

Computalog Drilling Services

Client : CHESAPEAKE OPERATING, INC.
 Well : WALTER WELL NO. 1 - L-4-17S-37e
 Location : LEA COUNTY, NEW MEXICO
 License :
 Comment : (NABORS DRILLING RIG #33

Page: 1
 Date : 9/19/02
 File : #50532

UWI #:

Vertical Section Calculated Along Azimuth 0.00°

KB Elevation = 22.50ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg
	ft	deg	deg	ft	ft	ft	ft	%/100
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

CDS GYROSCOPIC MULTISHOT SURVEY FROM SURFACE TO 4270 FT MD

DATE: SEPTEMBER 18, 2002

GRID CORRECTION 08 DEGREES 02 MINUTES 26 SECONDS EAST

ALL DIRECTIONS FROM NEW MEXICO LAMBERT GRID NORTH

1	200.00	0.75	125.00	199.99	-0.75	1.07	-0.75	0.37
2	400.00	0.75	169.00	399.98	-2.79	2.39	-2.79	0.28
3	600.00	0.75	155.00	599.96	-5.26	3.20	-5.26	0.09
4	800.00	0.75	182.00	799.95	-7.75	3.70	-7.75	0.18
5	1000.00	0.50	144.00	999.93	-9.77	4.17	-9.77	0.24
6	1200.00	0.25	208.00	1199.93	-10.86	4.48	-10.86	0.23
7	1400.00	0.50	228.00	1399.93	-11.83	3.63	-11.83	0.14
8	1600.00	0.25	197.00	1599.92	-12.83	2.85	-12.83	0.16
9	1800.00	0.25	218.00	1799.92	-13.59	2.45	-13.59	0.05
10	2000.00	0.50	186.00	1999.92	-14.80	2.09	-14.80	0.16
11	2200.00	0.50	215.00	2199.91	-16.38	1.50	-16.38	0.13
12	2400.00	0.50	206.00	2399.90	-17.88	0.62	-17.88	0.04
13	2600.00	0.25	213.00	2599.90	-19.03	0.00	-19.03	0.13
14	2800.00	0.50	227.00	2799.89	-19.99	-0.88	-19.99	0.13
15	3000.00	0.25	37.00	2999.89	-20.24	-1.25	-20.24	0.37
16	3200.00	0.75	25.00	3199.88	-18.71	-0.44	-18.71	0.25
17	3400.00	0.50	40.00	3399.87	-16.85	0.68	-16.85	0.15
18	3600.00	0.25	27.00	3599.87	-15.79	1.44	-15.79	0.13
19	3800.00	0.25	9.00	3799.86	-14.97	1.70	-14.97	0.04
20	4000.00	0.50	5.00	3999.86	-13.67	1.85	-13.67	0.13
21	4200.00	0.75	338.00	4199.85	-11.59	1.43	-11.59	0.19
22	4270.00	0.50	295.00	4269.84	-11.04	0.98	-11.04	0.73

Bottom Hole Closure 11.08ft Along Azimuth 174.90°

This is to certify that the Survey Readings from
 0 to 4270 were obtained by
 our Field Surveyors and represent, to the best of
 our knowledge, a true and accurate survey of the
 well at the time the survey was run.

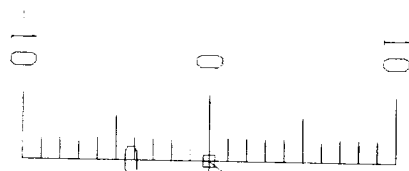
COMPUTALOG

Wellbore knowledge and solutions
 DRILLING SERVICES, INC.

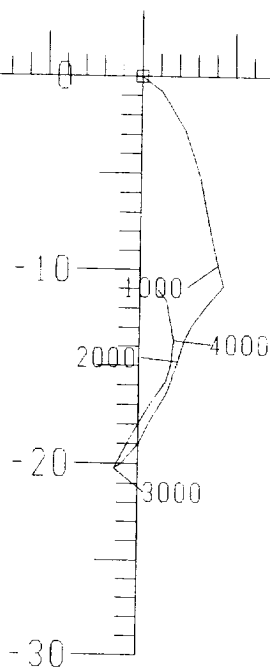
Survey Supervisor

CHESAPEAKE OPERATING, INC.
WALTER 4 WELL NO. 1
LEA COUNTY, NEW MEXICO
(NABORS DRILLING RIG #33)

Departure Scale 1 inch : 10 ft



Latitude Scale 1 inch : 10 ft



COMPUTALOG
Wellbore knowledge
and solutions
DRILLING
SERVICES, INC.

