COMPUTED DIPLOG

ATLAS WIRELINE SERVICES

DIPMETER ANALYSIS

Run No.	ONE
Date	12-MAY-82
Depth-Driller	2750
Depth-Logger	2748
Bottom Log Interval	2748
Top Log Interval	1400
Casing-Driller	13 3/8 @ 1400
Casing-Logger	1400
Bit Size	12 1/4
Type Fluid in Hole	LIGNOSULFONATE
Density	9.2
Viscosity	40
Fluid Loss	6.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp.	.95 @ 70
Rmf @ Meas. Temp.	.75 @ 70
Rmc @ Meas. Temp.	1.2 @ 70
Rm @ BHT	.55 @ 120
Time Since Circ.	12 HRS
Max. Rec. Temp.	120
Equip. Location	3-1-E
Recorded By	JOHNSON
Witnessed By	ZIMMER

Company	OREGON NATURAL GAS DEVELOPMENT CORP.
Well	SHOWCO-3
Field	WILDCAT
County	COLUMBIA
State	OREGON
Location	1980' FSL & 1980' FEL
Sec.	24
Twp.	6N
Rge.	1W
Permanent Datum	GROUND LEVEL
Elev.	1475
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING
Elev.: K.B.	1488
D.F.	1485
G.L.	1475

Tested for: OREGON GEOLOGY AND MINERAL INDUSTRIES 48" search per customers request.

Run 1 - RECORDED FROM 1400 FEET TO 2748 FEET WITH 4 ARM DIPMETER TOOL IN CASING AND OPEN HOLE.

DIPMETER DATA			
RUN NO. 1	RUN NO.	RUN NO.	RUN NO.
DATE RUN 12-MAY-82			
DEPTH DRILLER 2750			
DEPTH LOGGER 2748			
BTM LOG INTERVAL 2748			
TOP LOG INTERVAL 1400			
CASING-DRILLER 13 3/8 @ 1400			
CASING-LOGGER 1400			
BIT SIZE 12 1/4			
TYPE FLUID IN HOLE LIGNOSULFONATE			
DENSITY 9.2			
VISCOSITY 40			
FLUID LOSS 6.0			
SOURCE OF SAMPLE FLOWLINE			
RM @ MEAS. TEMP. .95 @ 70			
RMF @ MEAS. TEMP. .75 @ 70			
RMC @ MEAS. TEMP. 1.2 @ 70			
RM @ BHT .55 @ 120			
TIME SINCE CIRC. 12 HRS			
MAX. REC. TEMP. 120			
EQUIP. LOCATION 3-1-E			
RECORDED BY JOHNSON			
WITNESSED BY ZIMMER			

ARBITRARY DESCRIPTION 38 2987

VERTICAL DISPLACEMENT FOR VARIOUS HORIZONTAL DISTANCES AND ANGLES OF DIP

DIP in degrees	100	1000	5280	DIP in degrees	100	1000	5280
1	1.75	17.5	92.2	21	36.4	364	1918
2	3.50	35.0	184.4	22	39.6	396	2086
3	5.25	52.5	277.0	23	42.4	424	2237
4	7.00	70.0	369.0	24	45.0	450	2373
5	8.75	87.5	461.3	25	47.5	475	2505
6	10.50	105.0	553.5	26	49.9	499	2630
7	12.30	123.0	648.0	27	52.3	523	2756
8	14.00	140.0	738.0	28	54.6	546	2878
9	15.80	158.0	832.7	29	57.0	570	3005
10	17.60	176.0	926.0	30	59.5	595	3136
11	19.40	194.0	1021.0	31	62.0	620	3268
12	21.30	213.0	1122.0	32	64.7	647	3410
13	23.10	231.0	1217.0	33	67.5	675	3558
14	25.00	250.0	1317.0	34	70.5	705	3715
15	26.90	269.0	1417.0	35	73.7	737	3883
16	28.70	287.0	1512.0	36	77.3	773	4072
17	30.60	306.0	1612.0	37	81.2	812	4278
18	32.50	325.0	1712.0	38	85.7	857	4515

GRAPHIC PRESENTATION

POOR ← → EXCELLENT

BIT SIZE 12 1/4 IN

CALIPER 24 IN 6 IN 24 IN

DIP ANGLE 0 90

DEVIATION ANGLE 0 DEG

DEVIATION AZIMUTH 0 DEG E. AZIMUTH

2000

2100

2200

2300

2400

2500

2600

2700

2800

DIP ANGLE 0 10 20 30 40 50 60 70 90

DEVIATION ANGLE 0 DEG

DEVIATION AZIMUTH 0 DEG E. AZIMUTH

BIT SIZE 12 1/4 IN

CALIPER 24 IN 6 IN 24 IN