

OCCIDENTAL PERMIAN LTD.

Artesia

Eddy County, NM

Piglet "21" State #6

VH - Job #32K0312253

Survey: Gyro

SDI Standard Survey Report

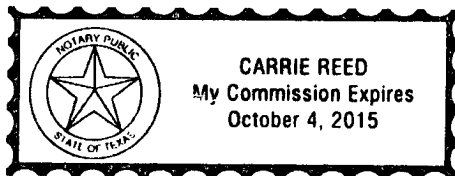
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notarized this date 2nd of April, 2012.

Carrie Reed

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 Piglet "21" State #6
Project:	Artesia	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Piglet "21" State #6	North Reference:	Grid
Wellbore:	VH - Job #32K0312253	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0312253	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
From:	Lat/Long	Easting:	545,587 99 usft
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 48' 53 046 N
		Longitude:	104° 11' 5 805 W
		Grid Convergence:	0 08 °

Well	Piglet "21" State #6, Vertical		
Well Position	+N/-S	0 0 usft	Northing: 660,966 36 usft
	+E/-W	0 0 usft	Easting: 544,648 54 usft
Position Uncertainty	0 0 usft	Wellhead Elevation:	usft
		Latitude:	32° 49' 1 200 N
		Longitude:	104° 11' 16 800 W
		Ground Level:	0 0 usft

Wellbore	VH - Job #32K0312253				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/4/2012	7 83	60 61	48,858

Design	VH - Job #32K0312253			
Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0 0	0 0	290 04

Survey Program	Date	4/10/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
77 0	398 0	Gyro (VH - Job #32K0312253)	Keeper	Keeper Surface Readout

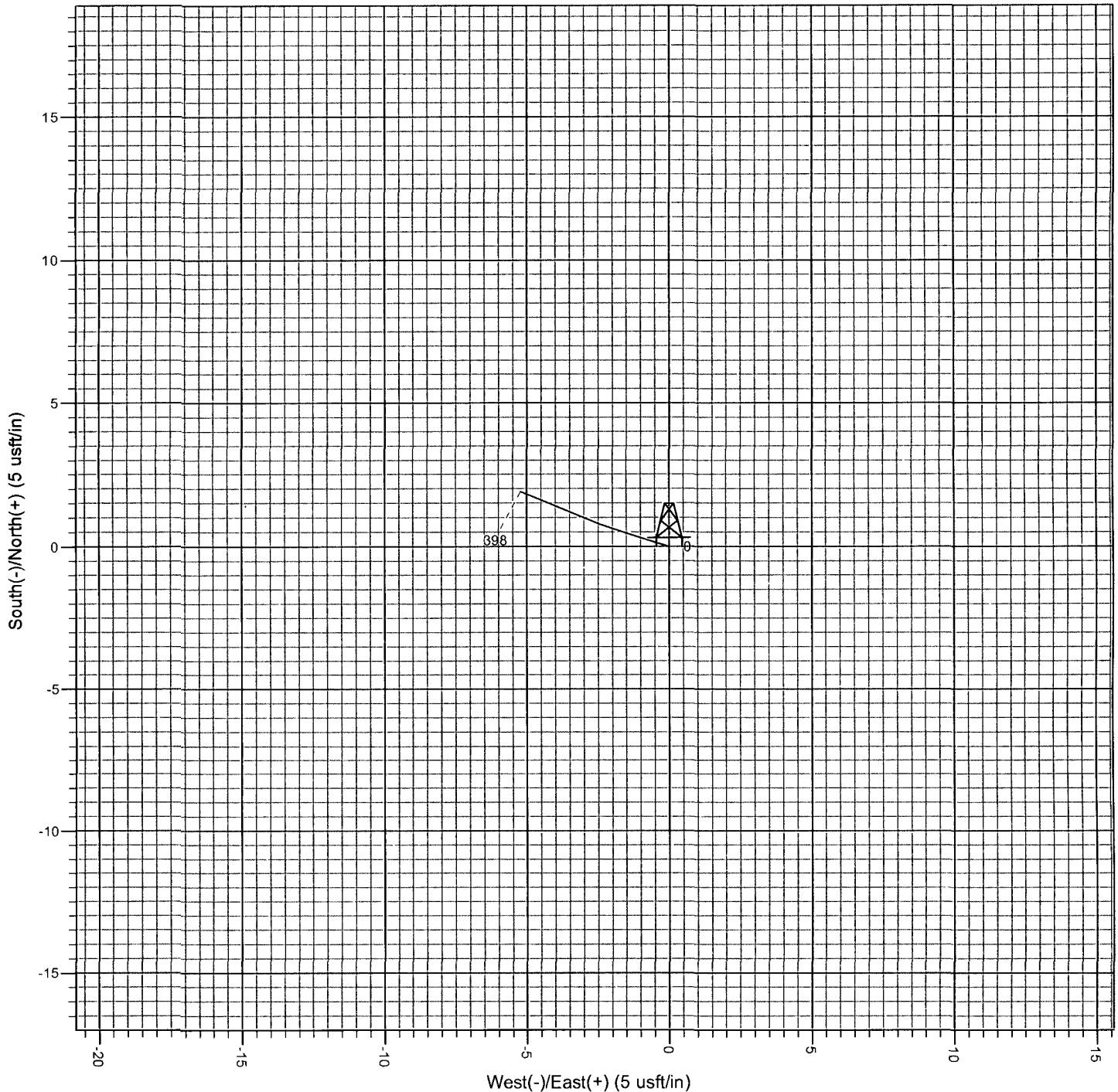
Survey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)	
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0	
77 0	0 74	285 19	77 0	0 1	-0 5	285 19	0 5	
142 2	1 00	288 27	142 2	0 4	-1 4	286 37	1 5	
207 8	0 84	289 67	207 8	0 8	-2 4	287 42	2 5	
302 7	0 94	293 32	302 7	1 3	-3 8	288 95	4 0	
398 0	0 94	292 30	398 0	1 9	-5 2	290 04	5 6	



Project: Artesia
Eddy County, NM
Well: Piglet "21" State #6
Wellbore: VH - Job #32K0312253
Design: VH - Job #32K0312253

WELL DETAILS: Piglet "21" State #6
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	660966.36	544648.54	32° 49' 1.200 N	104° 11' 16.800 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: 0.0
Zone: New Mexico East 3001	Convergence: 0.08
System Datum: Mean Sea Level	Local North: Grid



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

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

Date: March 12, 2012

Attention: Luis Tarazona

Re: Occidental Permian Ltd
Well: Piglet 21 State #6
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>
Drew Wood	6	460' MD	3/4/2012	Measurement
MWD Supervisor		4931' MD	3/10/2012	While Drilling

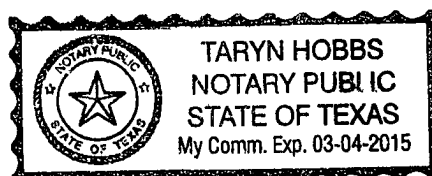
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
MWD Coordinator

On this, the 14th day of MARCH, 2012, before me a notary public, the undersigned officer, personally appeared Jesse 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



Weatherford

Company: Occidental Permian Ltd. Date: 3/12/2012 Time: 07:14:46 Page: 1
 Field: Eddy Co, NM (Nad.27) Co-ordinate(NE) Reference: Well: Piglet 21 Sate #6, Grid North
 Site: Piglet 21 State #6 Vertical (TVD) Reference: SITE 3637.2
 Well: Piglet 21 Sate #6 Section (VS) Reference: Well (0.00N,0.00E,90.00Az)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 3/6/2012

Company: Weatherford International Ltd. Engineer: Patrick Rudolph
 Tool: MWD,MWD - Standard Tied-to: User Defined

Field: Eddy Co, NM (Nad 27)

Map System: US State Plane Coordinate System 1927 Map Zone: New Mexico, Eastern Zone
 Geo Datum: NAD27 (Clarke 1866) Coordinate System: Well Centre
 Sys Datum: Mean Sea Level Geomagnetic Model: IGRF2010

Site: Piglet 21 State #6

Site Position: Northing: 660880.60 ft Latitude: 32 49 0 350 N
 From: Map Easting: 544758 30 ft Longitude: 104 11 15.515 W
 Position Uncertainty: 0 00 ft North Reference: Grid
 Ground Level: 3623 20 ft Grid Convergence: 0.08 deg

Well: Piglet 21 Sate #6 Slot Name:

Well Position: +N/-S 0.00 ft Northing: 660880.60 ft Latitude: 32 49 0 350 N
 +E/-W 0.00 ft Easting: 544758 30 ft Longitude: 104 11 15.515 W
 Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 3637 20 ft Drilled From: Surface
 Magnetic Data: 3/5/2012 Tie-on Depth: 0.00 ft
 Field Strength: 48858 nT Above System Datum: Mean Sea Level
 Vertical Section: Depth From (TVD) Declination: 7.83 deg
 +N/-S ft Mag Dip Angle: 60.61 deg
 +E/-W ft Direction deg
 0 00 0 00 0.00 90 00

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
398 00	0 94	292.30	397 96	1 91	-5 23	-5.23	0 00	0 00	0 00	Tie on Gyro First Wft Svy
460 00	0 99	295.17	459 95	2 33	-6.19	-6 19	0 11	0 08	4 63	
521.00	1 21	303 95	520 94	2 91	-7 20	-7 20	0 45	0 36	14 39	
551 00	1 31	304 50	550.93	3 28	-7 75	-7 75	0.34	0 33	1 83	
704 00	1 63	317 13	703 88	5 87	-10 67	-10 67	0.30	0 21	8 25	
794 00	1 13	11 00	793.86	7 68	-11 37	-11 37	1 47	-0 56	59.86	
857 00	1 06	65 50	856.85	8 53	-10 72	-10 72	1 59	-0 11	86.51	
948 00	1 94	69 75	947 82	9 41	-8 51	-8.51	0.97	0 97	4.67	
979 00	2 12	83.48	978 80	9 66	-7.45	-7 45	1 67	0 58	44.29	
1152 00	2.91	82 74	1151 63	10 58	0 09	0 09	0.46	0 46	-0 43	
1281 00	3.38	86 50	1280 43	11 22	7 13	7.13	0 40	0 36	2 91	
1411 00	2.69	90.63	1410 25	11.42	14.01	14 01	0 56	-0 53	3 18	
1541 00	3 56	89 25	1540 06	11.44	21 09	21.09	0.67	0.67	-1 06	
1670 00	1 94	84.00	1668 90	11 72	27.27	27 27	1 27	-1 26	-4 07	
1800 00	1 69	85 13	1798.84	12.12	31 37	31 37	0 19	-0 19	0 87	
1973 00	1 68	90 39	1971 76	12 32	36.45	36 45	0 09	-0 01	3 04	
2146.00	1.06	100.88	2144 71	12 00	40 55	40 55	0.39	-0.36	6 06	
2319 00	0 14	115.14	2317 70	11 60	42 32	42 32	0.53	-0 53	8 24	
2448 00	0.19	96 75	2446 70	11 51	42 67	42 67	0 06	0 04	-14 26	
2578 00	0 25	99 50	2576 70	11 44	43.17	43 17	0 05	0.05	2 12	
2708.00	0 32	160 68	2706.70	11 05	43.57	43.57	0.23	0.05	47.06	
2837 00	0 13	180 50	2835 70	10 57	43.68	43 68	0 16	-0 15	15 36	
2967.00	0 28	130 00	2965 70	10 21	43 93	43.93	0 17	0 12	-38 85	
3096.00	0 19	78 75	3094 70	10.05	44 38	44 38	0 17	-0 07	-39 73	



Weatherford International Ltd.

WFT Survey Report

**Weatherford**

Company: Occidental Permian Ltd. Date: 3/12/2012 Time: 07:14.46 Page: 2
Field: Eddy Co., NM (Nad 27) Co-ordinate(NE) Reference: Well: Piglet 21 Sate #6, Grid North
Site: Piglet 21 State #6 Vertical (TVD) Reference: SITE 3637.2
Well: Piglet 21 Sate #6 Section (VS) Reference: Well (0.00N,0.00E,90.00Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
3226.00	0.06	62.29	3224.70	10.13	44.65	44.65	0.10	-0.10	-12.66	
3356.00	0.31	59.50	3354.70	10.34	45.01	45.01	0.19	0.19	-2.15	
3485.00	0.44	59.38	3483.69	10.77	45.74	45.74	0.10	0.10	-0.09	
3615.00	0.31	31.13	3613.69	11.32	46.35	46.35	0.17	-0.10	-21.73	
3802.00	0.31	31.88	3800.69	12.18	46.88	46.88	0.00	0.00	0.40	
3874.00	1.44	81.25	3872.68	12.49	47.88	47.88	1.75	1.57	68.57	
4104.00	0.25	67.50	4102.65	13.12	51.20	51.20	0.52	-0.52	-5.98	
4234.00	0.13	44.50	4232.65	13.33	51.56	51.56	0.11	-0.09	-17.69	
4307.00	0.18	46.87	4305.65	13.47	51.70	51.70	0.07	0.07	3.25	
4436.00	0.19	88.77	4434.65	13.61	52.07	52.07	0.10	0.01	32.48	
4566.00	0.09	189.02	4564.65	13.52	52.26	52.26	0.17	-0.08	77.12	
4695.00	0.15	73.09	4693.65	13.47	52.41	52.41	0.16	0.05	-89.87	
4825.00	0.27	101.60	4823.65	13.45	52.87	52.87	0.12	0.09	21.93	
4931.00	0.18	109.60	4929.65	13.35	53.27	53.27	0.09	-0.08	7.55	Last Wft Svy
4988.00	0.18	109.60	4986.64	13.29	53.44	53.44	0.00	0.00	0.00	Proj to Bit

Annotation

MD ft	TVD ft	
398.00	397.96	Tie on Gyro
460.00	459.95	First Wft Svy
4931.00	4929.65	Last Wft Svy
4988.00	4986.64	Proj to Bit



Occidental Permian Ltd.

Piglet 21 State #6
Eddie Co., NM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	90.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	550.00	3.00	90.00	549.93	0.00	3.93	2.00	90.00	3.93	
4	1280.31	3.00	90.00	1279.25	0.00	42.15	0.00	0.00	42.15	
5	1580.31	0.00	90.00	1579.11	0.00	50.00	1.00	180.00	50.00	
6	4981.21	0.00	90.00	4980.00	0.00	50.00	0.00	0.00	50.00	PBHL

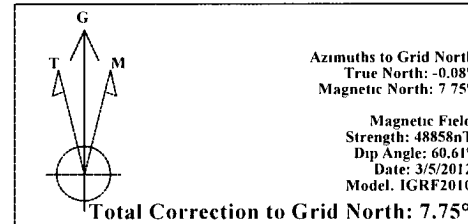
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Piglet 21 Sate #6	0.00	0.00	660880.60	544758.30	32°49'00.350N	104°11'15.515W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
PBHL	4980.00	0.00	50.00	660880.60	544808.30	Circle (Radius: 100)	

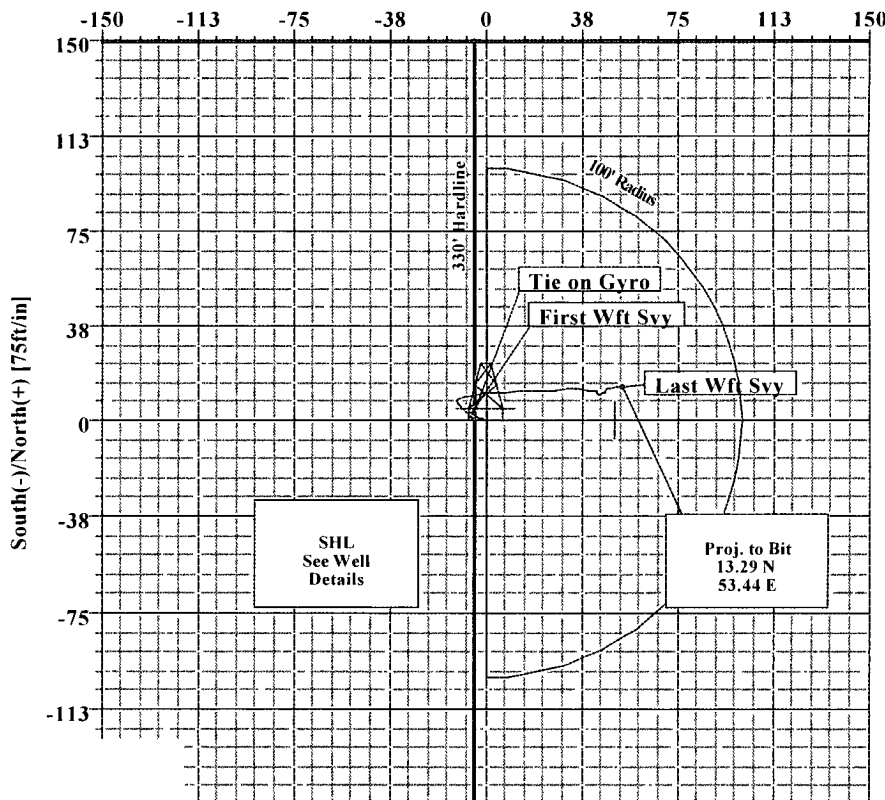
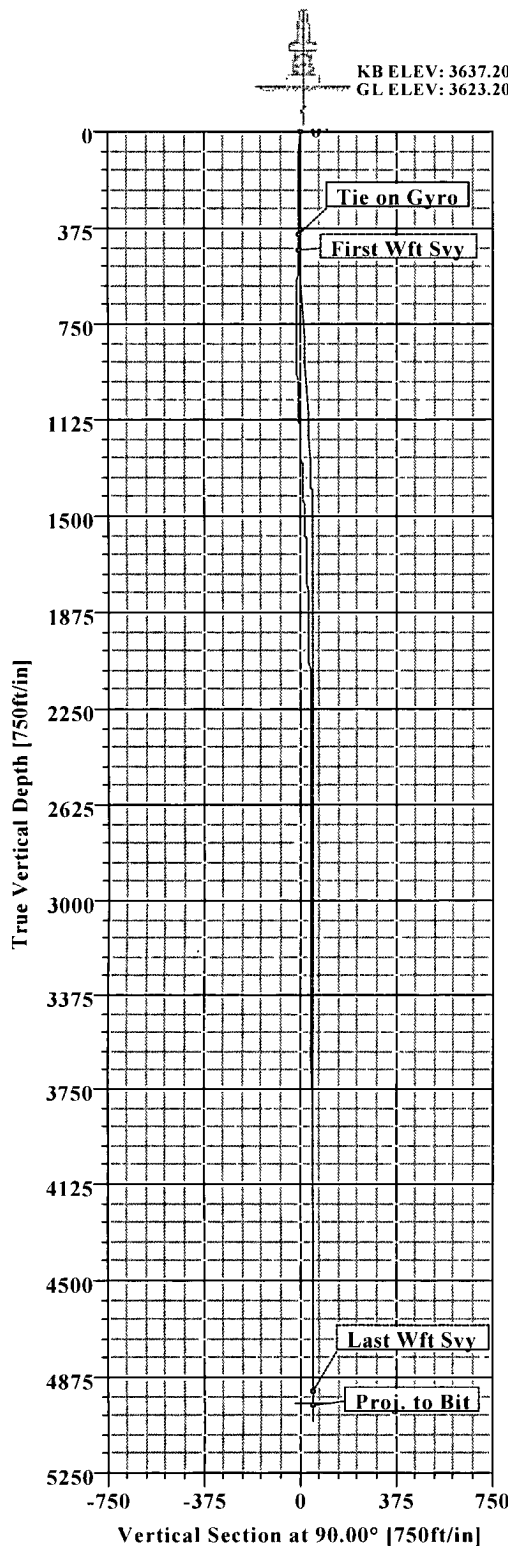
SITE DETAILS	
Piglet 21 State #6	
Site Centre Northing:	660880.60
Easting:	544758.30
Ground Level:	3623.20
Positional Uncertainty:	0.00
Convergence:	0.08

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	
	Piglet 21 Sate #6, Plan #1
	Wft Svy



Survey, Wft Svy (Piglet 21 Sate #6/1)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
39	4988.00	0.18	109.60	4986.64	13.29	53.44	0.00	0.00	53.44



Survey: Wft Svy (Piglet 21 Sate #6/1)
Created By: Patrick Rudolph
Date: 3/12/2012