

OCCIDENTAL PERMIAN LTD.

Artesia

Eddy County, NM

Piglet "21" State #5

VH - Job #32K0212129

Survey: Gyro

SDI Standard Survey Report

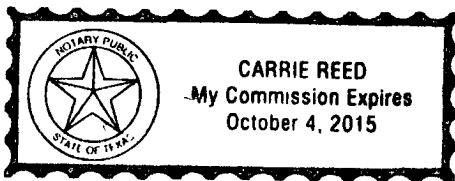
This survey is correct to the best of my knowledge and is supported by actual field data.

R. Hart

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 #5
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 #5	North Reference:	Grid
Wellbore:	VH - Job #32K0212129	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0212129	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 0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0 08 °

Well	Piglet "21" State #5, Vertical					
Well Position	+N/-S	0 0 usft	Northing:	659,890 08 usft	Latitude:	32° 48' 50 522 N
	+E/-W	0 0 usft	Easting:	546,641 15 usft	Longitude:	104° 10' 53 468 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore						VH - Job #32K0212129									
Magnetics						Model Name		Sample Date		Declination		Dip Angle		Field Strength	
										(°)		(°)		(nT)	
						IGRF2010		2/7/2012		7 83		60 61		48,864	

Design		VH - Job #32K0212129		
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	258.90

Survey Program		Date	4/1/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100 0	350 0	Gyro (VH - Job #32K0212129)	Keeper	Keeper Surface Readout	

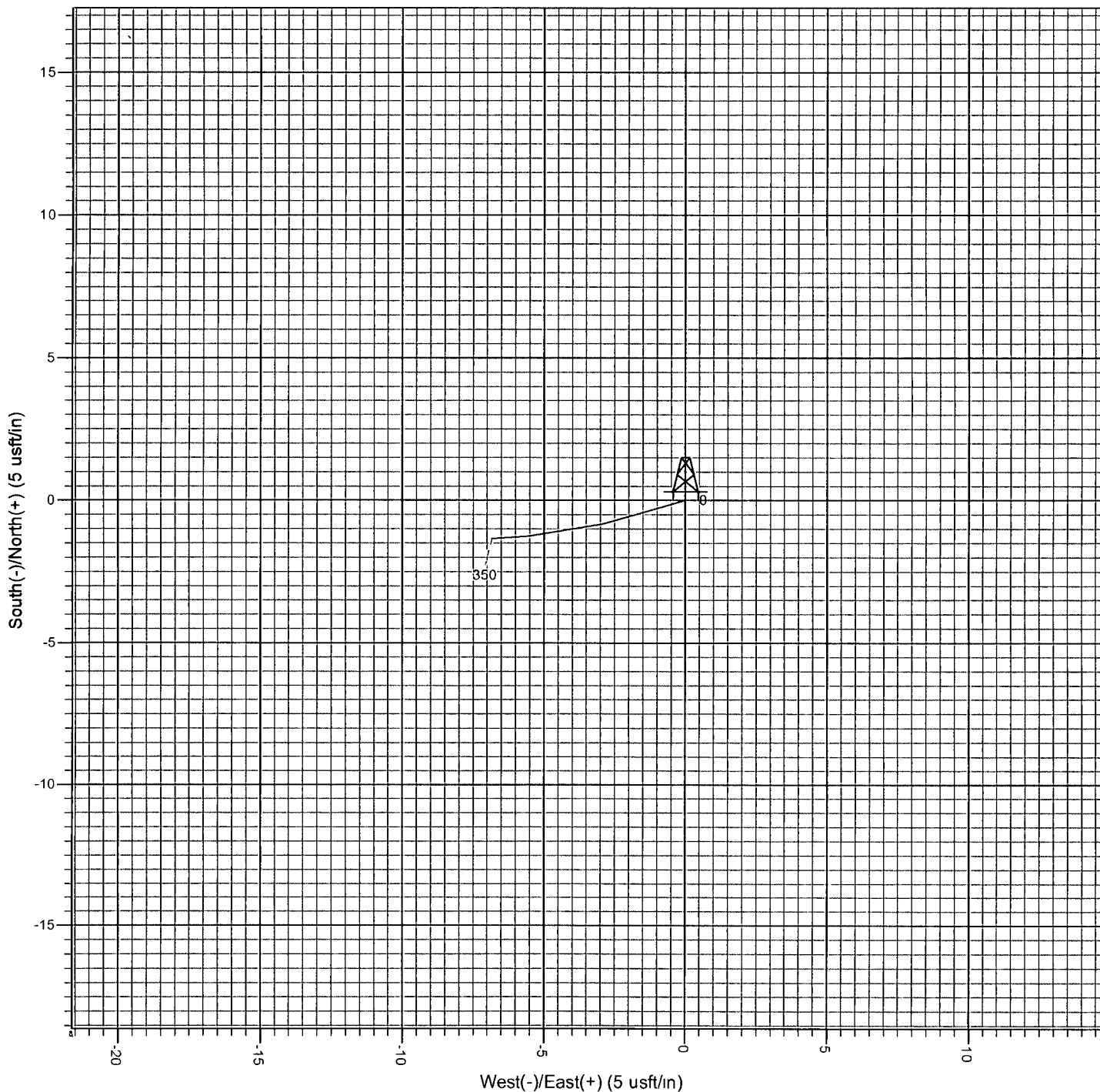
Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0
100 0	0 99	254 24	100 0	-0 2	-0 8	254 24	0 9
200 0	1 50	254.03	200 0	-0 8	-2 9	254 15	3 0
300 0	1 55	267 23	299 9	-1 3	-5 5	257 22	5 7
350 0	1 43	265 22	349 9	-1 3	-6 8	258 90	7 0



Project: Artesia
Eddy County, NM
Well: Piglet "21" State #5
Wellbore: VH - Job #32K0212129
Design: VH - Job #32K0212129

WELL DETAILS: Piglet "21" State #5
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	659890.08	546641.15	32° 48' 50.522 N	104° 10' 53.468 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