Open File L 76

Schlumberger

DUAL INDUCTION - LATEROLOG

FILE COPY

COMPANY	COLUMBIA GAS TRANSMISSION CORP.
WELL	COLUMBIA GAS #20403
FIELD	WILDCAT
COUNTY	LINCOLN
STATE	WEST VIRGINIA
Location:	PERMIT No. 1637 MAP SQ. 28-41 ON FOURTEEN MILE CREEK WATERS, LAUREL HILL DIST. RANGER QUAD.
Other Services:	FDC-CNL BHC MLL TDT HDT

Permanent Datum: G.L. ; Elev.: 1190.48
Log Measured From K.B. 12 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev.: K.B. 1202.48 D.F. – G.L. 1190.48

Date	1-11-76	2-1-76	2-5-76
Run No.	ONE	TWO	THREE
Depth—Driller	2652	4067	4067
Depth—Logger	2627	4079	4062
Btm. Log Interval	2617	4070	4059
Top Log Interval	85	2639	2640
Casing—Driller	13⅜ @ 82	9⅝ @ 2638	9⅝ @ 2638
Casing—Logger	85	2639	2640
Bit Size	12¼	8¾	8¾
Type Fluid in Hole	FORM.WATER	AIR	KCL & POLYMER
Fluid Level	620	EMPTY	2170
Dens. / Visc.	– / –	– / –	8.6 / 36
pH / Fluid Loss	– / – ml	– / – ml	9.0 / 13.2 ml
Source of Sample	NA	–	BOREHOLE
Rm @ Meas. Temp.	– @ °F	– @ °F	0.36 @ 75 °F
Rmf @ Meas. Temp.	– @ °F	– @ °F	0.32 @ 75 °F
Rmc @ Meas. Temp.	– @ °F	– @ °F	0.28 @ 75 °F
Source: Rmf / Rmc	– / –	– / –	CAL / CAL
Rm @ BHT	– @ °F	– @ °F	.27 @ 105 °F
Time Since Circ.	–	–	24 HRS.
Max. Rec. Temp.	77 °F	90 °F	105 °F
Equip. / Location	7702 / FAIR	7702 / FAIR	7699 / PAINTS.
Recorded By	ALBERS	ALBERS	MAYER
Witnessed By	MR. RYAN & MR. WATTS		

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

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES

Date / Sample No.		
Depth - Driller		
Type Fluid in Hole		
Dens. / Visc.		
ph / Fluid Loss	ml	ml
Source of Sample		
Rm @ Meas. Temp.	@ °F	@ °F
Rmf @ Meas. Temp.	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F
Source: Rmf / Rmc		
Rm @ BHT	@ °F	@ °F
Rmf @ BHT	@ °F	@ °F
Rmc @ BHT	@ °F	@ °F

SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

EQUIPMENT DATA

Run No.	ONE	TWO	THREE
Panel No.	181	181	298
Cart. No.	269	269	84
Sonde No.	129	213	159
Mem. Panel No.	114	114	218
G.R. Cart. No.	–	–	–
G.R. Panel No.	–	–	–
TTR No.	–	–	842
Cent. Device	–	–	–
Stand off - Inches	1.5	1.5	1.5
Time Const - Sec.	–	–	–
Speed - F.P.M.	100	100	100

REMARKS

Service Order No. - 33942 & 33943
16626

SURFACE SONDE ERRORS USED ON RUN 2 & RUN 3

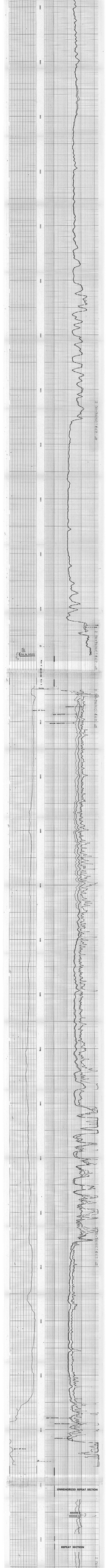
☐ Surface determined sonde errors used.
☐ Sonde error corrected for inch borehole signed at R_m =
☐ Induction zero set in hole at depth of 1920 feet.

CALIBRATION DATA

CALIBRATION:	BACKGND. CPS.	SOURCE CPS.	GALV. INCR. DIVISION	SENS. TAP (FOR CAL.)	SENS. TAP (RECORD)	TIME CONST.
GAMMA RAY:						

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 7 of our General Terms and Conditions as set out in our current Price Schedule.

SPONTANEOUS POTENTIAL MILLIVOLTS	DEPTHS	RESISTIVITY OHMS. M²/M
20 (– +)		DEEP INDUCTION LOG 0.2 1.0 10 100 1000 2000
		MEDIUM INDUCTION LOG 0.2 1.0 10 100 1000 2000
		LATEROLOG — 8 0.2 1.0 10 100 1000 2000


UNANNOUNCED REPEAT SECTION
REPEAT SECTION

LATEROLOG – 8	0.2 1.0 10 100 1000 2000
MEDIUM INDUCTION LOG	0.2 1.0 10 100 1000 2000
DEEP INDUCTION LOG	0.2 1.0 10 100 1000 2000

20 – |←→| +

SPONTANEOUS-POTENTIAL MILLIVOLTS | DEPTHS | **RESISTIVITY** OHMS. M²/M

COMPANY COLUMBIA GAS TRANSMISSION CORP.

WELL COLUMBIA GAS #20403

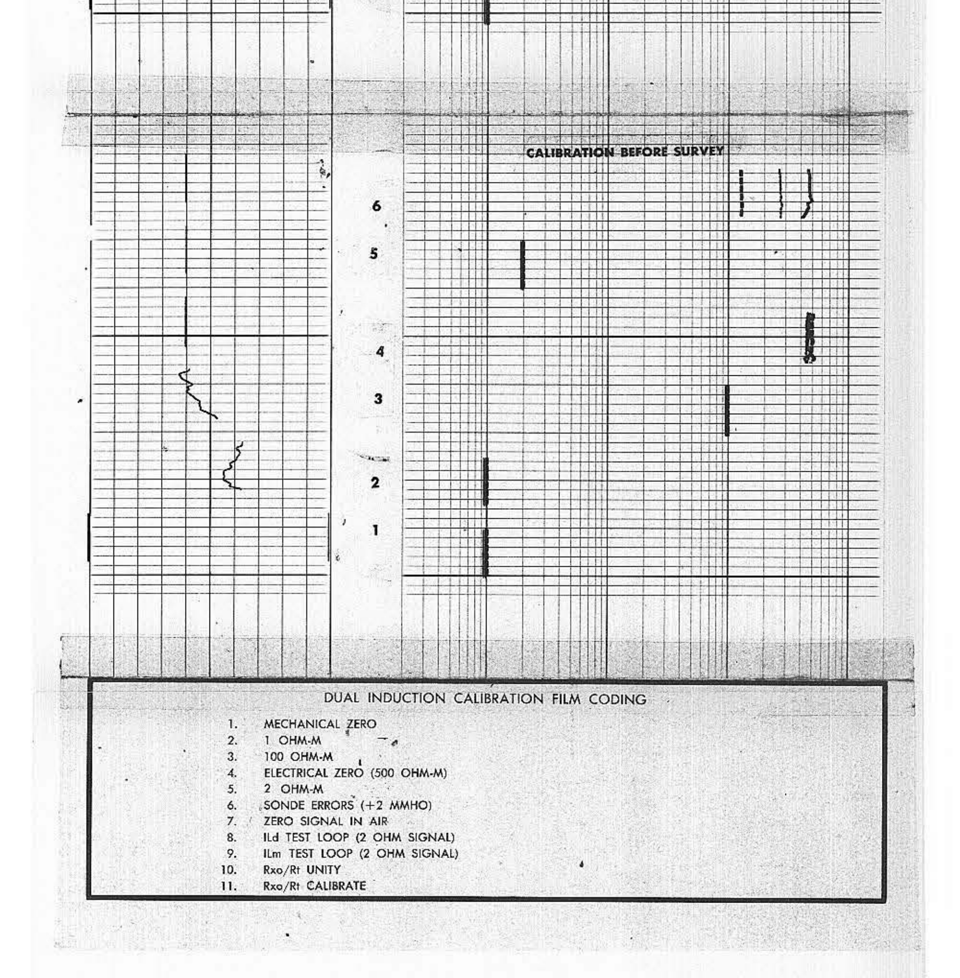
FIELD WILDCAT

COUNTY LINCOLN STATE WEST VIRGINIA

SCHL. FR 4059
SCHL. TD 4062
DRLR TD 4067
Elev: KB 1202.48
DF -
GL 1190.48

DUAL INDUCTION CALIBRATION FILM CODING

1. MECHANICAL ZERO
2. 1 OHM-M
3. 100 OHM-M
4. ELECTRICAL ZERO (500 OHM-M)
5. 2 OHM-M
6. SONDE ERRORS (+2 MMHO)
7. ZERO SIGNAL IN AIR
8. ILd TEST LOOP (2 OHM SIGNAL)
9. ILm TEST LOOP (2 OHM SIGNAL)
10. Rxo/Rt UNITY
11. Rxo/Rt CALIBRATE



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