

OCCIDENTAL PERMIAN LTD.

Atoka

30-015-39850

Eddy County, NM

Rogers #6

VH - Job #32K0612732

Survey: Gyro

SDI Standard Survey Report

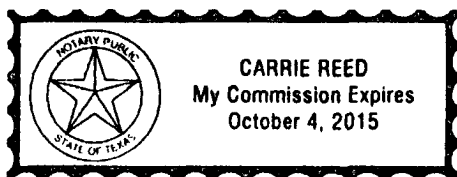
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notarized this date 18th of July, 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 Rogers #6
Project:	Atoka	TVD Reference:	WELL @ 0 00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 00usft (Original Well Elev)
Well:	Rogers #6	North Reference:	Grid
Wellbore:	VH - Job #32K0612732	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0612732	Database:	EDM-Regulatory

Project		Atoka	
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:	631,468 01 usft	Latitude:	32° 44' 9 600 N
From:	Lat/Long	Easting:	495,797 60 usft	Longitude:	104° 20' 49 200 W
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16"	Grid Convergence:	-0 01 °

Well	Rogers #6, Vertical					
Well Position	+N/-S	0 00 usft	Northing:	630,013 00 usft	Latitude:	32° 43' 55 200 N
	+E/-W	0 00 usft	Easting:	494,567 38 usft	Longitude:	104° 21' 3 600 W
Position Uncertainty		0 00 usft	Wellhead Elevation:	usft	Ground Level:	0 00 usft

Wellbore	VH - Job #32K0612732				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/16/12	7 86	60 50	48,760

Design		VH - Job #32K0612732		
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	76 18

Survey Program		Date 07/22/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
111 73	855 53	Gyro (VH - Job #32K0612732)	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
111 73	0 68	84 57	111 73	0 06	0 66	84 57	0 66
176 00	0 25	109 36	176 00	0 05	1 17	87 44	1 17
240 27	0 64	67 30	240 26	0 14	1 64	84 95	1 64
301 46	0 75	61 04	301 45	0 47	2 30	78 45	2 35
362 65	0 80	61 82	362 63	0 87	3 03	74 04	3 15
423 84	1 07	64 40	423 81	1 31	3 92	71 46	4 13
510 15	0 97	83 57	510 11	1 74	5 37	72 01	5 65
596 46	1 22	88 85	596 41	1 84	7 02	75 27	7 26
682 77	1 09	84 86	682 70	1 94	8 75	77 52	8 97
769 08	1 28	68 01	768 99	2 37	10 46	77 23	10 73
855 53	1 29	72 59	855 42	3 02	12 29	76 18	12 66

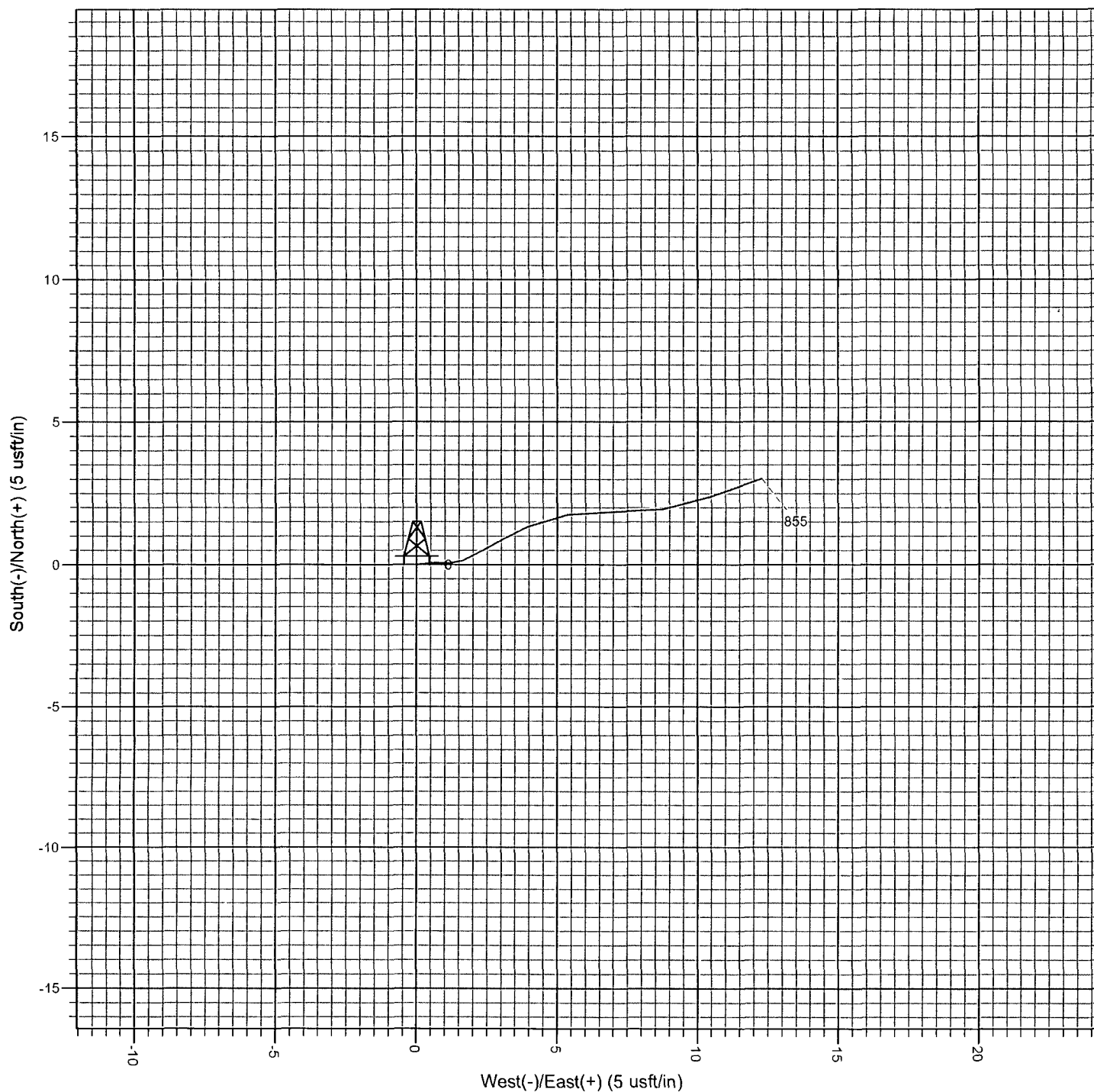


Scientific Drilling

Project: Atoka
Eddy County, NM
Well: Rogers #6
Wellbore: VH - Job #32K0612732
Design: VH - Job #32K0612732

WELL DETAILS: Rogers #6
WELL @ 0.00usft (Original Well Elev)
Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	630013.00	494567.38	32° 43' 55.200 N	104° 21' 3.600 W	



PROJECT DETAILS: Atoka	SITE DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 44' 9.600 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 104° 20' 49.200 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.00
Zone: New Mexico East 3001	Convergence: -0.01
System Datum: Mean Sea Level	Local North: Grid