

PARAMOUNT RESOURCES LTD.

DAILY DRILLING REPORT

FOR 24 HR PERIOD ENDING 98-Dec-21 00:00

Yr - Mon - Day - Time

WELL NAME PARAMOUNT et AL NETLA LOCATION M - 23

Day 6 Depth 823 Metres last 24 hr 54 Rotating hrs 6

Activity at report time

DRILLING MUD PROPERTIES AT SHAKER/SUCTION/PIT

Wt 915 Vis 70 WL 19 Gels Solids 2.5 % PV 9 YP 1.4 pH
Oil 93 % Sand 0.005 % Cake 2 PPMCL 200,000 PPMCa 115,555

BIT RECORD

BIT NO.	SIZE mm	MAKE & TYPE	SER. NO.	BIT		DEPTH OUT m	m DRLD TODAY	CUM m. DRLD	Rot hrs TODAY	CUM. Rot hr	m/hr	Dull Cond.		
				WT	RPM							T	B	G
1	222	PEND.	144966	4000	160	779	10	280	1.50	52.25	5.35	3	1	1
2	222	REED	MB3190	6000	MTR.	823	44	324	4.25	4.25	10.35	1	1	1

CIRCULATION RECORD

BIT NO.	JETS - mm			PUMP				ANN. VEL.		JET VEL.	HHP	SURF. PRESS. kPa
	1	2	3	STROKE	SPM	LINER	m ³ /MIN	DP	DC			
1	10.3	10.3	10.3	203	83	165	1.0044	14	44	67		4800
2	11.1	11.1	11.1	203	105	165	1.24	17.2	54.3	71.2		8000

DEVIATION SURVEYS

MUD & CHEMICALS ADDED

2 ° at 501 m 3 1/3 ° at 758 m
2 5/8 ° at 560 m 3 1/2 ° at 771 m
3 1/5 ° at 673 m 3 3/8 ° at 780 m
3 1/2 ° at 730 m 3 1/4 ° at 790 m

BOTTOM HOLE ASSEMBLY

TIME ANALYSIS

TOOL	ID	OD	LENGTH	WEIGHT	OPERATION	TODAY	CUM.
	mm	mm	m	daN			
BIT		222	0.25		1. Drilling	5.75	
MUD MOTOR	N/A	170	7.17		2. Trips	8.75	
FLOAT SUB	58	164	0.71		3. Rig Service	0.50	
MONEL D. C.	83	160	9.37		4. Deviation Surveys	4.25	
PULSER SUB	83	158	1.17		5. Ream & Cond. Hole		
MONEL D. C.	83	162	9.19		6. Mix & Cond. Mud		
X. O. SUB	82	153	0.36		7. Circulation	1.00	
16 - DRILL COLLARS	58	159	147.7		8. Rig Repair SLIP & CUT	1.00	
X. O. SUB	60	153	0.78		9. Run Casing & Cement		
					10. Fishing		
					11. Logging		
					12. Coring		
					13. Formation Testing		
					14. Waiting on:		
					15. Nipple Up & Test BOPS		
COSTS					16. Drilling Out		
DAILY	\$31,490				17. Lost Circ.		
CUMMULATIVE	\$418,087				18. Laying Down DP & BOP's		
					19. Plug & Abandon		
					20. Rig up - Tear out		
SUPERVISOR AL IRONSIDE .					21. HANDLE TOOLS	2.75	
PHONE : 1-600-700-5042					TOTAL		

COSTS

DAILY \$31,490
CUMMULATIVE \$418,087

SUPERVISOR AL IRONSIDE

PHONE : 1-600-700-5042

HIGHWOOD WELLSITE SERVICES INC.
DAILY GEOLOGICAL WELL REPORT
1998-12-23

Paramount et al Netla 1-23

Report To: PAUL COLLENS

Report From: JEFF BOULTER

Spud Date: December 17

Telephone: 1600 700 5042

Gd. Elevation: 273.1

Days from Spud: 6

Depth @ 6:00: 1045 m

K.B. Elevation: 279.8

Status @ 8:00: Running in hole

Formation: Fort Simpson

24 hr Progress: 91 m

Average ROP: 7 m/hr

OPERATIONS SUMMARY - Last 24 Hours

Directional drilled to 1045.0 m, bit played out, pull out of hole, pick up new bit and mud motor, run in hole

SURVEYS

1026.28 md / 3.0 Inc / 193.8 Az / 1025.67 TVD / 24.51 m N / -3.24 E / 1.62 Dog leg

MUD PROPERTIES

Type: Invert
Density: 926 kg/m³
Viscosity: 58 cP
Water Loss: 10 cm³/20 min
pH: 10
Filter Cake: min

SAMPLE TOPS

Formation	Sample Depth	TVD	Subsca	Prognosis Subsca	Change
Scatter	113.0	200		162.5	
Garbutt	245.0	200		136.8	
Banff	297.0	200		34.8	
Exshaw	487.0	200		-207.2	
Kotcho	502.0	200		-221.2	
Tetcho	867.0	200		-598.2	
Kakisa	942.0	200		-690.2	

FORECAST ACTIVITIES

Run in hole and directional drill ahead

Section 1 (Const Build/Turn)

	Inc	Dir	Tvd	Vsec	Lat	Values to be applied				
						Dep	Build	Turn	Dleg	T Face
978.8	0.90	254.89	978.2	12.1	25.7	-2.8	0.1	-30.0	0.5	78.0
1000.0	0.97	233.69	999.4	12.4	25.6	-3.1	0.1	-30.0	0.5	78.9
1040.0	1.10	193.69	1039.4	12.5	25.0	-3.5	0.1	-30.0	0.6	80.2

Section 2 (Const Build/Turn)

MD	Inc	Dir	Tvd	Vsec	Lat	Values to be applied				
						Dep	Build	Turn	Dleg	T Face
1058.7	1.17	175.00	1058.1	12.4	24.6	-3.6	1.0	0.0	1.0	0.0
1080.0	1.88	175.00	1079.4	12.2	24.1	-3.5	1.0	0.0	1.0	0.0

Section 3 (Hold Section)

MD	Inc	Dir	Tvd	Vsec	Lat	Values to be applied				
						Dep	Build	Turn	Dleg	T Face
1083.7	2.00	175.00	1083.1	12.1	24.0	-3.5	0.0	0.0	0.0	0.0
1120.0	2.00	175.00	1119.4	11.5	22.7	-3.4	0.0	0.0	0.0	0.0
1160.0	2.00	175.00	1159.4	10.9	21.3	-3.3	0.0	0.0	0.0	0.0
1200.0	2.00	175.00	1199.3	10.3	19.9	-3.1	0.0	0.0	0.0	0.0
1240.0	2.00	175.00	1239.3	9.6	18.5	-3.0	0.0	0.0	0.0	0.0
1280.0	2.00	175.00	1279.3	9.0	17.1	-2.9	0.0	0.0	0.0	0.0
1320.0	2.00	175.00	1319.3	8.4	15.7	-2.8	0.0	0.0	0.0	0.0
1360.0	2.00	175.00	1359.2	7.8	14.3	-2.7	0.0	0.0	0.0	0.0
1400.0	2.00	175.00	1399.2	7.1	13.0	-2.5	0.0	0.0	0.0	0.0
1440.0	2.00	175.00	1439.2	6.5	11.6	-2.4	0.0	0.0	0.0	0.0
1480.0	2.00	175.00	1479.2	5.9	10.2	-2.3	0.0	0.0	0.0	0.0
1520.0	2.00	175.00	1519.1	5.3	8.8	-2.2	0.0	0.0	0.0	0.0
1560.0	2.00	175.00	1559.1	4.6	7.4	-2.0	0.0	0.0	0.0	0.0
1600.0	2.00	175.00	1599.1	4.0	6.0	-1.9	0.0	0.0	0.0	0.0
1640.0	2.00	175.00	1639.1	3.4	4.6	-1.8	0.0	0.0	0.0	0.0
1680.0	2.00	175.00	1679.0	2.8	3.2	-1.7	0.0	0.0	0.0	0.0
1720.0	2.00	175.00	1719.0	2.1	1.8	-1.6	0.0	0.0	0.0	0.0

Section 4 (Const Build/Turn)

MD	Inc	Dir	Tvd	Vsec	Lat	Values to be applied				
						Dep	Build	Turn	Dleg	T Face
1726.0	2.00	175.00	1725.0	2.0	1.6	-1.5	-1.0	0.0	1.0	180.0
1760.0	0.87	175.00	1759.0	1.6	0.8	-1.5	-1.0	0.0	1.0	180.0

Section 5 (Hold Section)

MD	Inc	Dir	Tvd	Vsec	Lat	Values to be applied				
						Dep	Build	Turn	Dleg	T Face
1786.0	0.00	175.00	1785.0	1.6	0.6	-1.5	0.0	0.0	0.0	0.0
1800.0	0.00	175.00	1799.0	1.6	0.6	-1.5	0.0	0.0	0.0	0.0
1840.0	0.00	175.00	1839.0	1.6	0.6	-1.5	0.0	0.0	0.0	0.0
1880.0	0.00	175.00	1879.0	1.6	0.6	-1.5	0.0	0.0	0.0	0.0
1920.0	0.00	175.00	1919.0	1.6	0.6	-1.5	0.0	0.0	0.0	0.0
1960.0	0.00	175.00	1959.0	1.6	0.6	-1.5	0.0	0.0	0.0	0.0
1997.0	0.00	175.00	1996.0	1.6	0.6	-1.5	0.0	0.0	0.0	0.0

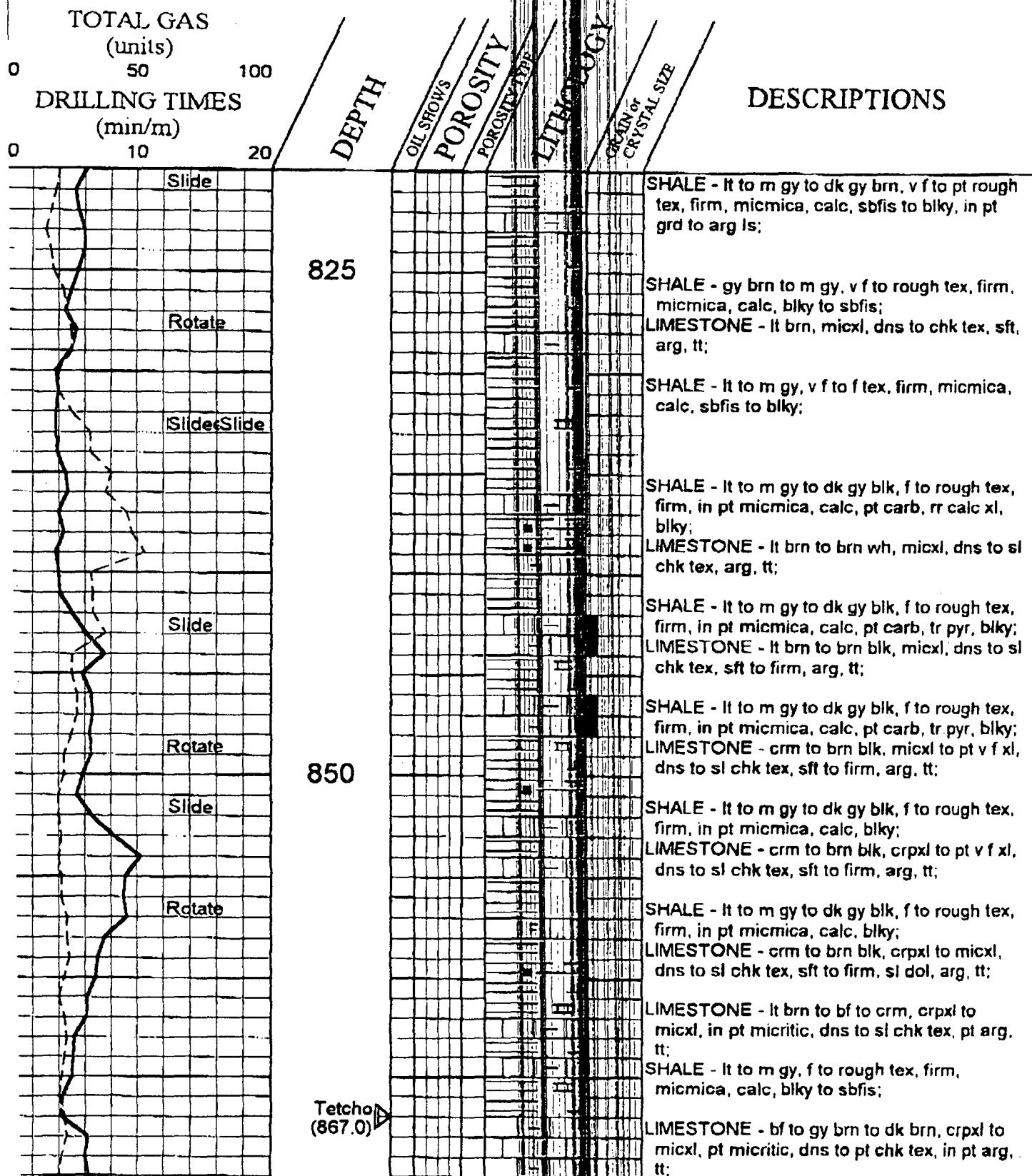
HIGHWOOD WELLSITE SERVICES INC. 41 Riverview Circle COCHRANE, Alberta (403) 932-2916		COMPOSITE WELL HISTORY DRILLING TIME LITHOLOGY LOG	
COMPANY: PARAMOUNT RESOURCES LTD. WELL: Paramount et al Netla M-23 FIELD: PROVINCE: NorthWest Ter. LOCATION: M-23 60 Deg 50' 123 Deg 00'			
COORDINATES: ELEVATIONS: GD 273.1 m LOG MEASURED FROM KB 106.2 m 10.7 m ABOVE GROUND			
WELL TYPE: Gas Exploration TOTAL DEPTH: SPUD DATE: December 17, 1998 T.D. DATE: LICENCE No.: WID 1841 AFE No.: 17168			
CONTRACTOR: Precision Drilling MUD TYPE: Invert MUD UP @: 500.0m SAMPLES: 5 meter intervals Paramount: 500.0 - Total Depth N.E.B.: 500.0 - Total Depth DSTs:		CORES: OPEN HOLE LOGS:	
SUPERVISION GEOLOGICAL: JEFF BOULTER		DRILLING: AL IRONSIDE	

CASING DEPTH	SURFACE: 499 m
	INTERMEDIATE: 1840 m
	MAIN: m
CASING SIZE	SURFACE: 20.42 mm
	INTERMEDIATE: 77 mm
	MAIN: mm
HOLE SIZE	SURFACE: 339.73 mm
	INTERMEDIATE: 222 mm
	MAIN: mm

REMARKS:

CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



WOB 10000
RPM 40

875

WOB 4800

Slide

WOB 10000
RPM 25

Rotate

Dec22/98

900

Slide

Rotate

925

Slide

Cpxl, chk to dns tex, fri to rd, pt arg, tt;

LIMESTONE - bf to gy brn to dk brn, crpxl to micxl, pt micritic, dns to pt chk tex, hd to fri, in pt arg, tt;

LIMESTONE - lt brn to crm, tan, crpxl to micxl, in pt micritic, dns to pt chk tex, hd to pt fri, sl arg, mnr sh strg, n visible por;

LIMESTONE - crm to mottle brn offwhite, pt tan, crpxl to micxl, pt micritic, dns to sl chk tex, hd to fri, arg, tt;

LIMESTONE - m to dk brn gy, brn, crpxl to occ micxl, micritic, dns tex, hd, arg, tt;

LIMESTONE - m to dk brn gy, brn, crpxl to occ micxl, micritic, dns tex, hd, arg, tt, mnr sh strg;

LIMESTONE - m to dk brn gy, offwhite to lt brn, crpxl to occ micxl, micritic, dns to chk tex, hd to pt fri, arg, tt;

LIMESTONE - tan to lt brn, crpxl, micritic, dns tex, hd, pt arg, tt;

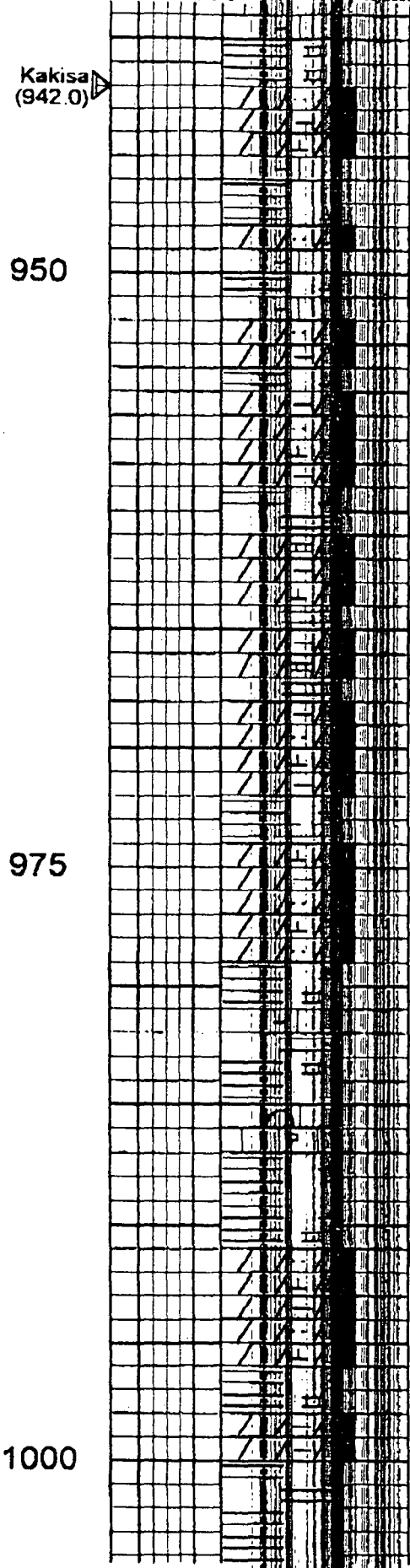
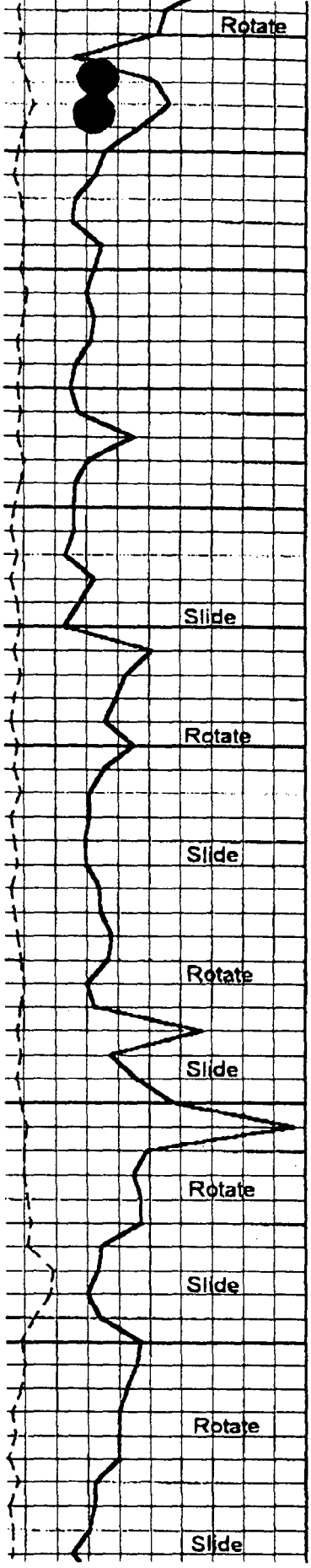
LIMESTONE - tan to lt brn to brn offwhite, crpxl to pt micxl, micritic, dns to sl chk tex, hd to pt fri, pt arg, tt;

LIMESTONE - m to dk gy brn to tan to brn offwhite, crpxl to occ micxl, micritic, dns to sl chk tex, hd to fri, pt arg, tt, mnr calc sh strg;

LIMESTONE - m brn gy to tan to offwhite, crpxl to micxl, micritic, dns tex, hd to pt fri, arg, tt;

SHALE - m to dk brn gy, f tex, firm to hd, calc, blk;

LIMESTONE - m to dk brn gy, crpxl, micritic,



DOLOMITE - gy gn to gy brn offwhite, v f xl, sl
 slty, calc, n visible por;

DOLOMITE - lt gy to gy brn, v f to f xl, micsuc,
 slty, mod packed to dns, arg, n visible por;
 LIMESTONE - lt brn offwhite, micmica, chk
 tex, arg, sft, tt;
 SHALE - gy to gy brn blk, v f to f tex, firm, dol,
 blk;

DOLOMITE - lt gy brn to gy, v f xl, pt micsuc,
 pt calc, mod packed to dns, hd to firm, in pt
 arg, n visible por;
 SHALE - lt to m gy brn, v f to f tex, firm, dol,
 blk;

DOLOMITE - lt gy gn to gy brn, v f xl, in pt
 micsuc, slty, calc, mod packed to dns, firm
 to hd, pt arg, n visible por;
 SHALE - lt to m gy brn, f tex, firm, pt dol, blk;

SHALE - lt to m gy to brn gy, v f to f tex, firm,
 mcromicaceous, sl dol, slty, blk to sbfis;
 DOLOMITE - lt gy gn to gy brn, v f xl, in pt
 micsuc, slty, calc, mod packed to dns, firm
 to hd, pt arg, n visible por;

SHALE - lt to m gy to brn gy, v f to f tex, firm,
 mcromicaceous, sl dol, slty, blk to sbfis;
 DOLOMITE - lt gy gn to gy brn, v f xl, in pt
 micsuc, slty, calc, mod packed to dns, firm
 to hd, pt arg, n visible por;

LIMESTONE - mot brn offwhite yel, micxl to pt
 crpxl, in pt micritic, sl dol, mnr pyr, rr fos
 deb, n visible por;
 SHALE - lt to m gy brn, v f to rough tex, firm,
 sl micmica, in pt calc, blk;

SHALE - lt to m gy to brn gy, v f to f tex, firm,
 mcromicaceous, sl dol, slty, blk to sbfis;
 DOLOMITE - lt gy gn to gy brn, v f xl, in pt
 micsuc, slty, calc, mod packed to dns, firm
 to hd, pt arg, n visible por;

DOLOMITE - lt brn to gy brn, v f xl to pt micxl,
 sl micsuc, calc, mod ind, firm, in pt arg, n
 visible por;
 SHALE - m gy to gy brn, v f to f tex, firm, pt
 micmica, sbfis to blk;

SHALE - m to pt dk gy to gy brn, v f to f tex,
 firm, micmica, sbfis to blk;

