74 61	0.40	74 42	653458 83	552603 31	
3756 00	1.46	184 99	3751 47	3 68	74.80	1.33	74.01	653455.88	552603 50	
3843.00	1.48	184 00	3838.44	1 45	74 63	0 04	73 39	653453.65	552603 33	
3929 00	1 51	189.88	3924 41	-0 77	74.35	0.18	72.67	653451.43	552603.05	
4016.00	1.57	186.91	4011.38	-3 08	74 01	0 11	71.87	653449 12	552602.71	
4102 00	1 69	196.93	4097 34	-5 47	73.50	0 36	70 89	653446.73	552602 20	
4189.00	1 57	192 38	4184 31	-7 86	72 87	0 20	69 79	653444 34	552601.57	
4275.00	1 55	195 23	4270 28	-10.13	72 32	0 09	68 79	653442 07	552601 02	
4362 00	1 51	196.38	4357 24	-12 36	71 68	0 06	67.72	653439.84	552600.38	
4448 00	1.54	192 83	4443 21	-14.58	71 11	0 12	66.71	653437 62	552599 81	
4535.00	1 56	210 83	4530.18	-16 74	70 24	0 56	65 42	653435 46	552598 94	
4621.00	1.39	216 97	4616.15	-18.57	69 01	0.27	63.85	653433.63	552597.71	
4707 00	1 03	222 05	4702.13	-19.98	67 87	0.44	62 44	653432 22	552596 57	
4794 00	1.19	222 40	4789.12	-21 23	66 74	0 18	61 08	653430.97	552595 44	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company: Occidental Permian Ltd	Date: 9/18/2012	Time: 16.52.46	Page: 2
Field: Eddy Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well McHam 34 State #1, Grid North		
Site: McHam 34 State #1	Vertical (TVD) Reference: SITE 3688 9		
Well: McHam 34 State #1	Section (VS) Reference: Well (0.00N,0 00E,78 36Azi)		
Wellpath: ST01	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
4880.00	0 91	208.58	4875 10	-22.49	65.81	0 44	59 92	653429 71	552594.51	
5159 00	0 85	212 89	5154.07	-26.17	63 62	0 03	57 04	653426 03	552592 32	Last Wft Svy
5223 00	0 85	212 89	5218 06	-26 97	63 11	0 00	56.37	653425 23	552591 81	Proj. to Bit

Annotation

MD ft	TVD ft	
2598 24	2598 10	Tie on SLB
2651 00	2650.86	First Wft Svy
5159 00	5154 07	Last Wft Svy
5223 00	5218.06	Proj to Bit



McHam 34 State #1 ST Eddy Co, New Mexico

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	2771.00	0.31	359.33	2770.81	25.62	-2.55	0.00	0.00	2.67	
2	3000.00	0.51	13.62	2999.81	27.23	-2.32	0.10	34.35	3.22	
3	3157.91	8.00	90.00	3157.19	27.91	8.85	5.00	79.96	14.30	
4	3257.91	8.00	90.00	3256.22	27.91	22.77	0.00	0.00	27.93	
5	3577.91	0.00	0.00	3575.18	27.91	45.07	2.50	180.00	49.78	

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
McHam 34 State #1	0.00	0.00	653452.20	552528.70	32°47'46.728N	104°09'44.601W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
100' Radius	0.00	0.00	0.00	653452.20	552528.70	Circle (Radius: 100)

SITE DETAILS

McHam 34 State #1

Site Centre Northing: 653452.20
Easting: 552528.70

Ground Level: 3674.90
Positional Uncertainty: 0.00
Convergence: 0.09

FIELD DETAILS

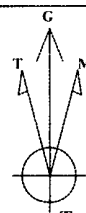
Eddy Co, NM (Nad 27)

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

LEGEND

- McHam 34 State #1, ST01, Plan #1
- McHam 34 State #1 (ST00)
- ST01
- Wft Svy



Azimuths to Grid North

Magnetic Declination: 7.86°

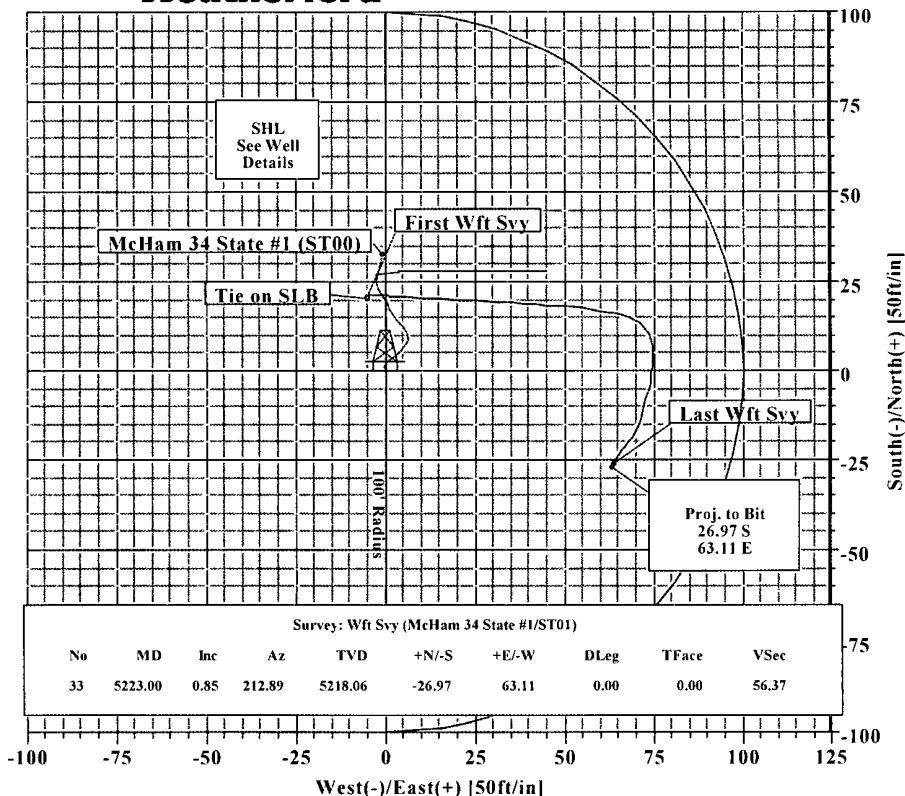
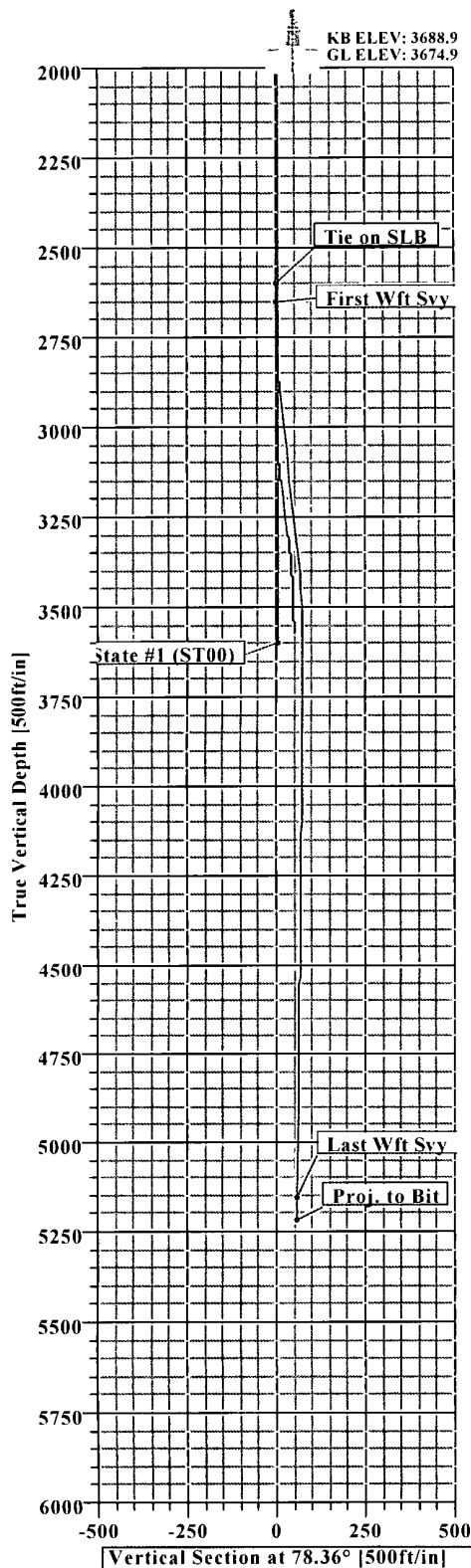
Grid Convergence: .09°

Total Correction: 7.77°

Model: BGGM2012

Total Correction to Grid North: 7.77°

Weatherford

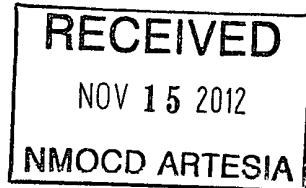


Survey: Wft Svy (McHam 34 State #1/ST01)

Created By: Patrick Rudolph

Date: 9/18/2012

30-015 39384



OCCIDENTAL PERMIAN LTD.

Artesia
Eddy County, NM
McHam 34 State #1
VH - Job #32K08121065

Survey: Gyro

SDI Standard Survey Report

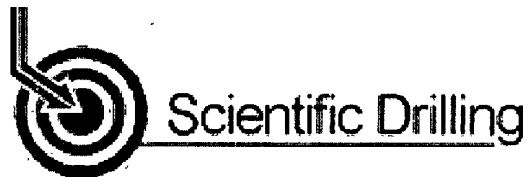
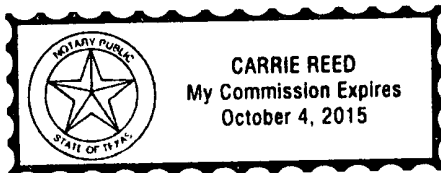
This survey is correct to the best of my knowledge and is supported by actual field data.

Shanton

Notarized this date 1st of September, 2012.

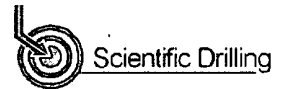
Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	OCCIDENTAL PERMAN LTD	Local Co-ordinate Reference:	Well McHam 34 State #1
Project:	Artesia	TVD Reference:	WELL @ 0 00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 00usft (Original Well Elev)
Well:	McHam 34 State #1	North Reference:	Grid
Wellbore:	VH - Job #32K08121065	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K08121065	Database:	EDM-Regulatory

Project		Artesia	
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:	660,143 61 usft	Latitude:	32° 48' 53 046 N
From:	Lat/Long	Easting:	545,587 99 usft	Longitude:	104° 11' 5 805 W
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 08 °

Well	McHam 34 State #1, Vertical					
Well Position	+N/-S	0 00 usft	Northing:	653,701 75 usft	Latitude:	32° 47' 49 200 N
	+E/-W	0 00 usft	Easting:	552,340 63 usft	Longitude:	104° 9' 46 800 W
Position Uncertainty		0 00 usft	Wellhead Elevation:	usft	Ground Level:	0 00 usft

Wellbore	VH - Job #32K08121065				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/25/12	7 76	60 58	48,802

Design		VH - Job #32K08121065		
Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0 00	0 00	0 00	26 13

Survey Program		Date	09/22/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100 00	362 00	Gyro (VH - Job #32K08121065)	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
100 00	0 56	4 43	100 00	0 49	0 04	4 43	0 49
200 00	0 35	334 68	200 00	1 25	-0 06	357 48	1 25
300 00	1 04	47 52	299 99	2 14	0 48	12 74	2 19
362 00	1 43	49 18	361 97	3 03	1 48	26 13	3 37

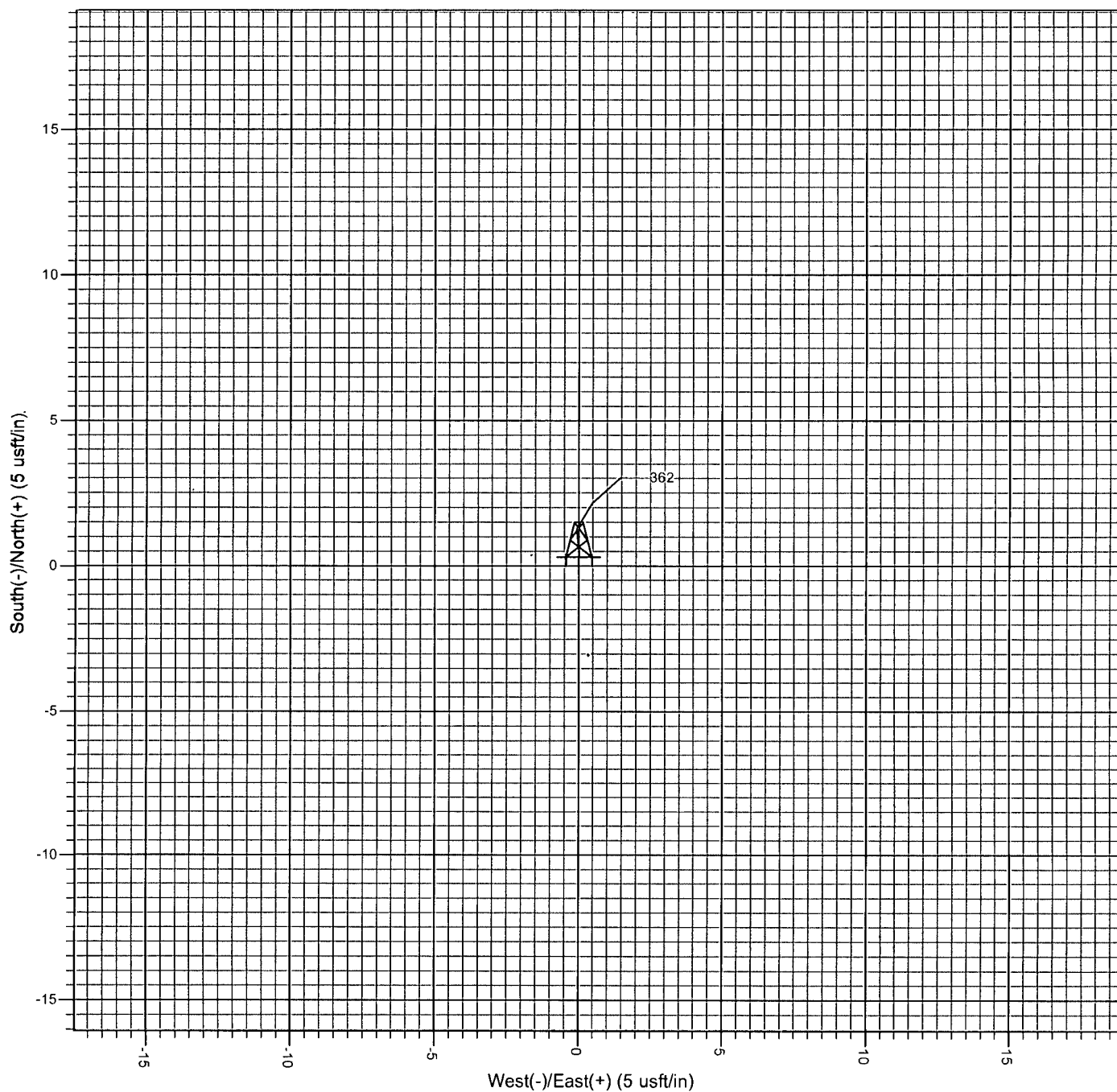


Scientific Drilling

Project: Artesia
Eddy County, NM
Well: McHam 34 State #1
Wellbore: VH - Job #32K08121065
Design: VH - Job #32K08121065

WELL DETAILS: McHam 34 State #1
WELL @ 0.00usft (Original Well Elev)
Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	653701.75	552340.63	32° 47' 49.200 N	104° 9' 46.800 W	



PROJECT DETAILS: Artesia	SITE DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 48' 53.046 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 104° 11' 5.805 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.00
Zone: New Mexico East 3001	Convergence: 0.08
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

30-015-39384

October 16, 2012

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



Attention: Anthony T Tschacher

Re:

CLIENT: Oxy Permian
WELL: McHam 34 State #1
FIELD: Permian Basin
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-15-39384
JOB NO: NM-OXY-0013

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>
Nick Banschbach FST-1	McHam 34 State #1 Original Hole	454.00 Ft to 3503.00 Ft	August 26, 2012 to September 2, 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 Permian
Enclosures: [2]
County of Eddy
State of Texas

Reservoir Development

Drilling & Measurements (Extreme Engineering)

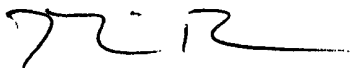
6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

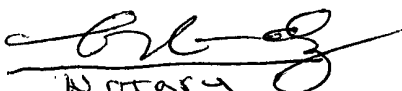
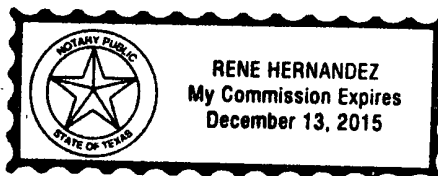
I, Nick Banschbach certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of August 26, 2012 through September 02, 2012, conduct or supervise the taking of the SlimPulse surveys from a depth of 454.00 feet to a depth of 3503.00 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 Permian for the McHam 34 State #1 Well (Original Hole) API No. 30-15-39384 in Texas; 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.



Nick Banschbach
FST-1

Before me, Rene Hernandez, on this day personally appeared Nick Banschbach 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 13th day of October, 2012 (year).


Notary
Public

McHam 34 State #1 MWD 0' to 3503' Survey Report

(Def Survey)

Report Date: September 06, 2012 - 06 26 PM
 Client: Oxy Permian
 Field: NM, Eddy (NAD27) 2011
 Structure / Slot: Oxy Permian (McHam 34 State #1) Savanna 415 / McHam 34 State #1
 Well: McHam 34 State #1
 Borehole: Original Hole
 UWI / API#: Unknown / 30-15-39384
 Survey Name: McHam 34 State #1 MWD 0' to 3503'
 Survey Date: September 06, 2012
 Tort / AHD / DDI / ERD Ratio: 4.187 ° / 31 993 ft / 2 127 / 0 009
 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: 3689 000 ft above Unknown
 Seabed / Ground Elevation: 3675 000 ft above Unknown
 Magnetic Declination: 7 948 °
 Total Field Strength: 48759 209 nT
 Magnetic Dip Angle: 60 538 °
 Declination Date: September 06, 2012

Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Magnetic Declination Model: BGGM 2011

Location Lat / Long: N 32° 47' 46 68000", W 104° 9' 44 64000"
 Location Grid N/E Y/X: N 653447 382 ftUS, E 552525 417 ftUS
 North Reference: Gnd North
 Grid Convergence Used: 0 093 °

CRS Grid Convergence Angle: 0 09258691 °
 Total Corr Mag North->Grid North: 7 855 °

Grid Scale Factor: 0 99991225
 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 ° ' ")
Surface	0 00	0 00	0 00	0 00	0 00	0 00	0 00	N/A	653447 38	552525 42	N 32 47 46 68	W 104 9 44 64
Assumed Vertical	415 00	0 00	0 00	415 00	0 00	0 00	0 00	0 00	653447 38	552525 42	N 32 47 46 68	W 104 9 44 64
Begin MWD Surveys	454 28	1 10	43 36	454 28	0 27	0 27	0 26	2 80	653447 66	552525 68	N 32 47 46 68	W 104 9 44 64
	576 19	0 79	46 35	576 17	1 71	1 71	1 67	0 26	653449 09	552527 09	N 32 47 46 70	W 104 9 44 62
	760 53	0 70	33 16	760 50	3 52	3 52	3 21	0 10	653450 91	552528 62	N 32 47 46 71	W 104 9 44 60
	913 12	0 40	7 76	913 08	4 83	4 83	3 79	0 25	653452 21	552529 20	N 32 47 46 73	W 104 9 44 60
	1129 60	0 62	330 36	1129 55	6 60	6 60	3 31	0 18	653453 98	552528 73	N 32 47 46 75	W 104 9 44 60
	1303 25	0 62	325 27	1303 19	8 19	8 19	2 31	0 03	653455 57	552527 73	N 32 47 46 76	W 104 9 44 61
	1474 45	0 70	319 25	1474 38	9 74	9 74	1 10	0 06	653457 12	552526 52	N 32 47 46 78	W 104 9 44 63
	1819 90	0 70	333 66	1819 80	13 23	13 23	-1 21	0 05	653460 61	552524 20	N 32 47 46 81	W 104 9 44 65
	1949 59	0 62	329 13	1949 48	14 54	14 54	-1 93	0 07	653461 92	552523 49	N 32 47 46 82	W 104 9 44 66
	2123 37	0 62	323 73	2123 25	16 11	16 11	-2 96	0 03	653463 49	552522 45	N 32 47 46 84	W 104 9 44 67
	2424 72	0 62	346 76	2424 59	19 01	19 01	-4 30	0 08	653466 39	552521 12	N 32 47 46 87	W 104 9 44 69
	2598 24	0 40	332 17	2598 10	20 46	20 46	-4 80	0 15	653467 84	552520 62	N 32 47 46 88	W 104 9 44 70
	2771 44	0 31	4 33	2771 30	21 46	21 46	-5 05	0 12	653468 84	552520 37	N 32 47 46 89	W 104 9 44 70
	3115 57	0 62	17 17	3115 41	24 17	24 17	-4 43	0 09	653471 55	552520 99	N 32 47 46 92	W 104 9 44 69
	3289 20	0 62	21 56	3289 03	25 94	25 94	-3 80	0 03	653473 32	552521 61	N 32 47 46 94	W 104 9 44 68
End MWD Surveys	3503 57	0 48	1 83	3503 39	27 92	27 92	-3 35	0 11	653475 30	552522 07	N 32 47 46 96	W 104 9 44 68

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	1/14 000	SLB_BJND+TREND-Depth Only	Original Hole / McHam 34 State #1 MWD 0' to 3503'
	14 000	415 000	1/98 425	SLB_BJND+TREND	Original Hole / McHam 34 State #1 MWD 0' to 3503'
	415 000	415 000	Act Stns	SLB_BJND+TREND	Original Hole / McHam 34 State #1 MWD 0' to 3503'
	415 000	1474 448	1/1059 448	SLB_MWD-STD	Original Hole / McHam 34 State #1 MWD 0' to 3503'
	1474 448	1819 901	1/98 425	SLB_MWD-STD	Original Hole / McHam 34 State #1 MWD 0' to 3503'
	1819 901	2123 369	1/303 468	SLB_MWD-STD	Original Hole / McHam 34 State #1 MWD 0' to 3503'
	2123 369	2424 721	1/301 352	SLB_MWD-STD	Original Hole / McHam 34 State #1 MWD 0' to 3503'
	2424 721	2771 440	1/346 719	SLB_MWD-STD	Original Hole / McHam 34 State #1 MWD 0' to 3503'
	2771 440	3115 567	1/344 127	SLB_MWD-STD	Original Hole / McHam 34 State #1 MWD 0' to 3503'
	3115 567	3503 569	1/388 002	SLB_MWD-STD	Original Hole / McHam 34 State #1 MWD 0' to 3503'