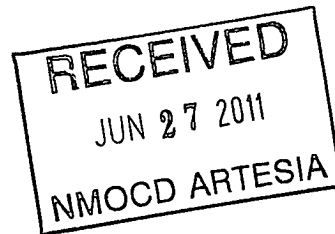


30-015-38059

DEVON ENERGY

Laguna Salado
Eddy County, NM
Spud 16 State #9H
VH - Job #32K1210987



Survey: Actual

SDI Standard Survey Report

21 December, 2010

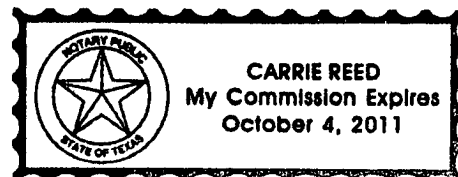
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 31st of December, 2010.

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 Spud 16 State #9H
Project:	Laguna Salado	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Spud 16 State #9H	North Reference:	Grid
Wellbore:	VH - Job #32K1210987	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1210987	Database:	EDM-Regulatory

Project	Laguna Salado		
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:	473,392.46 usft	Latitude:	32° 18' 3 600 N
From:	Lat/Long	Easting:	606,700.59 usft	Longitude:	103° 59' 16 800 W
Position Uncertainty:	0.0 usft	Slot Radius:	0"	Grid Convergence:	0 18 °

Well	Spud 16 State #9H, Directional (Weatherford)					
Well Position	+N/-S	0.0 usft	Northing:	473,392.46 usft	Latitude:	32° 18' 3.600 N
	+E/-W	0.0 usft	Easting:	606,700.59 usft	Longitude:	103° 59' 16.800 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K1210987				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	12/15/2010	7.90	60.20	48,724

Design	VH - Job #32K1210987			
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	358.89

Survey Program		Date	12/21/2010		
From (usft)	To (usft)	Survey (Wellbore)		Tool Name	Description
100.0	8,175.0	Actual (VH - Job #32K1210987)		Keeper	Keeper Gyro

Survey									
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance		
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0		
100.0	0.11	202.79	100.0	-0.1	0.0	202.79	0.1		
200.0	0.10	235.96	200.0	-0.2	-0.1	213.00	0.3		
300.0	0.24	220.85	300.0	-0.4	-0.4	219.42	0.6		
400.0	0.20	199.97	400.0	-0.8	-0.6	216.18	0.9		
500.0	0.39	167.66	500.0	-1.3	-0.5	203.31	1.4		
600.0	0.52	156.04	600.0	-2.0	-0.3	188.04	2.0		
700.0	0.65	144.93	700.0	-2.9	0.2	175.48	2.9		
800.0	0.61	147.94	800.0	-3.8	0.8	167.57	3.9		
900.0	0.55	149.39	900.0	-4.7	1.4	163.69	4.9		
1,000.0	0.37	187.80	1,000.0	-5.4	1.6	163.82	5.6		
1,100.0	0.33	202.35	1,100.0	-6.0	1.4	166.72	6.1		

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Spud 16 State #9H
Project:	Laguna Salado	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Spud 16 State #9H	North Reference:	Grid
Wellbore:	VH - Job #32K1210987	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1210987	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	0.34	233.57	1,200.0	-6.4	1.1	170.60	6.5
1,300.0	0.35	247.28	1,300.0	-6.7	0.5	175.39	6.7
1,400.0	0.38	245.16	1,400.0	-7.0	0.0	180.34	7.0
1,500.0	0.37	233.83	1,500.0	-7.3	-0.6	184.72	7.3
1,600.0	0.56	211.87	1,600.0	-7.9	-1.1	188.07	8.0
1,700.0	0.57	216.71	1,700.0	-8.7	-1.7	190.88	8.9
1,800.0	0.81	215.39	1,799.9	-9.7	-2.4	193.81	10.0
1,900.0	0.90	234.50	1,899.9	-10.7	-3.4	197.74	11.3
2,000.0	0.79	229.19	1,999.9	-11.6	-4.6	201.54	12.5
2,100.0	1.00	213.70	2,099.9	-12.8	-5.6	203.61	14.0
2,200.0	1.40	152.70	2,199.9	-14.6	-5.5	200.69	15.6
2,300.0	2.12	141.96	2,299.8	-17.2	-3.8	192.56	17.6
2,400.0	2.11	154.71	2,399.8	-20.3	-1.9	185.34	20.4
2,500.0	3.14	153.13	2,499.7	-24.4	0.1	179.70	24.4
2,600.0	3.92	147.44	2,599.5	-29.7	3.2	173.84	29.9
2,700.0	4.36	146.47	2,699.2	-35.8	7.1	168.70	36.5
2,800.0	3.76	147.03	2,799.0	-41.7	11.0	165.18	43.1
2,900.0	3.23	151.75	2,898.8	-46.9	14.1	163.22	49.0
3,000.0	2.93	155.98	2,998.6	-51.7	16.5	162.29	54.3
3,100.0	2.73	155.35	3,098.5	-56.2	18.6	161.74	59.2
3,200.0	2.51	152.29	3,198.4	-60.3	20.6	161.18	63.7
3,300.0	2.24	150.66	3,298.3	-64.0	22.5	160.59	67.8
3,400.0	1.99	148.29	3,398.3	-67.2	24.4	160.02	71.5
3,500.0	1.68	156.93	3,498.2	-70.0	25.9	159.69	74.6
3,600.0	1.39	158.46	3,598.2	-72.5	26.9	159.62	77.3
3,700.0	1.35	159.78	3,698.1	-74.7	27.8	159.61	79.7
3,800.0	0.94	168.79	3,798.1	-76.6	28.3	159.70	81.7
3,900.0	0.82	175.51	3,898.1	-78.1	28.6	159.92	83.2
4,000.0	0.78	173.68	3,998.1	-79.5	28.7	160.16	84.5
4,100.0	1.40	149.16	4,098.1	-81.2	29.4	160.11	86.4
4,200.0	0.60	173.92	4,198.1	-82.8	30.1	160.05	88.1
4,300.0	0.61	176.46	4,298.1	-83.9	30.2	160.22	89.1
4,400.0	0.59	176.46	4,398.1	-84.9	30.2	160.41	90.1
4,500.0	0.54	177.40	4,498.1	-85.9	30.3	160.58	91.1
4,600.0	0.48	180.27	4,598.1	-86.8	30.3	160.76	91.9
4,700.0	0.49	186.35	4,698.0	-87.6	30.2	160.96	92.7
4,800.0	0.48	185.55	4,798.0	-88.5	30.2	161.18	93.5
4,900.0	0.51	213.03	4,898.0	-89.3	29.9	161.50	94.1
5,000.0	0.53	215.40	4,998.0	-90.0	29.4	161.93	94.7
5,100.0	0.58	219.21	5,098.0	-90.8	28.8	162.41	95.2
5,200.0	0.56	215.88	5,198.0	-91.6	28.2	162.90	95.8
5,300.0	0.54	217.31	5,298.0	-92.3	27.6	163.36	96.4
5,400.0	0.73	220.32	5,398.0	-93.2	26.9	163.90	97.0
5,500.0	0.75	220.62	5,498.0	-94.2	26.1	164.53	97.7

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Spud 16 State #9H
Project:	Laguna Salado	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Spud 16 State #9H	North Reference:	Grid
Wellbore:	VH - Job #32K1210987	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1210987	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	0 72	218.19	5,598.0	-95.2	25.2	165.14	98.5
5,700.0	0 75	222.27	5,698.0	-96.1	24.4	165.75	99.2
5,800.0	0.73	216.29	5,798.0	-97.1	23.6	166.35	100.0
5,900.0	0.64	210.65	5,898.0	-98.1	22.9	166.85	100.8
6,000.0	0 67	223.56	5,998.0	-99.0	22.2	167.34	101.5
6,100.0	0 61	204.74	6,098.0	-99.9	21.6	167.79	102.3
6,200.0	0 65	197.19	6,198.0	-101.0	21.2	168.12	103.2
6,300.0	0.69	199.02	6,297.9	-102.1	20.9	168.45	104.2
6,400.0	0.77	207.71	6,397.9	-103.2	20.4	168.84	105.2
6,500.0	0.96	203.24	6,497.9	-104.6	19.7	169.33	106.5
6,600.0	0 97	213.95	6,597.9	-106.1	18.9	169.89	107.8
6,700.0	0 98	202.12	6,697.9	-107.6	18.1	170.44	109.1
6,800.0	1.15	209.38	6,797.9	-109.2	17.3	171.00	110.6
6,900.0	0.92	204.49	6,897.9	-110.9	16.5	171.54	112.1
7,000.0	0 52	208.14	6,997.9	-112.0	15.9	171.90	113.1
7,100.0	0.81	175.89	7,097.9	-113.1	15.8	172.06	114.2
7,200.0	1 31	163.78	7,197.8	-114.9	16.1	172.00	116.0
7,300.0	1 60	178.12	7,297.8	-117.4	16.5	172.00	118.5
7,400.0	2 02	170.13	7,397.8	-120.5	16.9	172.04	121.7
7,500.0	2 21	177.13	7,497.7	-124.2	17.3	172.09	125.4
7,600.0	2 68	186.94	7,597.6	-128.4	17.1	172.43	129.6
7,700.0	2 92	187.85	7,697.5	-133.3	16.4	172.97	134.3
7,800.0	2 77	192.74	7,797.4	-138.1	15.6	173.58	139.0
7,900.0	2.53	199.32	7,897.2	-142.6	14.3	174.28	143.3
8,000.0	2 06	194.31	7,997.2	-146.4	13.1	174.88	147.0
8,100.0	2 35	184.91	8,097.1	-150.2	12.5	175.24	150.7
8,175.0	2 12	151.99	8,172.0	-153.0	13.0	175.14	153.5



Project: Laguna Salado
Eddy County, NM
Well: Spud 16 State #9H
Wellbore: VH - Job #32K1210987
Design: VH - Job #32K1210987

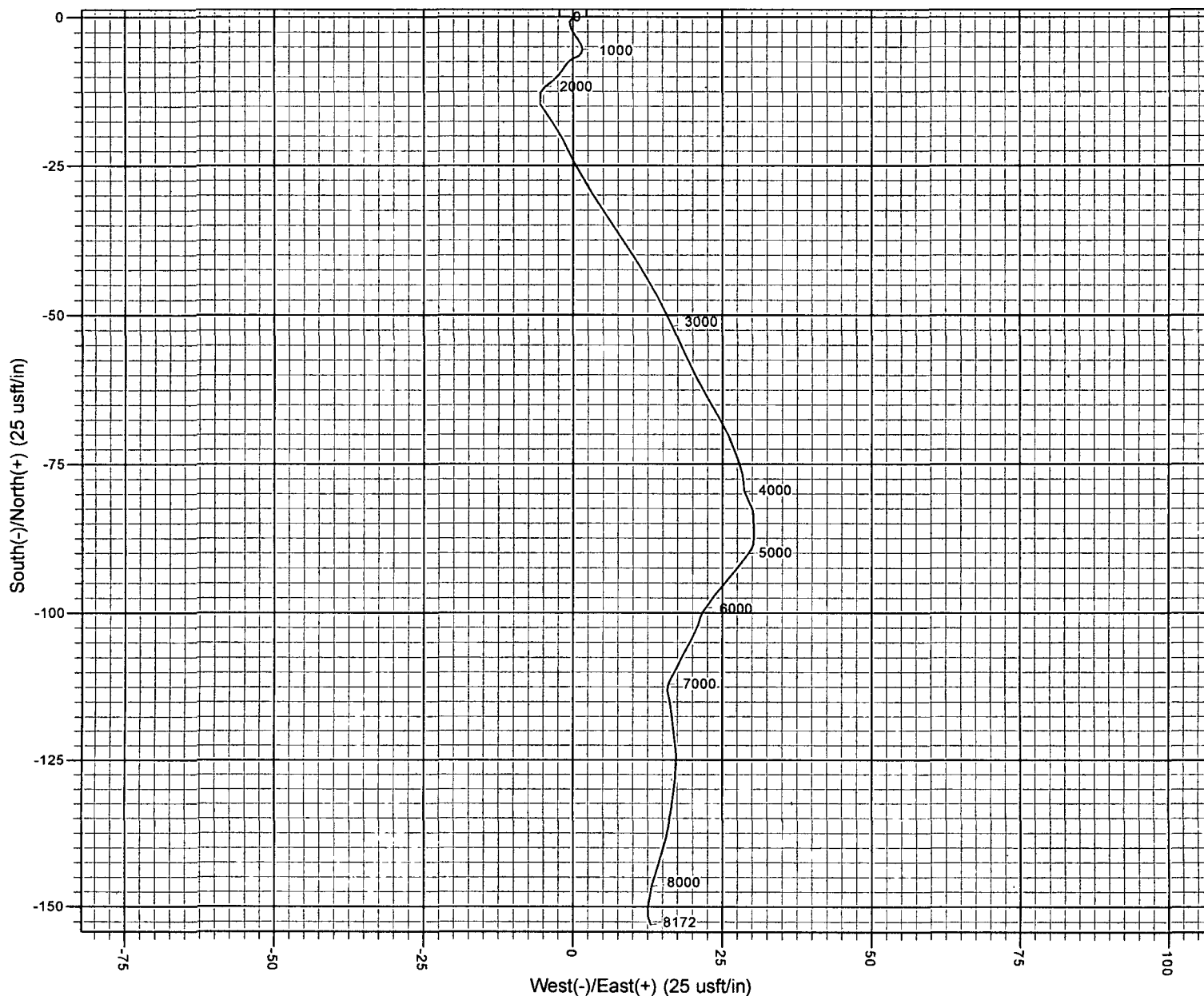


Azimuths to Grid North
True North: -0.18°
Magnetic North: 7.72°

Magnetic Field
Strength: 48724.5nT
Dip Angle: 60.20°
Date: 12/15/2010
Model: BGGM2010

WELL DETAILS: Spud 16 State #9H
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	473392.46	606700.59	$32^\circ 18' 3.600\text{ N}$	$103^\circ 59' 16.800\text{ W}$	



PROJECT DETAILS: Laguna Salado
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: $32^\circ 18' 3.600\text{ N}$
Longitude: $103^\circ 59' 16.800\text{ W}$
Positional Uncertainty: 0.0
Convergence: 0.18
Local North: Grid