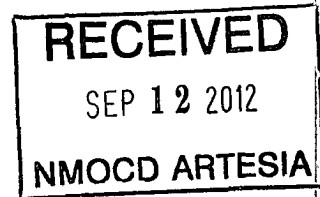


30-015-39651



OCCIDENTAL PERMIAN LTD.

Empire
Eddy County, NM
Roo 22 State #2
VH - Job #32K0712825

Survey: Gyro

SDI Standard Survey Report

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

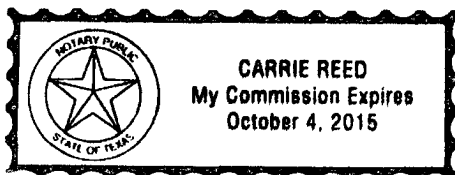
Whith

Notarized this date 3rd of August, 2012.

Carrie Reed

Notary Signature
County of Midland
State of Texas

*Provide survey to TD
#6*



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Roo 22 State #2
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 #2	North Reference:	Grid
Wellbore:	VH - Job #32K0712825	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0712825	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	Latitude:	32° 49' 1 589 N
From:	Lat/Long	Easting:	549,289 58 usft	Longitude:	104° 10' 22 415 W
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 09 °

Well	Roo 22 State #2, Vertical					
Well Position	+N/-S	0 00 usft	Northing:	660,248 75 usft	Latitude:	32° 48' 54 000 N
	+E/-W	0 00 usft	Easting:	551,408 42 usft	Longitude:	104° 9' 57 600 W
Position Uncertainty		0 00 usft	Wellhead Elevation:	usft	Ground Level:	0 00 usft

Wellbore	VH - Job #32K0712825				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/08/12	7 78	60 60	48,825

Design		VH - Job #32K0712825		
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	301 86

Survey Program		Date	08/13/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100 00	276 00	Gyro (VH - Job #32K0712825)	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 96	292 09	100 00	0 32	-0 78	292 09	0 84
200 00	1 84	303 19	199 96	1 51	-2 90	297 52	3 27
276 00	2 17	310 59	275 92	3 11	-5 01	301 86	5 90

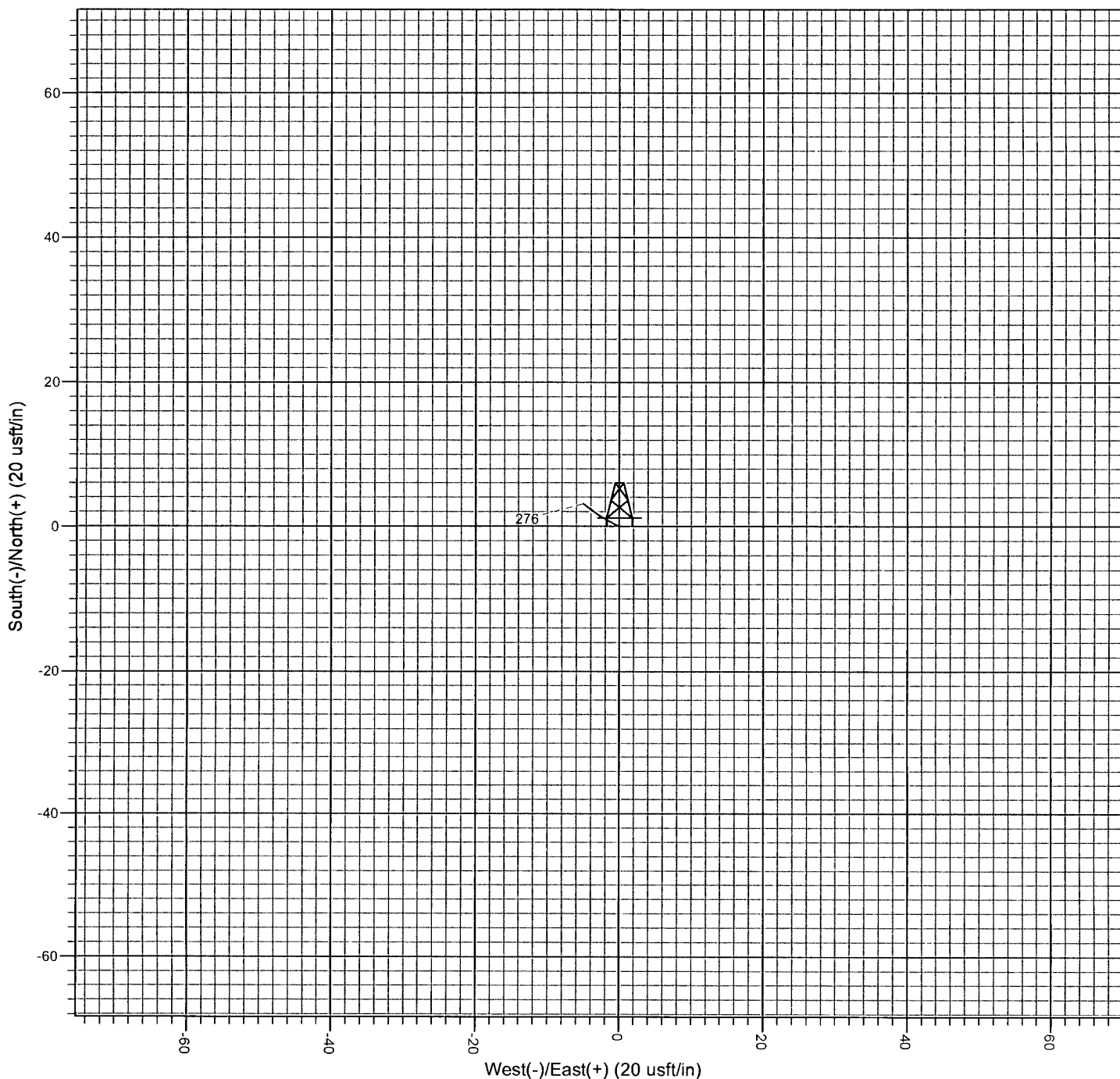


Scientific Drilling

Project: Empire
Eddy County, NM
Well: Roo 22 State #2
Wellbore: VH - Job #32K0712825
Design: VH - Job #32K0712825

WELL DETAILS: Roo 22 State #2
WELL @ 0.00usft (Original Well Elev)
Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	660248.75	551408.42	32° 48' 54.000 N	104° 9' 57.600 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