Western Atlas International

ATLAS WIRELINE SERVICES

DUAL INDUCTION FOCUSED LOG
BHC ACOUSTILOG®
GAMMA RAY

FILE NO. 3947

API NO. 36-009-00267

2" 100'

COMPANY NORTHWEST NATURAL GAS COMPANY

WELL I. W. 13b - 11

FIELD MIST

COUNTY COLUMBIA STATE OREGON

LOCATION:
272.25' NORTH & 344.20' EAST
FROM THE WEST 1/4 CORNER OF:

SEC 11 TWP 6N RGE 5W

OTHER SERVICES
CDLC-CN-GR
DIPLOG

PERMANENT DATUM GROUND LEVEL ELEV. 886.45

LOGGING MEASURED FROM K. B. 11.4 FT. ABOVE P.D.

DRILLING MEASURED FROM K. B.

ELEVATIONS
KB 897.85'
DF ---
GL 886.45'

FINAL PRINT

DATE	24-SEP-91		28-SEP-91					
RUN	1		2					
SERVICE ORDER	66910		66912					
DEPTH-DRILLER	2214'		2905'					
DEPTH-LOGGER	2209'		2905'					
BOTTOM LOGGED INTERVAL	2207'		2903'					
TOP LOGGED INTERVAL	530'		2210'					
CASING - DRILLER	13 3/8"	@ 532'	8-5/8	@ 2210'		@		@
CASING - LOGGER	530'		2210'					
BIT SIZE	12 1/4"		7-7/8					
TYPE FLUID IN HOLE	GEL/POLYMER		KCL/HEC 10/CACL.					
DENSITY / VISCOSITY	9.3	55	9.2	42				
PH / FLUID LOSS	9.0	4.6	9.0	12.4				
SOURCE OF SAMPLE	FLOWLINE		FLOWLINE					
RM AT MEAS. TEMP.	2.14	@ 72 F	.130	@ 69 F		@		@
RMF AT MEAS. TEMP.	2.31	@ 72 F	.126	@ 69 F		@		@
RMC AT MEAS. TEMP.	2.01	@ 72 F	.154	@ 69 F		@		@
SOURCE OF RMF / RMC	MEASURED	MEASURED	MEASURED	MEASURED				
RM AT BHT	1.55	@ 101 F	.090	@ 100 F		@		@
TIME SINCE CIRCULATION	2 1/2 HRS.		3 HRS.					
MAX. REC. TEMP. DEG. F	101 F		100 F					
EQUIP. NO. / LOC.	HL 6399	BAKRSFLD	HL 6399	BAKRSFLD				
RECORDED BY	TORGERSON		TORGERSON					
WITNESSED BY	CLAYTON ROTH		CLAYTON ROTH					

FOLD HERE

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS RUN (1)

TAYLOR RIG 4
BHT 101 F & 101 F
VOLUME COMPUTED FOR 8 5/8" CASING
BHC ACOUSTILOG MANDREL IS A T3R1R3T TYPE

REMARKS RUN (2)

TAYLOR RIG 4
BHT 100 F & 100 F
VOLUME COMPUTED USING 5 1/2" LINER
BHC ACOUSTILOG MANDREL IS A T3R1R3T TYPE.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	DIFL	72372	1503XA	1.5" S. O.
1	1	AC	79731-79726	1609-1603	CENTRALIZED
1	1	GR	60519	1309XA	CENTRALIZED
1	1	CAL	55718	4209XA	CENTRALIZED

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
2	1	DIFL	72372	1503XA	1.5" S. O.
2	1	AC	79731-79726	1609-1603	CENTRALIZED
2	1	GR	60519	1309XA	CENTRALIZED
2	1	CAL	55718	4209XA	CENTRALIZED

2" = 100'

****

FILE: 4

PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
A	2240 TO 452	1.000	
DEL-T F	2240 TO 452	189.000	MICS/FT
DEL-T M	2240 TO 452	55.500	MICS/FT
DEL-T S	2240 TO 452	100.000	MICS/FT
M	2240 TO 452	2.000	
C.D.	2240 TO 452	8.625	INCH
PORA	2240 TO 452	WYLLIE	

PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
A	2917 TO 2025	1.000	
DEL-T F	2917 TO 2025	189.000	MICS/FT
DEL-T M	2917 TO 2025	55.500	MICS/FT
DEL-T S	2917 TO 2025	100.000	MICS/FT
M	2917 TO 2025	2.000	
C.D.	2917 TO 2025	5.500	INCH
PORA	2917 TO 2025	WYLLIE	

DISPLAY SCALE CHANGES

*** NONE ***

COMPANY: OREGON NATURAL GAS DEVELOPMENT CORP. RUN: 1

WELL NAME: I. W. 13b - 11 TRIP: 1

SERVICE: BK214M FILE: 4 DATE: 09/24/81 TIME: 20:35:24

REVISION: FSYS256 REV:G002 VER:2.0 MODE: PLAYBACK

DISPLAY SCALE CHANGES

*** NONE ***

COMPANY: OREGON NATURAL GAS DEVELOPMENT CORP. RUN: 3

WELL NAME: I. W. 13b - 11 TRIP: 1

SERVICE: BK214M FILE: 3 DATE: 09/23/81 TIME: 21:33:51

REVISION: FSYS256 REV:G002 VER:2.0 MODE: PLAYBACK

TT(MICS/FT) 30 0

RFLI(OHMM) 0 6

RFLI(OHMM) 0 300

RFLI(OHMM) 0 30

BIT(INCH) 6 16

RDLI(OHMM) 0 300

VOL(CUFT) 0 30

RDLI(OHMM) 0 30

CAL(INCH) 6 16

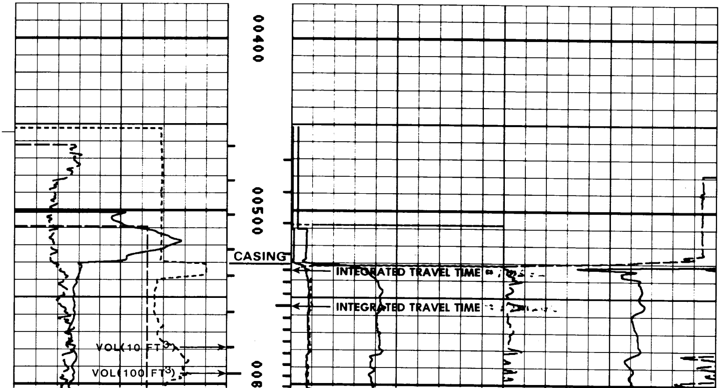
AC(MICS/FT) 150 50

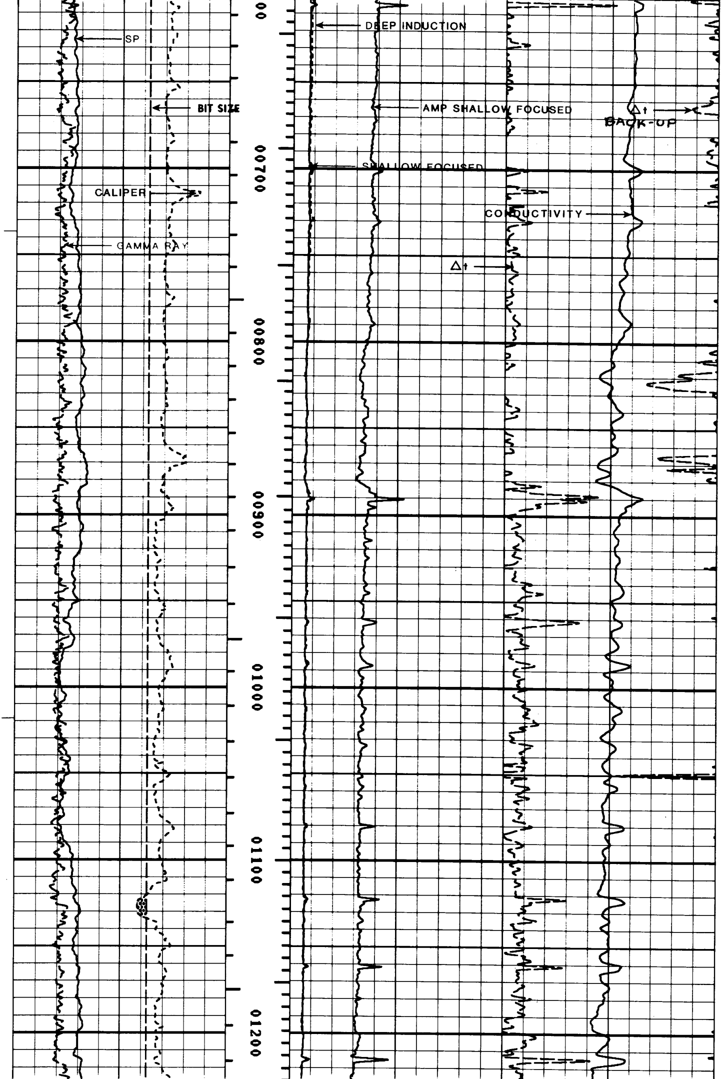
GR(API) 0 150

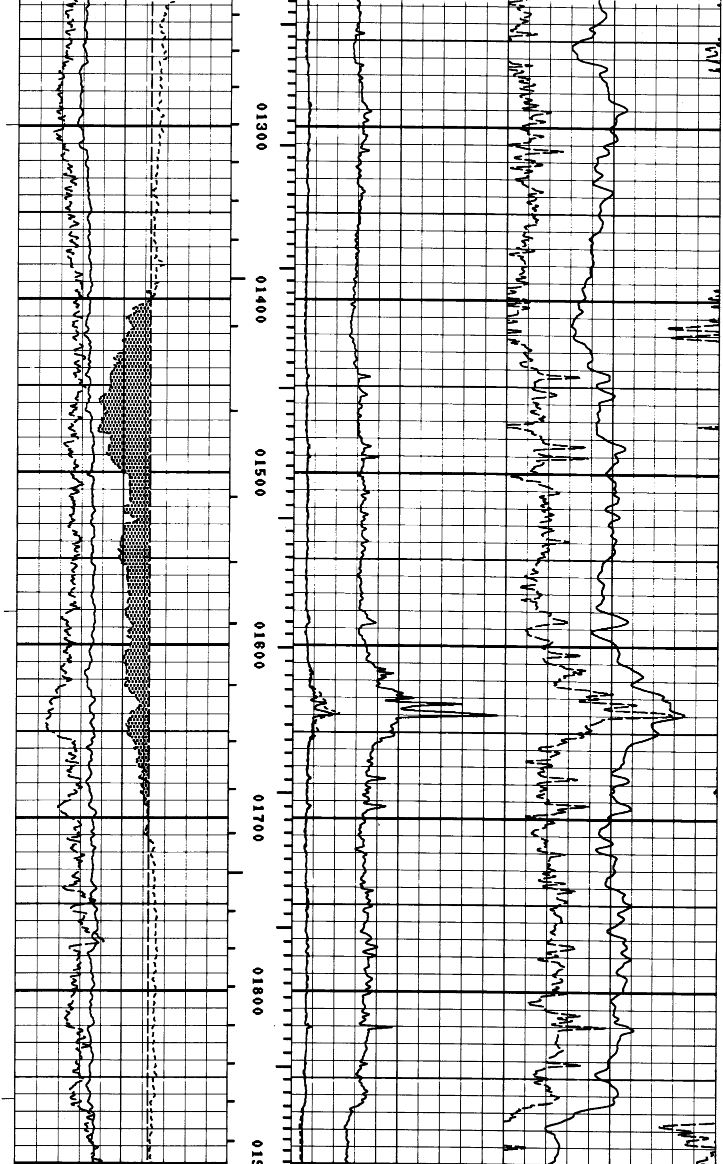
TEN(LBS) 5000 0

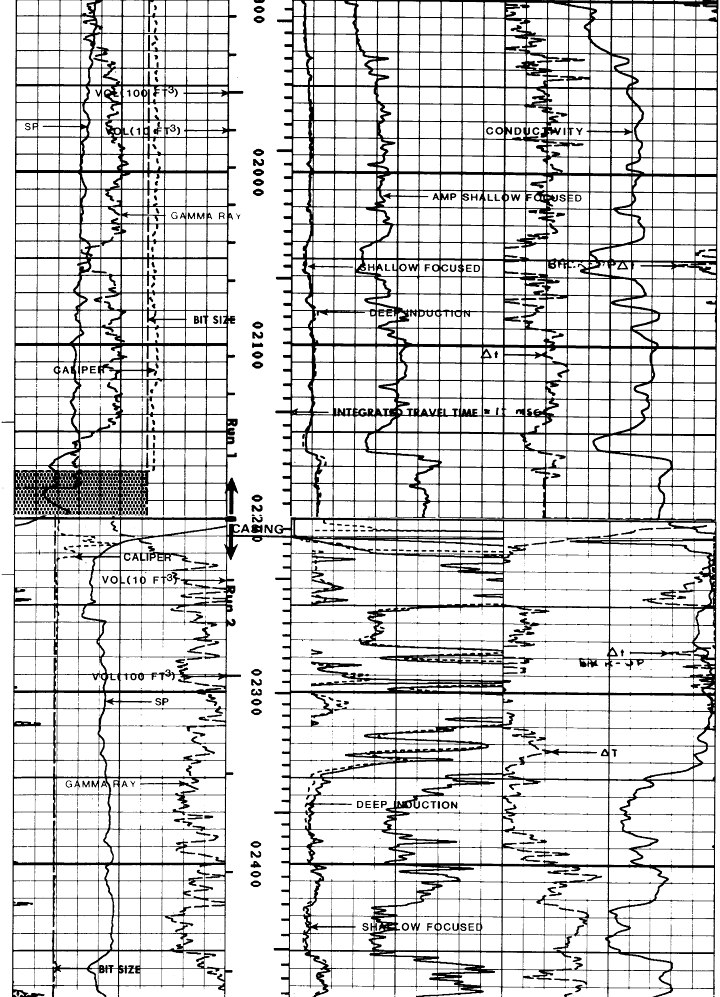
SP(MV) 0 100

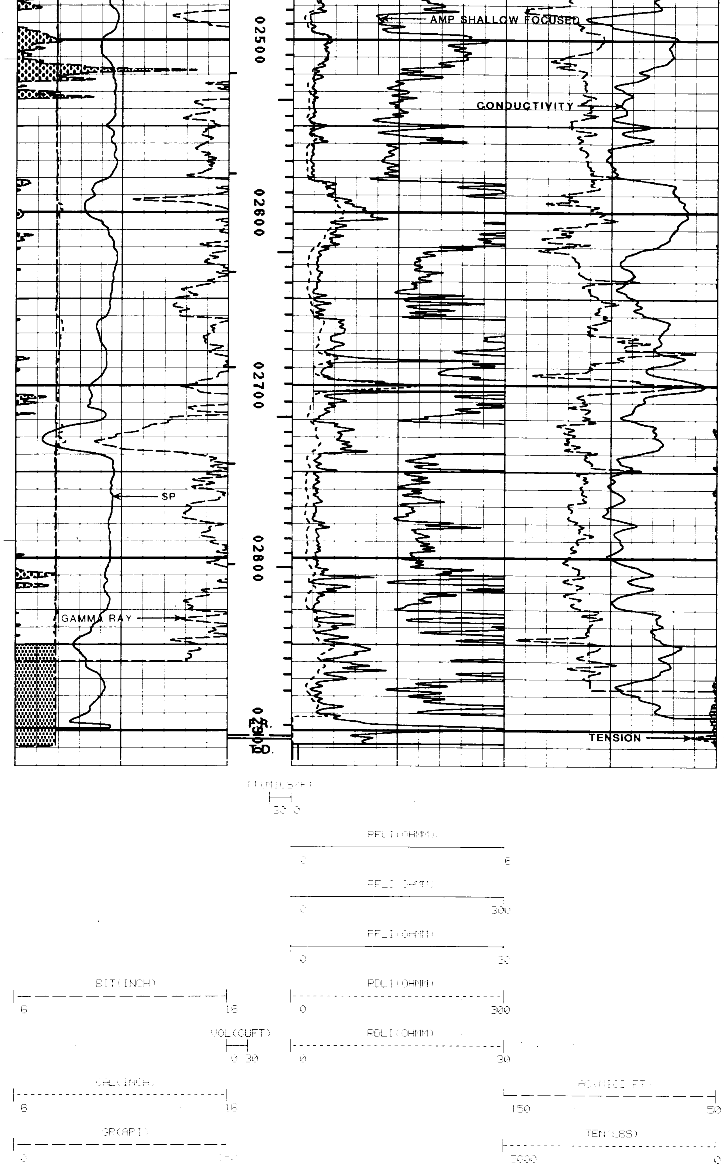
CILD(MMHO) 1000 0











FILE: 3

****