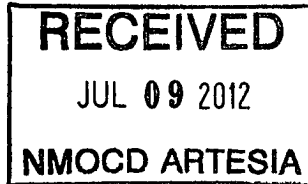


30-015-37993



OCCIDENTAL PERMIAN LTD.

GJ

Eddy County, NM

Tigger "9" State #5

VH - Job #32K0412469

Survey: Gyro

SDI Standard Survey Report

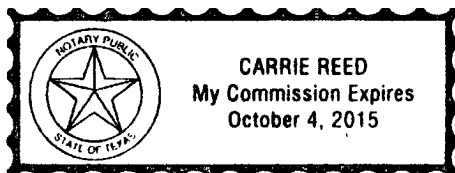
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 15th of June, 2012.

[Signature]

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 Tigger "9" State #5
Project:	GJ	TVD Reference:	WELL @ 0 00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 00usft (Original Well Elev)
Well:	Tigger "9" State #5	North Reference:	Grid
Wellbore:	VH - Job #32K0412469	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0412469	Database:	EDM-Regulatory

Project		GJ	
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:	670,397 91 usft	Latitude:	32° 50' 33 900 N
From:	Lat/Long	Easting:	578,212 29 usft	Longitude:	104° 4' 43 230 W
Position Uncertainty:	0 00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 14 °

Well	Tigger "9" State #5, Vertical					
Well Position	+N/-S	0 00 usft	Northing:	670,397 89 usft	Latitude:	32° 50' 33 900 N
	+E/-W	0 00 usft	Easting:	578,212 29 usft	Longitude:	104° 4' 43 230 W
Position Uncertainty		0 00 usft	Wellhead Elevation:	usft	Ground Level:	0 00 usft

Wellbore	VH - Job #32K0412469				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/23/12	7 76	60 65	48,873

Design	VH - Job #32K0412469			
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	302 12

Survey Program		Date	05/11/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
80 18	394 15	Gyro (VH - Job #32K0412469)	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	0 00	0 00
80 18	1 20	268 51	80 17	-0 02	-0 84	268 51		0 84	
111 63	1 44	324 59	111 62	0 29	-1 40	281 79		1 43	
145 44	1 51	315 65	145 42	0 96	-1 96	296 07		2 18	
177 39	1 48	314 31	177 35	1 55	-2 54	301 28		2 98	
208 13	1 41	311 32	208 09	2 07	-3 11	303 66		3 74	
239 83	1 37	299 76	239 78	2 52	-3 73	303 99		4 50	
271 83	1 58	297 04	271 77	2 91	-4 46	303 11		5 32	
303 93	1 63	298 81	303 85	3 33	-5 25	302 37		6 22	
334 13	1 53	304 40	334 04	3 76	-5 96	302 27		7 05	
363 88	1 65	301 08	363 78	4 21	-6 66	302 31		7 88	
394 15	1 91	300 12	394 04	4 69	-7 47	302 12		8 82	

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	OCCIDENTAL PERMIAN LTD	Local Co-ordinate Reference:	Well Tigger "9" State #5
Project:	GJ	TVD Reference:	WELL @ 0 00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 00usft (Original Well Elev)
Well:	Tigger "9" State #5	North Reference:	Grid
Wellbore:	VH - Job #32K0412469	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0412469	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)

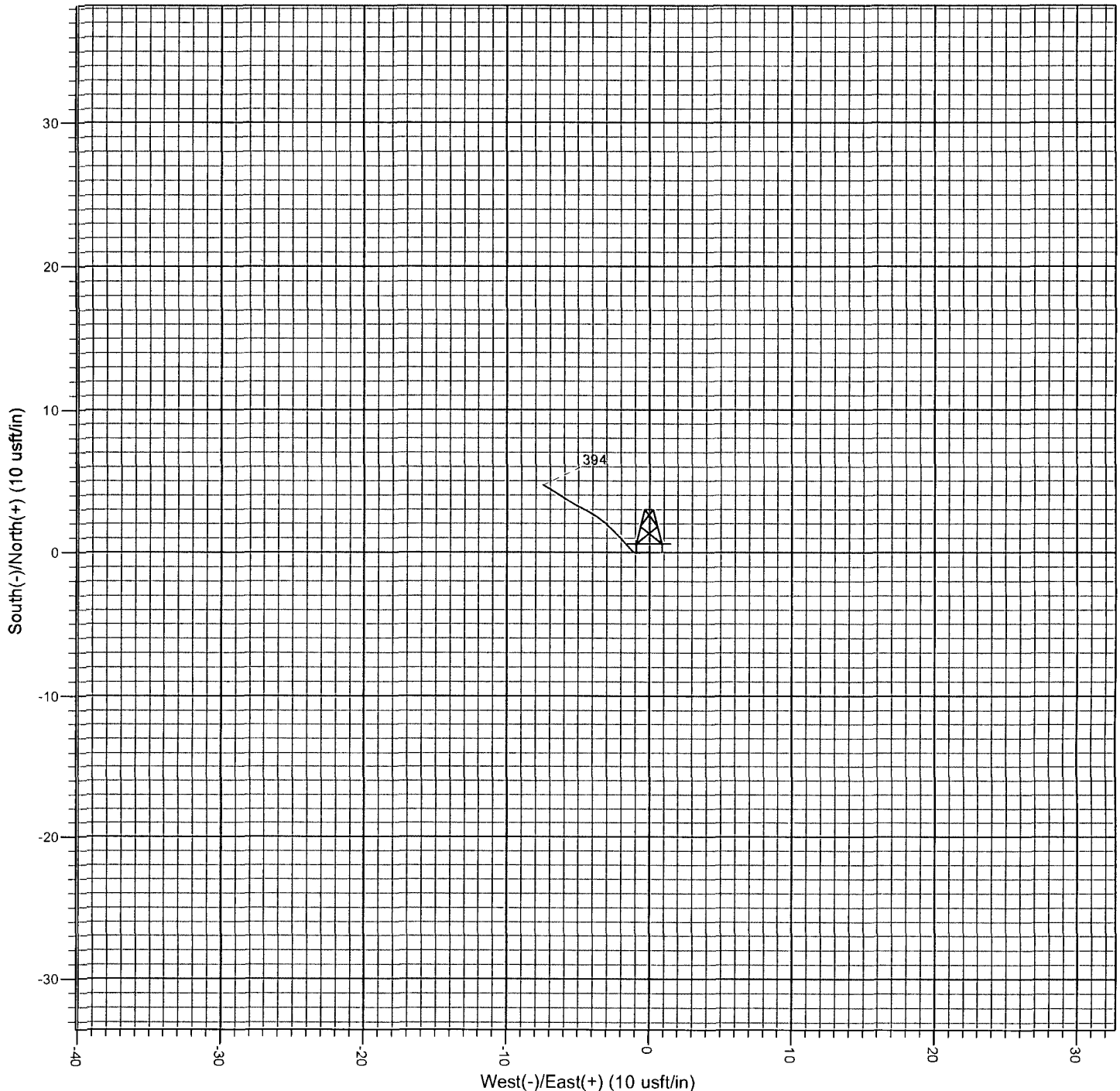


Scientific Drilling
Directional Drilling Operations

Project: GJ
Eddy County, NM
Well: Tigger "9" State #5
Wellbore: VH - Job #32K0412469
Design: VH - Job #32K0412469

WELL DETAILS: Tigger "9" State #5
WELL @ 0.00usft (Original Well Elev)
Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	670397 89	578212.29	32° 50' 33.900 N	104° 4' 43.230 W	



PROJECT DETAILS: GJ	SITE DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 50' 33.900 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 104° 4' 43.230 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.00
Zone: New Mexico East 3001	Convergence: 0 14
System Datum: Mean Sea Level	Local North: Grid