

# Scientific Drilling

SUR: B-33-17s-32e, 10/N & 2150/E  
BHL: O-28-17s-32e, 97/S & 2166/E  
API # 30-025-38980

## CONOCOPHILLIPS

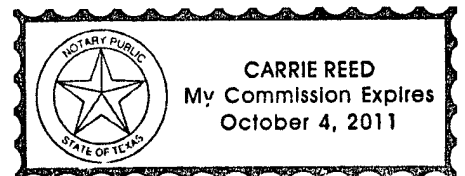
Field: Maljamar  
Site: Lea County, NM  
Well: MCA #412  
Wellpath: VH - Job #32K1108883  
Survey: 11/06/08

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

    *L. Hart*    .....Company Representative

Notorized this date 12th of January, 2009.

    *Carrie Reed*      
Notary Signature  
County of Midland  
State of Texas





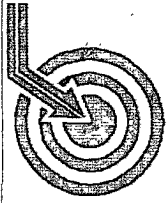
# Scientific Drilling International Survey Report

<b>Company:</b> CONOCOPHILLIPS	<b>Date:</b> 01/11/2009	<b>Time:</b> 21:22:46	<b>Page:</b> 1
<b>Field:</b> Maljamar	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> Lea County, NM, Grid North	
<b>Site:</b> Lea County, NM	<b>Vertical (TVD) Reference:</b>	<b>SITE</b> 0.0	
<b>Well:</b> MCA #412	<b>Section (VS) Reference:</b>	<b>Well</b> (0.00N,0.00E,352.19Azi)	
<b>Wellpath:</b> VH - Job #32K1108883	<b>Survey Calculation Method:</b>	Minjimum Curvature	<b>Db:</b> Sybase

<b>Survey:</b> 11/06/08	<b>Start Date:</b>	11/06/2008
KSRG 0'-4255'		
<b>Company:</b> Scientific Drilling Internatio	<b>Engineer:</b>	Melendez w/Schlumberger
<b>Tool:</b> Keeper,Keeper Gyro	<b>Tied-to:</b>	From Surface

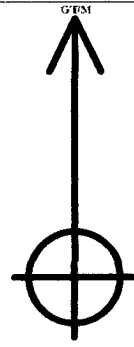
**Survey**

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.38	239.51	100.00	-0.13	-0.17	-0.29	0.38	0.33	239.51
200.00	0.34	246.52	200.00	-0.34	-0.45	-0.84	0.06	0.96	241.68
300.00	0.14	71.93	300.00	-0.39	-0.54	-1.00	0.48	1.13	241.84
400.00	0.11	238.33	400.00	-0.41	-0.55	-0.97	0.25	1.11	240.43
500.00	0.42	241.99	500.00	-0.58	-0.77	-1.37	0.31	1.57	240.67
600.00	0.60	255.87	599.99	-0.76	-1.07	-2.20	0.22	2.45	244.08
700.00	0.77	266.11	699.98	-0.77	-1.24	-3.38	0.21	3.60	249.80
800.00	0.77	262.91	799.98	-0.72	-1.37	-4.72	0.04	4.91	253.78
900.00	0.78	273.07	899.97	-0.58	-1.42	-6.06	0.14	6.23	256.83
1000.00	0.77	299.66	999.96	-0.04	-1.05	-7.33	0.36	7.40	261.85
1100.00	1.17	323.61	1099.94	1.26	0.10	-8.52	0.56	8.52	270.71
1200.00	1.41	323.96	1199.92	3.24	1.92	-9.85	0.24	10.03	281.04
1300.00	1.36	332.87	1299.89	5.45	3.97	-11.11	0.22	11.80	289.67
1400.00	1.25	341.01	1399.86	7.63	6.06	-12.01	0.22	13.45	296.78
1500.00	1.19	345.39	1499.84	9.74	8.10	-12.62	0.11	15.00	302.67
1600.00	0.99	346.33	1599.82	11.63	9.94	-13.09	0.20	16.44	307.21
1700.00	0.84	347.73	1699.81	13.22	11.50	-13.45	0.15	17.69	310.52
1800.00	0.84	16.42	1799.80	14.62	12.92	-13.40	0.42	18.61	313.95
1900.00	0.90	14.89	1899.79	16.01	14.38	-12.99	0.06	19.38	317.90
2000.00	1.64	34.13	1999.76	17.80	16.32	-11.99	0.84	20.25	323.71
2100.00	1.86	38.66	2099.72	19.98	18.77	-10.17	0.26	21.35	331.56
2200.00	1.93	47.90	2199.66	22.05	21.17	-7.91	0.31	22.60	339.52
2300.00	1.91	51.31	2299.61	23.85	23.34	-5.36	0.12	23.95	347.08
2400.00	1.58	55.52	2399.56	25.33	25.16	-2.92	0.35	25.33	353.39
2500.00	1.37	40.24	2499.53	26.74	26.86	-1.01	0.44	26.87	357.85
2600.00	1.36	40.72	2599.50	28.33	28.67	0.54	0.02	28.67	1.07
2700.00	1.34	38.29	2699.47	29.93	30.48	2.04	0.06	30.55	3.82
2800.00	1.32	42.15	2799.44	31.48	32.26	3.53	0.09	32.45	6.25
2900.00	1.33	30.02	2899.42	33.13	34.11	4.89	0.28	34.46	8.15
3000.00	1.19	26.49	2999.39	34.91	36.05	5.93	0.16	36.53	9.34
3100.00	1.02	27.23	3099.37	36.50	37.77	6.80	0.17	38.38	10.21
3200.00	1.01	5.52	3199.36	38.08	39.44	7.29	0.38	40.11	10.48
3300.00	0.86	0.49	3299.35	39.68	41.07	7.38	0.17	41.72	10.19
3400.00	0.97	344.82	3399.33	41.26	42.63	7.17	0.27	43.23	9.55
3500.00	4.86	337.86	3499.18	46.21	47.38	5.35	3.90	47.68	6.44
3600.00	5.49	337.25	3598.78	54.94	55.71	1.90	0.63	55.74	1.96
3700.00	4.79	338.51	3698.37	63.61	64.01	-1.48	0.71	64.02	358.68
3800.00	4.54	338.57	3798.04	71.52	71.58	-4.45	0.25	71.72	356.44
3900.00	4.22	341.49	3897.75	78.98	78.75	-7.07	0.39	79.07	354.87
4000.00	3.76	342.65	3997.51	85.83	85.37	-9.21	0.47	85.86	353.84
4100.00	3.56	341.07	4097.30	92.11	91.44	-11.20	0.22	92.12	353.02
4200.00	3.78	349.17	4197.10	98.45	97.61	-12.82	0.56	98.45	352.52
4255.00	3.43	335.99	4251.99	101.84	100.89	-13.83	1.63	101.84	352.19



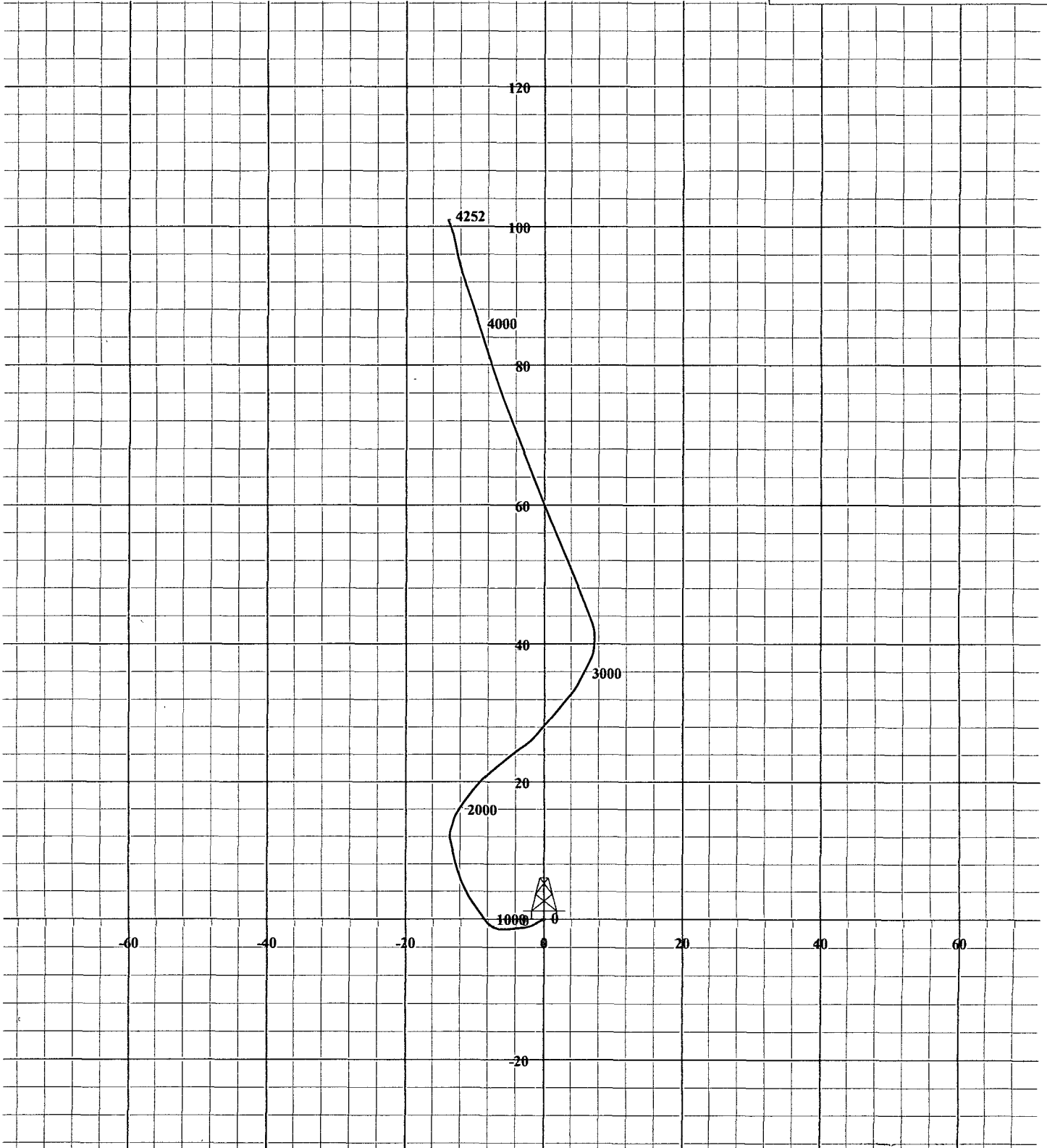
Scientific  
Drilling

Field: Maljamar  
Site: Lea County, NM  
Well: MCA #412  
Wellpath: VH - Job #32K1108883  
Survey: 11/06/08



Azimuth to Grid North  
True North: 0 00'  
Magnetic North: 0 00'  
Magnetic Field  
Strength: 0.1  
Dip Angle: 0 00'  
Date: 01/11/2009  
Model: g72000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]