

DAVE WILSON OILFIELD CONSULTING LTD. DAILY DRILLING REPORT

WELL	Para et al Nella	M-23	REPORT #	26	DATE	10-Jan-99
DEPTH	2158	PROGRESS	26	OPERATION	800	Drilling 156 mm Hole

DRILLING FLUID / SOLIDS CONTROL

TYPE	Oil Base	TIME CHK	200	ENGINEER	Jody Kereilik	MOBILE	
LOG BOOK	CHECK		mg/L	ADDITIVES			
DENSITY	1060	SALINITY		MILBAR	80	MUD GRAD (KPA/M)	9.27
VISCOSITY	46	CHLORIDES	171428	DIESEL		CYCLE MAIN HOLE(MIN)	135
W.L.		CALCIUM	80000	INVERT		BOTTOMS UP (MIN)	38
pH		Vol. Frac.		OILGEL3000		PUMP (M3/STROKE)	0.0056
F.C.	2	SAND	0.005	Ca.Chl. Fines		MUD TANKS (M3)	40
FANN 600	27	SOLIDS	10	LIME		MAIN HOLE (M3)	39
FANN 300	15	UF/OF		MILMICA		TOTAL (M3)	79
P.V.	12	OIL %	84	DFE 418	1	WATER LOADS ON LOG	
Y.P.	1.5	WATER %	17	CARBOTEC		DAILY MUD COST	\$3,859
GELS 1/10	2.0/3.0	CNTFGE		CA CARB.		MUD COST TO DATE	\$124,834

BIT DATA

NO.	RR-2-B	BIT NO.	RR-2-B	DRILL	22.75	MIRU	
SIZE	156	WEIGHT	7,000	TRIP		DRL MHRH	
TYPE	ETD537	RPM	60	RIG SERV	0.75	NIPPLE U/D	
SERIAL NO	136380	STRING WT	47,000	SURVEY	0.50	PT BOP'S	
JETS	3 x 18	SPM	120	CIRCULATE		DRILL OUT	
FROM	2083	M3/MIN	0.67	LOG		S&C LINE	
TO	2158	PRESSURE	4,100	TEST		RIG REPAIR	
BIT METERS	75	DP VEL	54	CORE		LD DP/DC'S	
BIT HOURS	52.75	DC VEL	76	REAM		REC CORE	
BIT ROP	1.4	NOZ VEL	29.6	CTB		SFTY MTG	
CUM HOURS	111.75	PUMP		CASING		BOP DRILL	
CONDITION	Run	TYPE	PZ-8	CEMENT		MIX L.C.M	
PULLED FOR		LINER/STK	203 x 114	WOC		TOTAL	24.00

SURVEYS

DEPTH	DEVIATION	DEPTH	DEVIATION	DEPTH	DEVIATION	156mm Bit, B/S.
1986	1.5					
2085	2.75					12 x 4 3/4 Drill Collars
213	3.75					LENGTH

BOTTOM HOLE ASSEMBLY

REMARKS & GENERAL REPORT DETAILS

0800-1330	Drilled ahead with 156 mm bit				
1330-1400	Surveyed @ 2123 m = 3.75 degree				
1400-0800	Drilled ahead with 7000 dAN on bit				
				CUT(-) / FILL(+)	
				GR. ELEV. (Corrected)	273.10
				KB - GROUND	5.15
				ACTUAL KB	278.25
				REPORT TO:	Wayne Tomm
WEATHER/TEMP	Light snow -24	RD/LEASE	Firm	LAST BOP DRILL DL	8-Jan
SUPERVISOR	Dave Wilson	MOBILE	1-800-700-5042	LAST BOP DRILL AN	8-Jan
RIG MANAGER	Greg Beller	MOBILE		LAST BOP DRILL MN	
CONTRACTOR	Precision 379	DAILY COST	\$28,849	CUM. COST	\$1,443,209

HIGHWOOD WELLSITE SERVICES INC.
 DAILY GEOLOGICAL WELL REPORT
 1999-01-12

Paramount et al Netla M-23

Report To: PAUL COLLENS

Report From: JEFF BOULTER

Spud Date: December 17

Telephone: 1600 700 5042

Gd. Elevation: 273.1

Days from Spud: 26

Depth @ 6:00: 2204 m

K.B. Elevation: 278.25

Status @ 8:00: Drilling ahead

Formation: Arnica

24 hr Progress: 19 m

Average ROP: 1 m/hr

OPERATIONS SUMMARY - Last 24 Hours

Drilled 156 mm hole to 2189.0 m, conditioned mud while drilling for trip out of hole (ie increased mud density to 1020), pulled out of hole, run in hole with new bit, drill ahead 156 mm hole

MUD PROPERTIES

Type: Invert
 Density: 1020 kg/m³
 Viscosity: 48 s/L
 Water Loss: cm³/30 min
 pH:
 Filter Cake: mm

SAMPLE TOPS

Formation	Sample Depth	TVD	Subsea	Prognosis Subsea	Change
Kakisa	1030.0	1029.4	-751.1	-690.2	-60.9
Fort Simpson	1057.0	1056.3	-778.1	-770.2	-7.9
Muskwa	1790.0	1788.8	-1510.6	-1626.2	115.6
Horn River	1879.0	1877.8	-1599.6		
Nahanni	1891.0	0.0		-1717.2	
Headless	1972.0	0.0		-1830.2	
Landry	2002.0	0.0		-1854.2	
Arnica	2074.0	0.0		-1912.2	

FORECAST ACTIVITIES

Drill ahead 156 mm hole, still looking for possible core point, if we see no porosity development then continue drilling to total depth

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
KB 278.25 m

WELL TYPE: Gas Exploration

SPUD DATE: December 17, 1998

LICENCE No.: WID 1841

LOG MEASURED FROM KB
5.1 m ABOVE GROUND

TOTAL DEPTH:

T.D. DATE:

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: Baker Hughes Inteq

Core#1 Arnica 2080.0 - 2083.2 m

OPEN HOLE LOGS:

SUPERVISION

CASING DEPTH	
SURFACE:	499 m
INTERMEDIATE:	1840 m
MAIN:	m

CASING SIZE

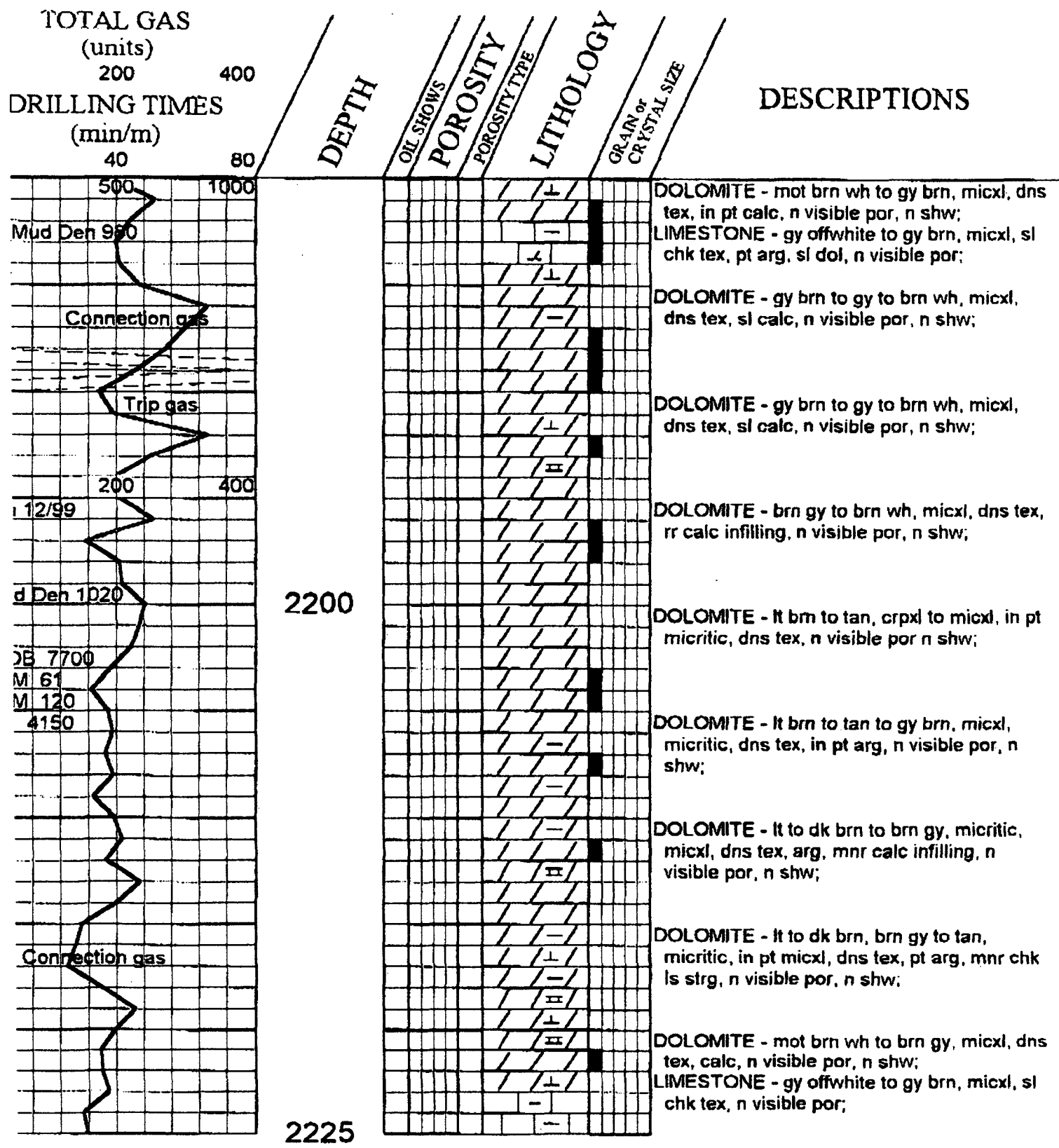
SURFACE:	320.42	mm
INTERMEDIATE:	177	mm
MAIN:		mm

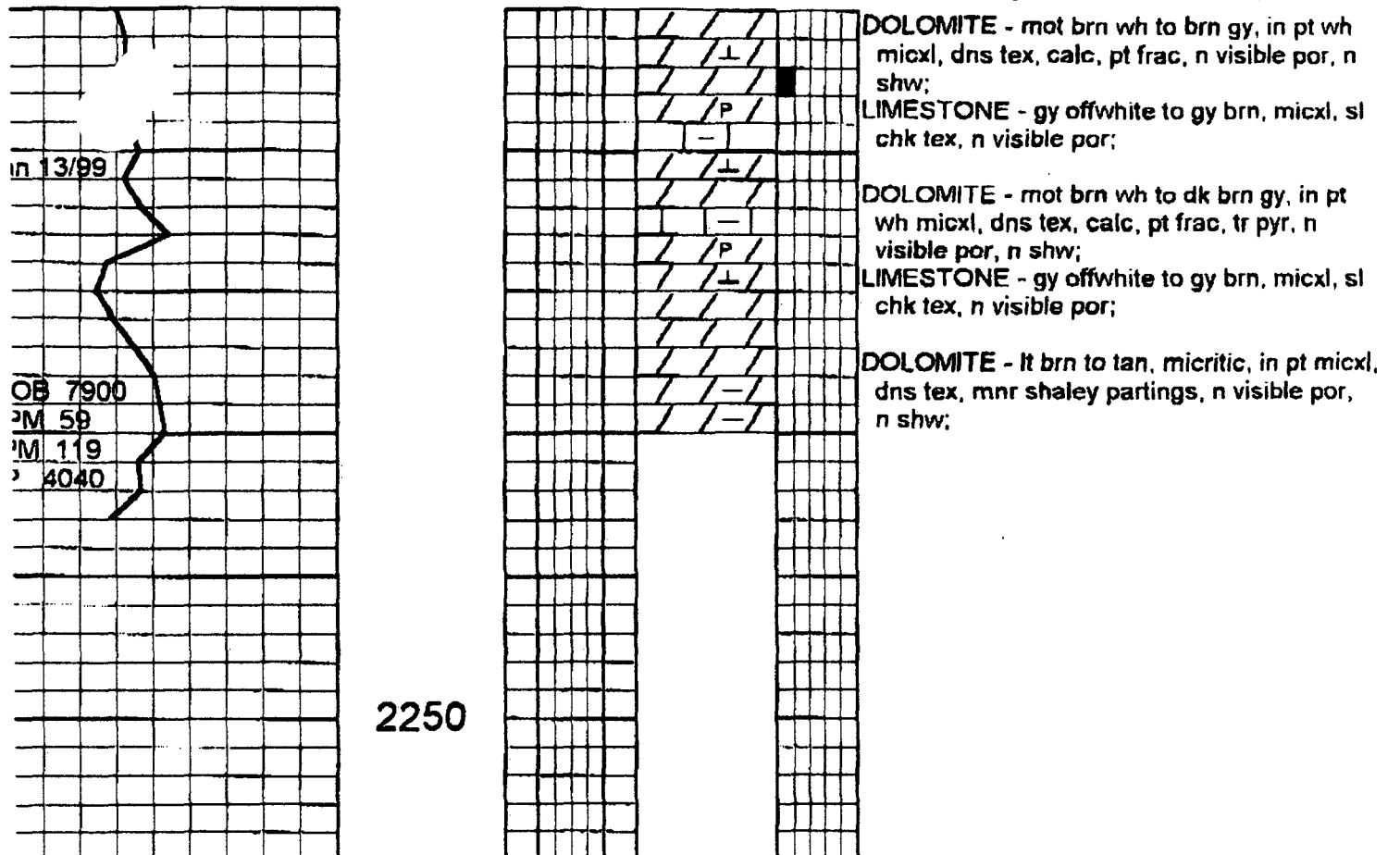
HOLE SIZE	
SURFACE:	339.73 mm
INTERMEDIATE:	222 mm
MAIN:	mm

REMARKS:

CAN RAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240





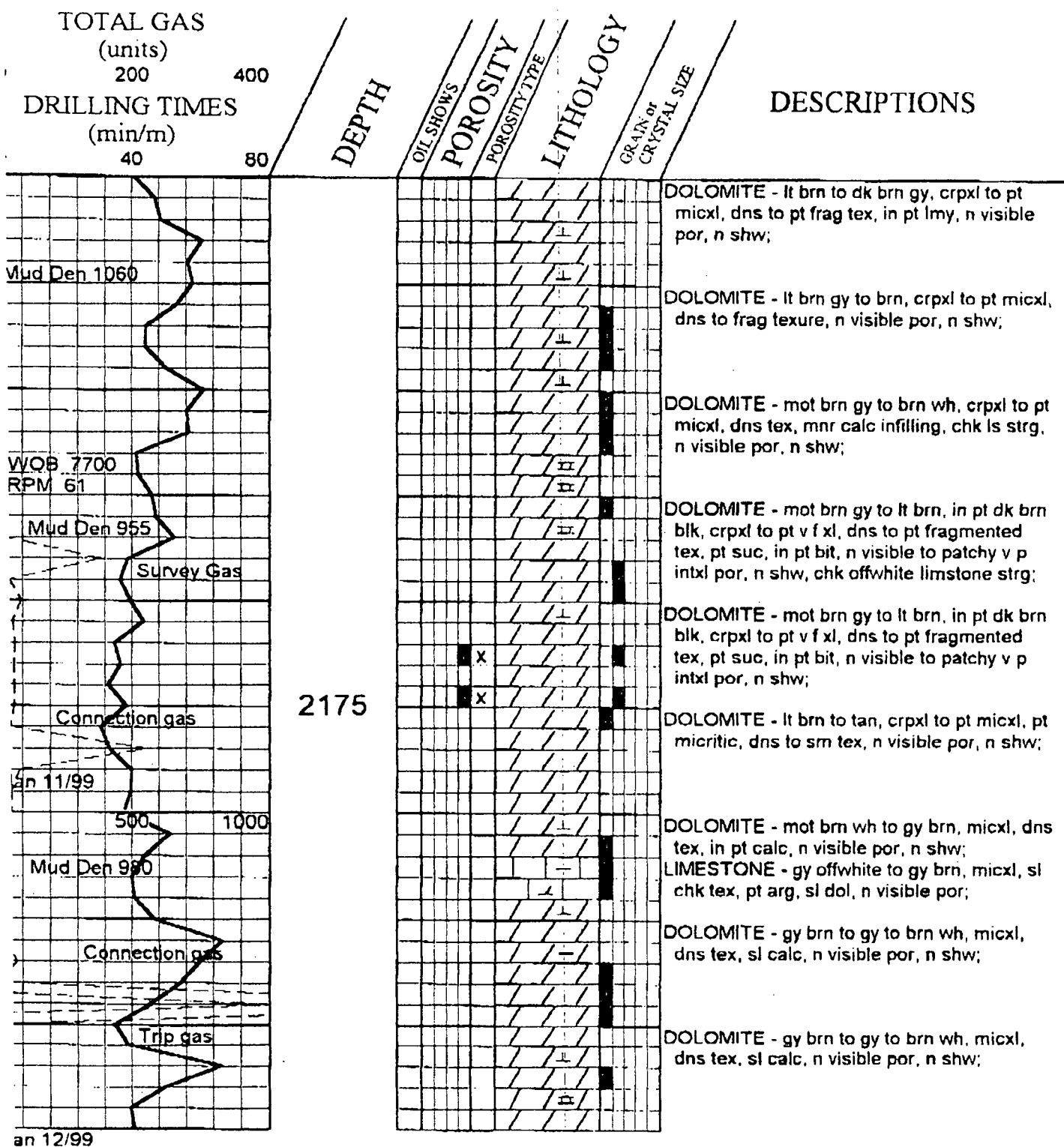
HIGHWOOD WELLSITE SERVICES INC. 41 Riverview Circle COCHRANE, Alberta (403) 932-2916		COMPOSITE WELL HISTORY DRILLING TIME LITHOLOGY LOG	
COMPANY: PARAMOUNT RESOURCES LTD. WELL: Paramount et al Netla M-23 FIELD: PROVINCE: NorthWest Ter. LOCATION: M-23 60 Deg 50' 123 Deg 00'			
COORDINATES: ELEVATIONS: GD 273.1 m KB 278.25 m WELL TYPE: Gas Exploration SPUD DATE: December 17, 1998 LICENCE No.: WID 1841		LOG MEASURED FROM KB 5.1 m ABOVE GROUND TOTAL DEPTH: T.D. DATE: 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: Baker Hughes Inteq Core#1 Arnica 2080.0 - 2083.2 m OPEN HOLE LOGS:	
SU. DIVISION GEOLOGICAL: JEFF BOULTER		DRILLING: AL IRONSIDE	

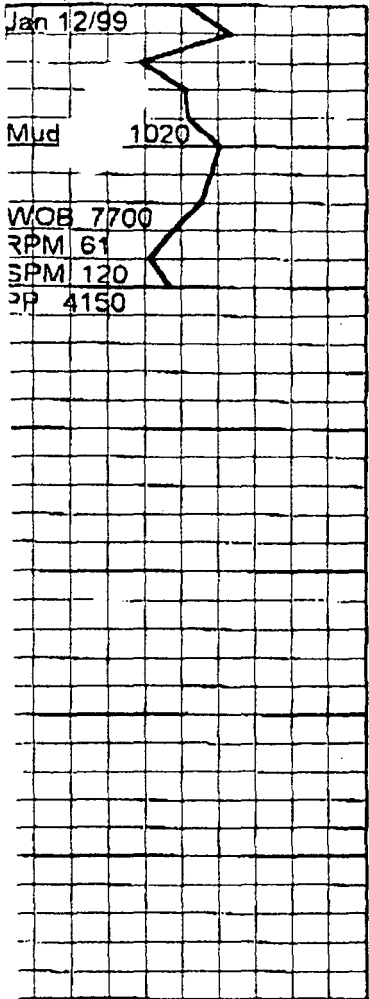
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CASING DEPTH	SURFACE:	499	m
	INTERMEDIATE:	1840	m
	MAIN:		m

REMARKS:

CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240





2200

2225

DOLOMITE - lt brn to tan, crpxl to micxl, in pt micritic, dns tex, n visible por n shw;