

30-015-37371

DEVON ENERGY

Harroun

Eddy County, NM

Laguna Salado 22 Federal #6H

VH - Job #32K0111025



Survey: Actual

SDI Standard Survey Report

16 January, 2011

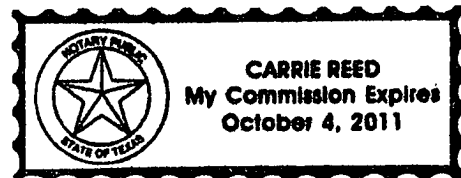
This survey is correct to the best of my knowledge and is supported by actual field data.

Hubert

Notarized this date 16th of January, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.

SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Laguna Salado 22 Federal #6H
Project:	Harroun	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Laguna Salado 22 Federal #6H	North Reference:	Grid
Wellbore:	VH - Job #32K0111025	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0111025	Database:	EDM-Regulatory

Project		Harroun	
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:	471,084.50 usft	Latitude:	32° 17' 40.610 N
From:	Lat/Long	Easting:	611,315.64 usft	Longitude:	103° 58' 23 120 W
Position Uncertainty:	0.0 usft	Slot Radius:	0"	Grid Convergence:	0.19 °

Well	Laguna Salado 22 Federal #6H, Directional (Great White)					
Well Position	+N-S	0 0 usft	Northing:	471,084.50 usft	Latitude:	32° 17' 40.610 N
	+E-W	0 0 usft	Easting:	611,315.64 usft	Longitude:	103° 58' 23 120 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore						VH - Job #32K0111025									
Magnetics						Model Name		Sample Date		Declination		Dip Angle		Field Strength	
										(°)		(°)		(nT)	
						BGGM2010		1/12/2011		7 88		60 20		48,714	

Design					VH - Job #32K0111025						
Audit Notes:											
Version:		1 0		Phase:		ACTUAL		Tie On Depth:		0 0	
Vertical Section:		Depth From (TVD)		+N- S		+E- W		Direction			
		(usft)		(usft)		(usft)		(°)			
		0 0		0.0		0 0		150 32			

Survey Program		Date	1/16/2011		
From (usft)	To (usft)	Survey (Wellbore)		Tool Name	Description
100 0	6,050.0	Actual (VH - Job #32K0111025)		Keeper	Keeper Gyro

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 46	113 00	100 0	-0 2	0 4	113 00	0 4
	200 0	0 87	78 57	200 0	-0 2	1 5	96 28	1 5
	300 0	0 92	89 98	300 0	0 0	3 0	90 24	3 0
	400 0	0 84	88 04	400 0	0 0	4 6	89 84	4 6
	500 0	0 91	95 68	500 0	0 0	6 1	90 38	6 1
	600 0	0 93	110 50	599 9	-0 4	7 6	93 02	7 6
	700 0	0 88	101 71	699 9	-0 8	9 2	95 27	9 2
	800 0	1 05	118 70	799 9	-1 4	10 7	97 66	10 8
	900 0	1 03	116 57	899 9	-2 3	12 3	100 50	12 5
	1,000 0	0 84	141 43	999 9	-3 3	13 6	103 49	14 0
	1,100 0	0 73	167 75	1,099 9	-4 5	14 2	107 45	14 9

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Wellbore:	VH - Job #32K0111025	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0111025	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200.0	1.25	197.13	1,199.9	-6.1	14.0	113.63	15.3
1,300.0	1.95	171.83	1,299.8	-8.8	13.9	122.46	16.5
1,400.0	1.84	167.94	1,399.8	-12.1	14.5	129.88	18.9
1,500.0	0.78	159.37	1,499.7	-14.3	15.1	133.54	20.8
1,600.0	0.75	145.90	1,599.7	-15.5	15.7	134.67	22.0
1,700.0	0.67	156.82	1,699.7	-16.6	16.3	135.53	23.2
1,800.0	0.76	151.87	1,799.7	-17.7	16.8	136.47	24.4
1,900.0	0.75	158.11	1,899.7	-18.9	17.4	137.40	25.6
2,000.0	0.41	163.45	1,999.7	-19.8	17.7	138.24	26.6
2,100.0	0.37	223.95	2,099.7	-20.4	17.6	139.25	26.9
2,200.0	0.34	173.68	2,199.7	-20.9	17.4	140.28	27.2
2,300.0	0.89	111.78	2,299.7	-21.5	18.1	139.86	28.1
2,400.0	1.59	136.86	2,399.7	-22.8	19.8	139.03	30.2
2,500.0	2.12	136.38	2,499.6	-25.2	22.0	138.79	33.5
2,600.0	3.10	137.23	2,599.5	-28.5	25.2	138.56	38.0
2,700.0	3.11	130.42	2,699.4	-32.2	29.1	137.97	43.4
2,800.0	2.82	122.83	2,799.2	-35.3	33.2	136.79	48.5
2,900.0	2.17	121.04	2,899.1	-37.6	36.9	135.59	52.7
3,000.0	1.82	119.48	2,999.1	-39.4	39.9	134.65	56.1
3,100.0	1.31	125.78	3,099.0	-40.8	42.2	134.07	58.7
3,200.0	1.07	117.46	3,199.0	-41.9	43.9	133.67	60.7
3,300.0	0.88	134.16	3,299.0	-42.9	45.3	133.43	62.4
3,400.0	0.74	128.36	3,399.0	-43.8	46.4	133.39	63.8
3,500.0	0.68	140.09	3,499.0	-44.7	47.3	133.40	65.1
3,600.0	0.36	169.01	3,599.0	-45.5	47.7	133.62	65.9
3,700.0	0.35	160.38	3,699.0	-46.1	47.9	133.90	66.4
3,800.0	0.33	179.87	3,799.0	-46.6	48.0	134.19	66.9
3,900.0	0.26	170.23	3,899.0	-47.1	48.0	134.48	67.3
4,000.0	0.28	207.17	3,999.0	-47.6	47.9	134.79	67.5
4,100.0	0.14	163.18	4,099.0	-47.9	47.9	135.04	67.7
4,200.0	0.24	175.98	4,199.0	-48.2	47.9	135.20	68.0
4,300.0	0.11	187.11	4,299.0	-48.6	47.9	135.38	68.2
4,400.0	0.24	169.27	4,399.0	-48.9	47.9	135.54	68.4
4,500.0	0.14	229.36	4,499.0	-49.1	47.9	135.74	68.6
4,600.0	0.22	193.10	4,599.0	-49.4	47.8	135.97	68.7
4,700.0	0.28	223.95	4,699.0	-49.8	47.5	136.31	68.8
4,800.0	0.12	219.03	4,799.0	-50.0	47.3	136.60	68.8
4,900.0	0.25	202.22	4,899.0	-50.3	47.2	136.85	69.0
5,000.0	0.41	241.07	4,999.0	-50.7	46.8	137.31	69.0
5,100.0	0.43	214.74	5,099.0	-51.2	46.2	137.90	69.0
5,200.0	0.76	230.05	5,199.0	-51.9	45.5	138.75	69.0
5,300.0	1.01	224.93	5,299.0	-52.9	44.4	140.03	69.1
5,400.0	1.12	227.60	5,398.9	-54.2	43.0	141.57	69.2
5,500.0	0.97	225.01	5,498.9	-55.5	41.7	143.06	69.4

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Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Laguna Salado 22 Federal #6H	North Reference:	Grid
Wellbore:	VH - Job #32K0111025	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0111025	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,600 0	1 05	222 54	5,598 9	-56.8	40 5	144.49	69.7
5,700 0	1 00	217 50	5,698 9	-58.1	39 3	145 91	70 2
5,800 0	0 85	216 31	5,798 9	-59.4	38 4	147 14	70 7
5,900 0	0 85	211 48	5,898 9	-60 7	37 5	148 24	71 3
6,000 0	0 80	213 92	5,998 9	-61 9	36 8	149.27	72 0
6,050 0	0 86	251 78	6,048.8	-62.3	36 2	149 81	72.0



Scientific Drilling
Directional Drilling Operations

Project: Harroun
Eddy County, NM
Well: Laguna Salado 22 Federal #6H
Wellbore: VH - Job #32K0111025
Design: VH - Job #32K0111025

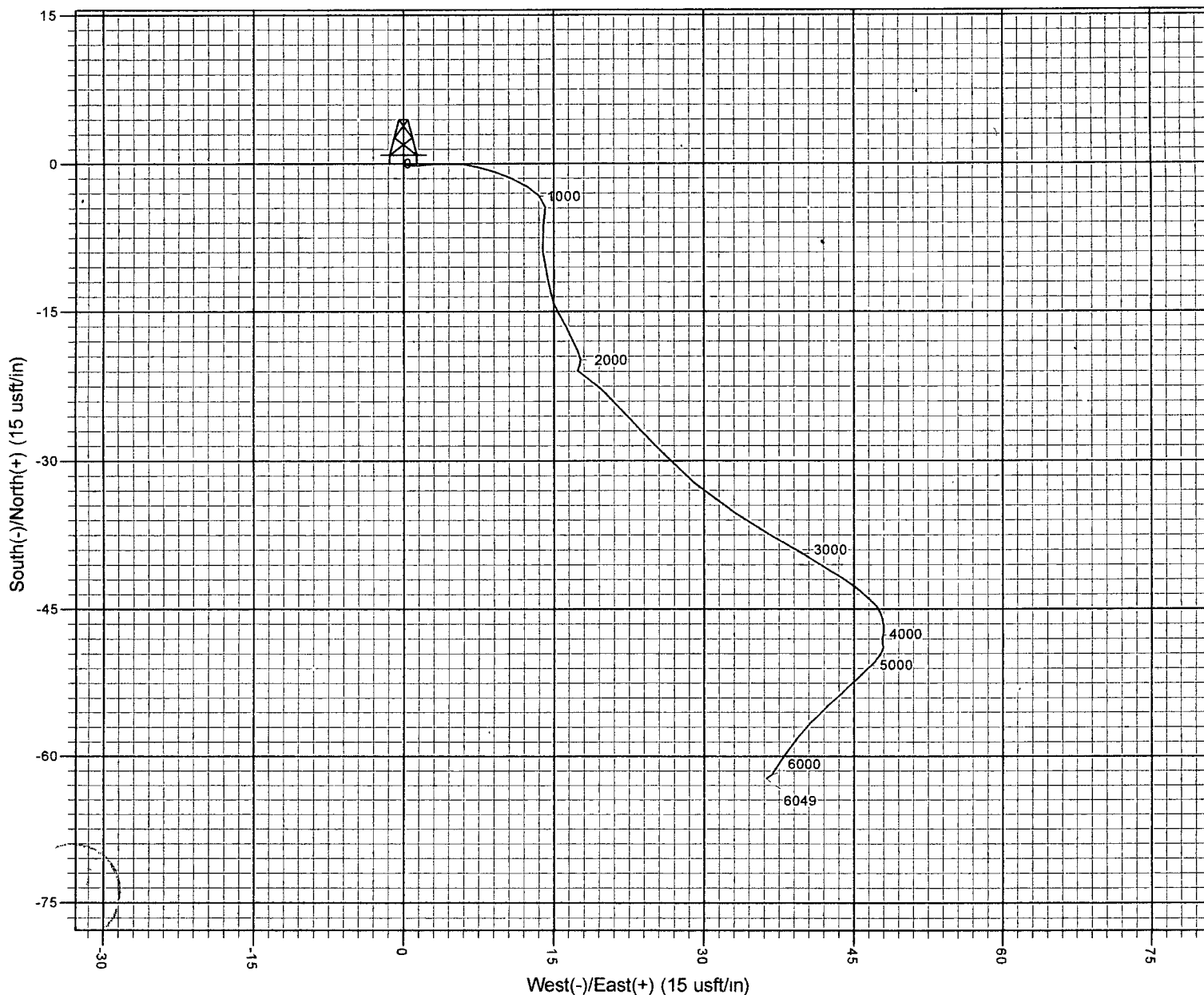


Azimuths to Grid North
True North: -0 19°
Magnetic North: 7 69°

Magnetic Field
Strength 48714.2snT
Dip Angle 60 20°
Date 1/12/2011
Model. BGGM2010

WELL DETAILS: Laguna Salado 22 Federal #6H
WELL @ 0.0usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0 0	471084 50	611315.64	32° 17' 40.610 N	103° 58' 23.120 W	



PROJECT DETAILS: Harroun
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 17' 40.610 N
Longitude: 103° 58' 23.120 W
Positional Uncertainty: 0.0
Convergence: 0.19
Local North: Grid