Schlumberger

BOREHOLE COMPENSATED SONIC LOG

COUNTY COLUMBIA
FIELD MIST NEHALEM BASIN
LOCATION 20-6N-4W
WELL INVESTMENT MANAGEMENT
NO. 20-21 RD
COMPANY AMERICAN QUASAR

COMPANY AMERICAN QUASAR PETROLEUM COMPANY
WELL INVESTMENT MANAGEMENT NO. 20-21 RD
FIELD MIST NEHALEM BASIN
COUNTY COLUMBIA STATE OREGON

LOCATION 4142.9'NORTH & 1599.9'EAST OF THE SOUTHWEST CORNER OF:

API SERIAL NO.	SEC.	TWP.	RANGE
	20	6N	4W

Other Services: DIL

Permanent Datum: GL ; Elev.: 618.16
Log Measured From KB 10.5 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 628.66
D.F. --
G.L. 618.16

RECEIVED-PTLD
NOV 24 1980
DEPT OF GEOLOGY & MINERAL

Date	10-20-80			
Run No.	ONE			
Depth—Driller	2145			
Depth—Logger (Schl.)	2140			
Btm. Log Interval	2134			
Top Log Interval	522			
Casing—Driller	7" @ 521	@	@	@
Casing—Logger	522			
Bit Size	6¼"			
Type Fluid in Hole	LIGNOSULFONATE			
Dens. | Visc.	73.0 | 41.0	|	|	|
pH | Fluid Loss	10.0 | 6.0 ml	ml	ml	ml
Source of Sample	CIRCULATION			
Rm @ Meas. Temp.	2.85 @ 59 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.53 @ 50 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	3.20 @ 58 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	M | M	|	|	|
Rm @ BHT	1.93 @ 87 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	0130			
TIME Logger on Bottom	0300			
Max. Rec. Temp.	87 °F	°F	°F	°F
Equip. | Location	8128 | SAC	|	|	|
Recorded By	LANGFORD/SCANLAN			
Witnessed By	T. SMITH			

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

Run No.	ONE			
Service Order No.	135737			
Fluid Level	FULL			

EQUIPMENT DATA

Sonic Panel No.	SLM-DA-383			
Sonic Cart No.	SLC-1321			
Sonic Sonde No.	SLS-375			
Mem. Panel No.	-			
G.R. Cart. No.	-			
G.R. Panel No.	-			
Caliper No.	-			
TTR No.	-			
Centralizers: No.	-			
Type	CME-Z			
Standoffs: No.	-			
Type	T"			
Time Const.-Sec.	-			
Speed - F.P.M.	-			

CALIBRATION DATA

GR	BKG. CPS	-			
	Source CPS	-			
	Tc Sec	-			

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

LOGGING DATA

Porosity Selectors				Depth	
Δt_m	Δt_f	Cp	Ø Scale	From	To
55.6	189	150			522

REMARKS

REPEAT AT TOP DUE TO HOLE CONDITIONS.

Velocity (ft/sec) = 1,000,000 / Interval Transit Time (microseconds per foot)

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

PARAMETERS

NAME	UNIT	VALUE	NAME	UNIT	VALUE	NAME	UNIT	VALUE

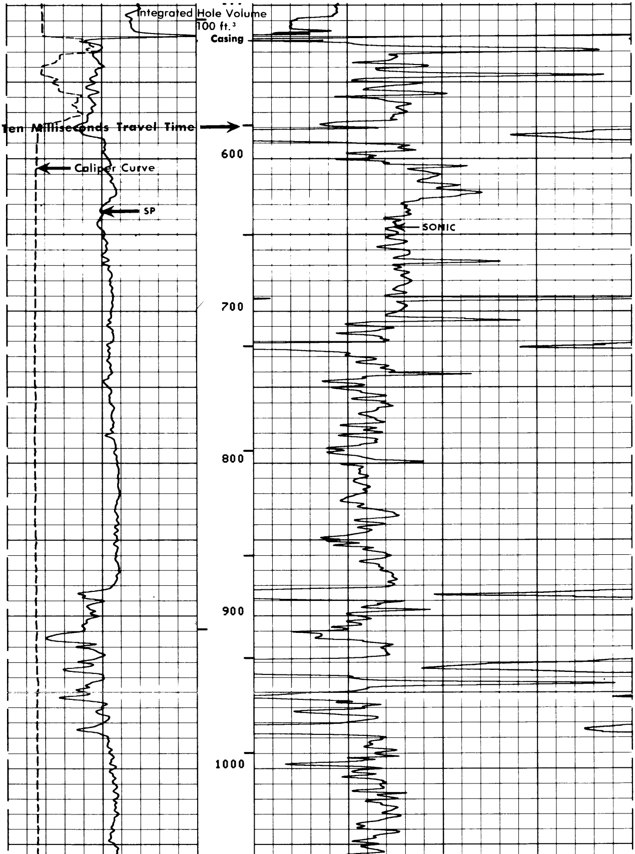
DTM	US/F	55.60	CDTS		150.0	BS	INCH	6.250
SBR	OHMM	1.000	DSEC	MM/M	4.820	DTF	US/F	189.0
FPHI		SPHI	MSEC	MM/M	16.53			
DO		0.0	BHS		OPEN			

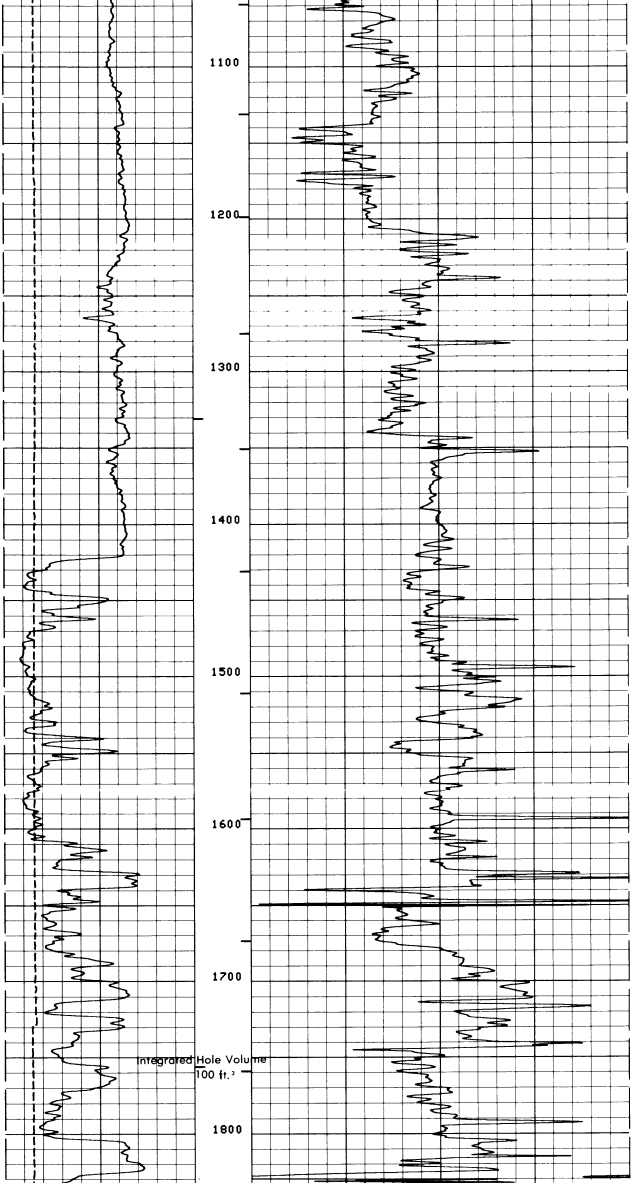
CALI(IN)
5.000 15.00
SP (MV)
-100.0 0.0

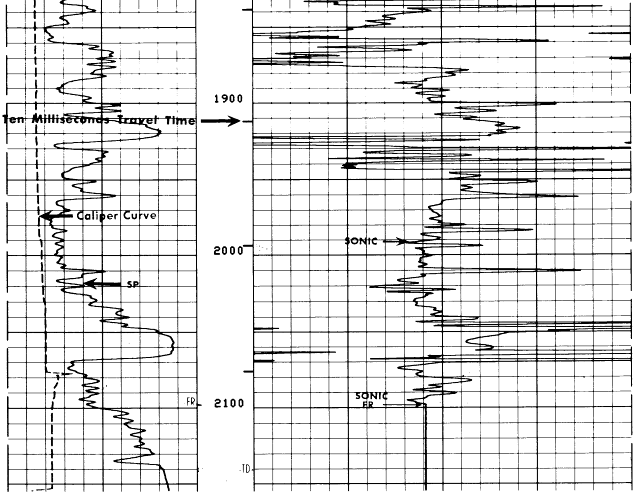
DT (US/F)
175.0 75.00

FILE

5







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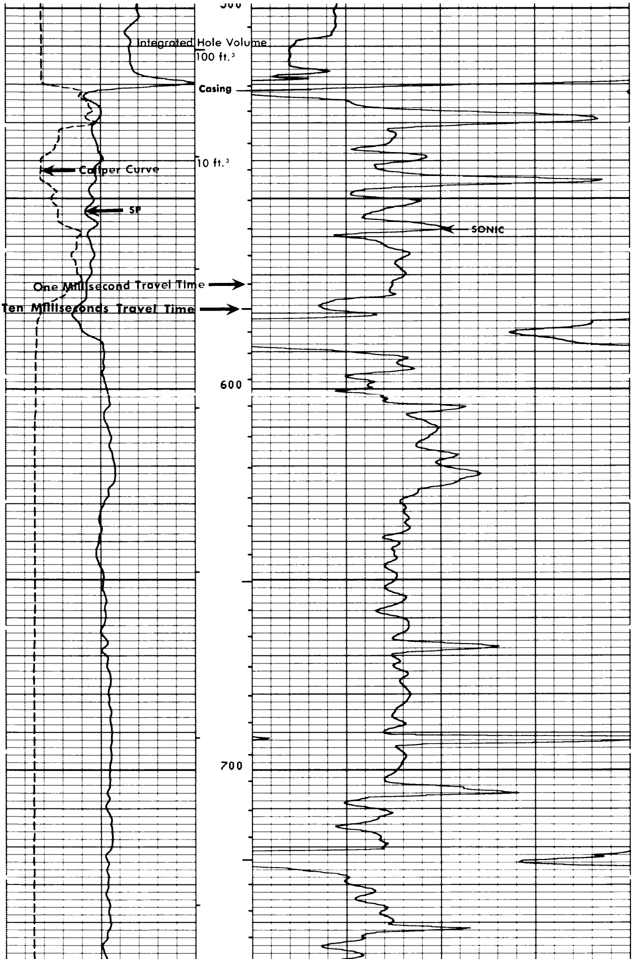

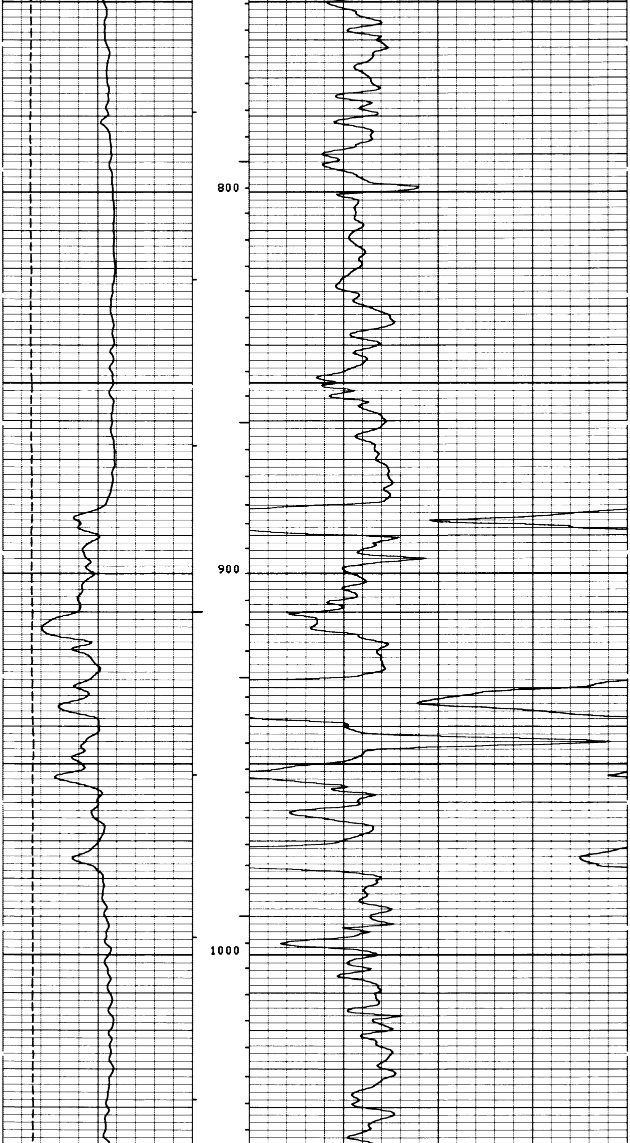

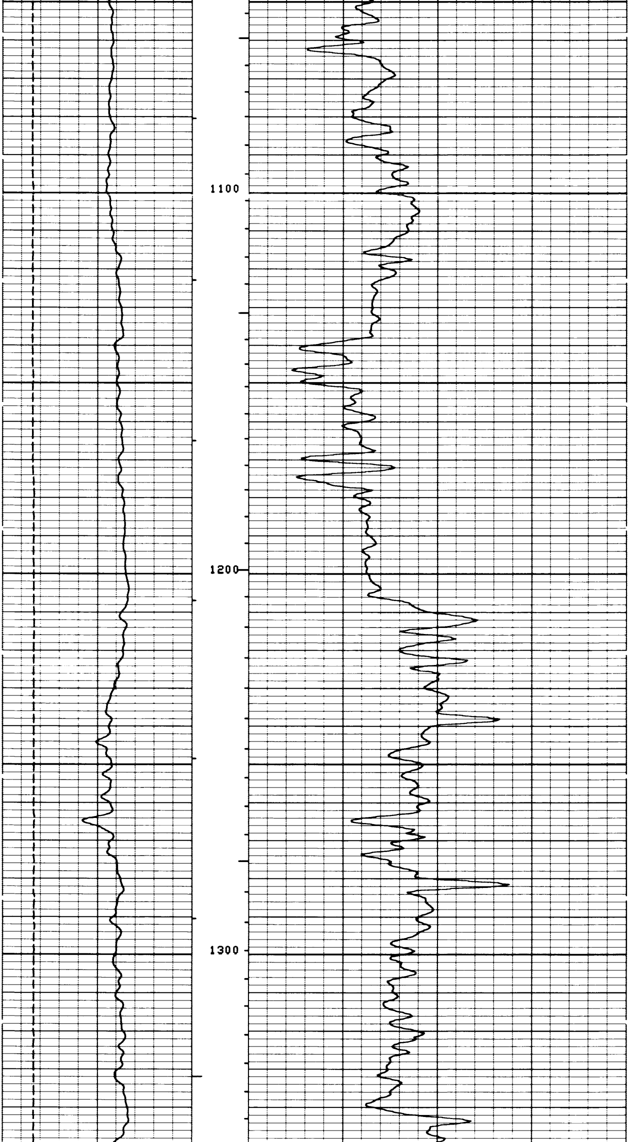

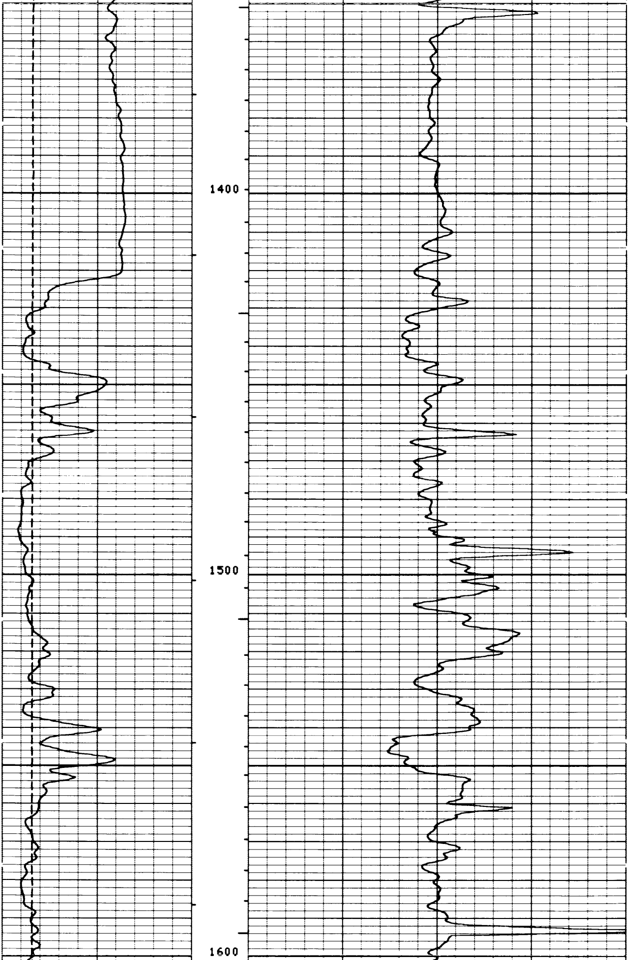

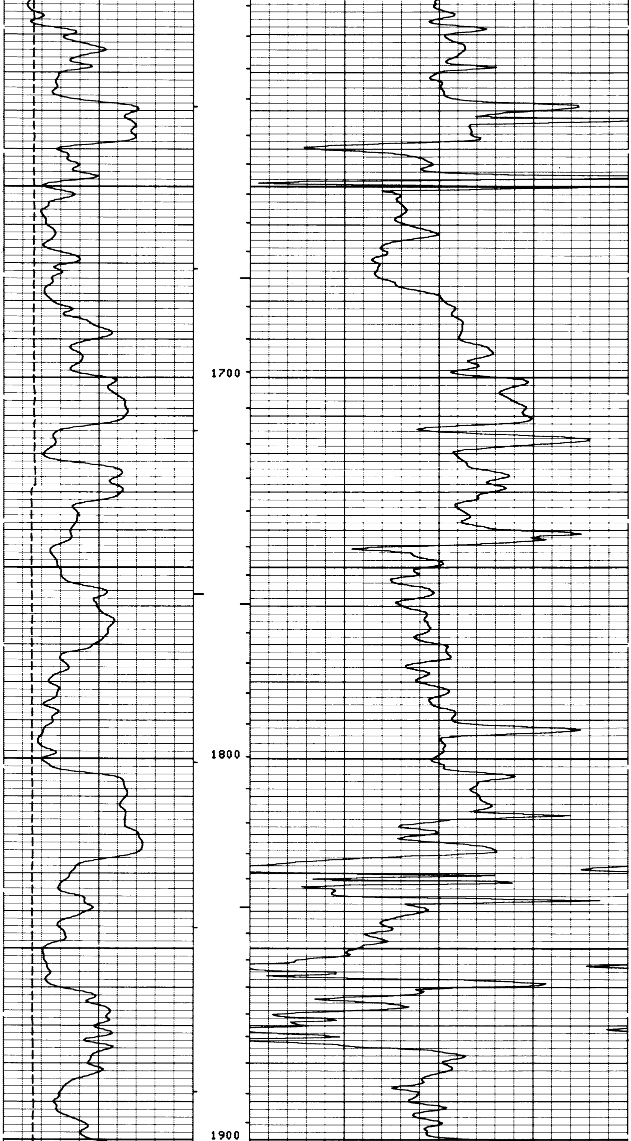

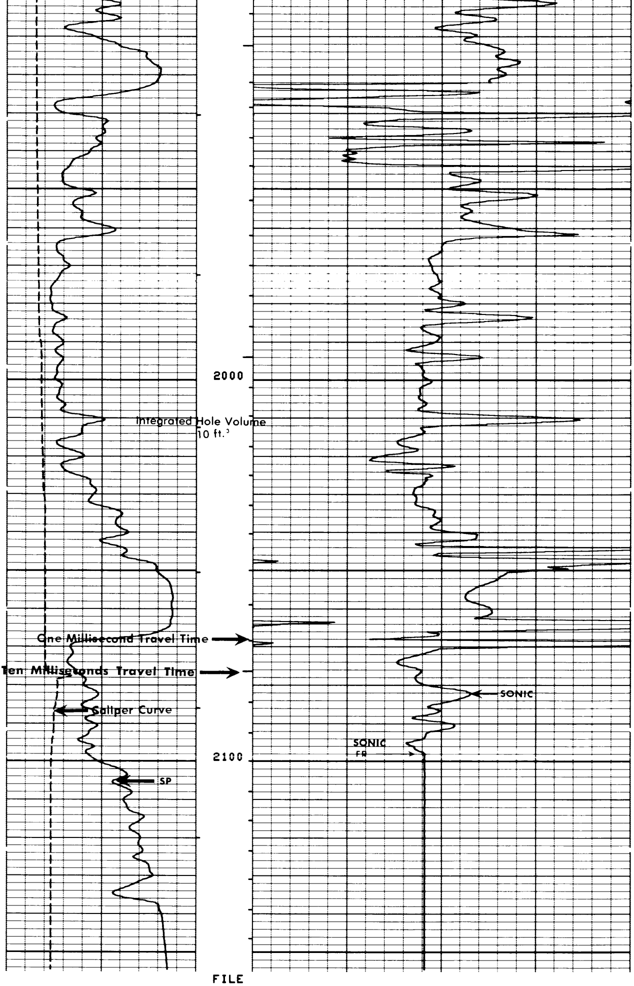

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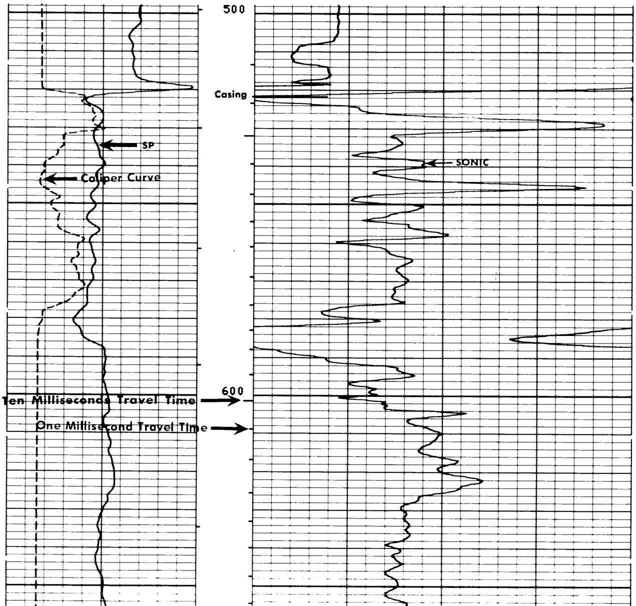

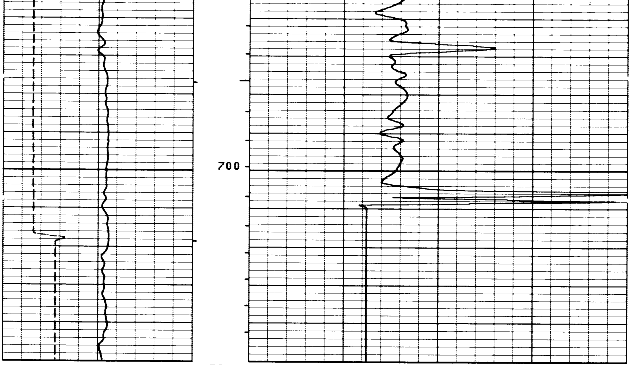

FILE

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DO		0.0	BHS		OPEN			

MCDB

CALIPER CALIBRATION SUMMARY

	MEASURED		CALIBRATED		
	SMALL	LARGE	SMALL	LARGE	UNITS
CALI	5.3	11.3	6.0	12.0	IN

FILE

CALIBRATION RECORD

COMPANY AMERICAN QUASAR PETROLEUM COMPANY

WELL INVESTMENT MANAGEMENT NO. 20-21 RD

FIELD MIST NEHALEM BASIN

COUNTY COLUMBIA STATE OREGON

SCHL. FR 2134

SCHL. TD 2140

DRLR TD 2145

Elev: KB 628.66

DF --

GL 618.16