Western Atlas International

ATLAS
WIRELINE
SERVICES

DIPLOG®

FINAL PRINT

FILE NO.	3947
API NO.	36-009-00267
5" = 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
DIFL-SP-CAL
BHC AC-GR-CAL
CDLC-CN-GR

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'

DATE	25-SEP-91		29-SEPT-91					
RUN	1		2					
SERVICE ORDER	66910		66912					
DEPTH-DRILLER	2214'		2905'					
DEPTH-LOGGER	2207'		2904					
BOTTOM LOGGED INTERVAL	2204'		2901					
TOP LOGGED INTERVAL	536'		2914'					
CASING - DRILLER	13 3/8"	@ 532'	8-5/8	@ 2210'		@		@
CASING - LOGGER	NOT LOGGED		NOT LOGGED					
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	9 HRS.		9 HRS.					
MAX. REC. TEMP. DEG. F	103 F		105 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 103 F & 103 F
VOLUME COMPUTED FOR 8 5/8" CASING
REPEAT SECTION RECORDED 6' SHALLOW
CENTRALIZER - PCM - ELECTRONICS - MANDREL
4304XA052919 - 3508XA071095 - 1016EA078387 - 1010MA072657

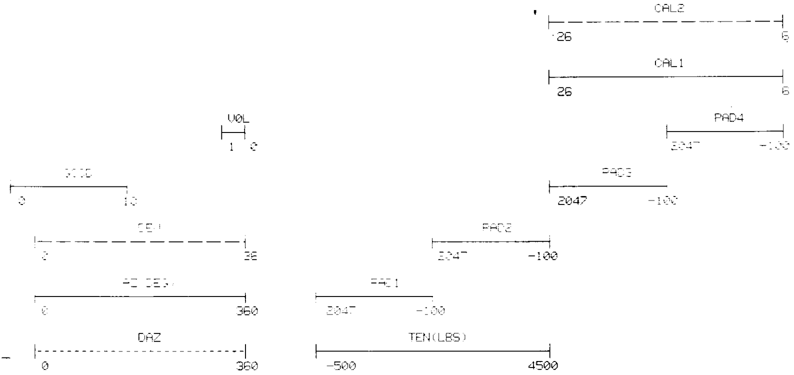
REMARKS RUN (2)

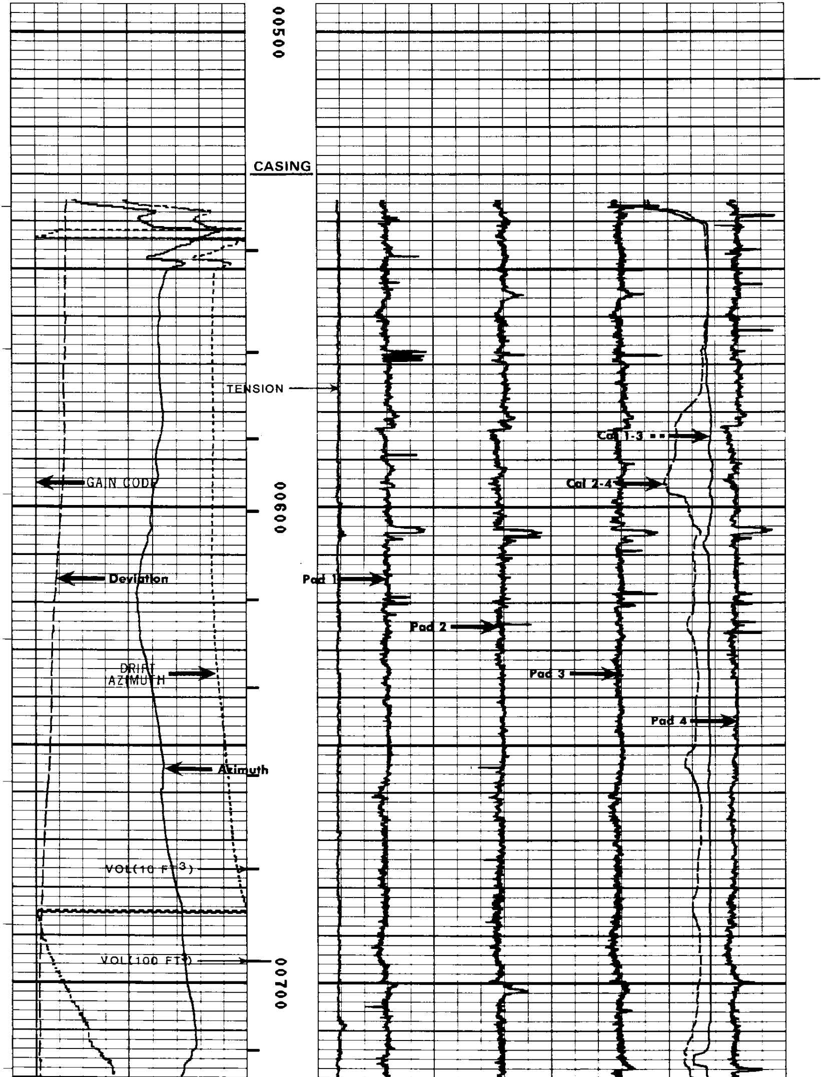
TAYLOR RIG 4
BHT 105 F & 105 F
TOTAL BOREHOLE VOLUME RECORDED = 240 FT3
CENTRALIZER - PCM - ELECTRONICS - MANDREL
4304XA052919 - 3508XA071095 - 1016EA078387 - 1010MA072657

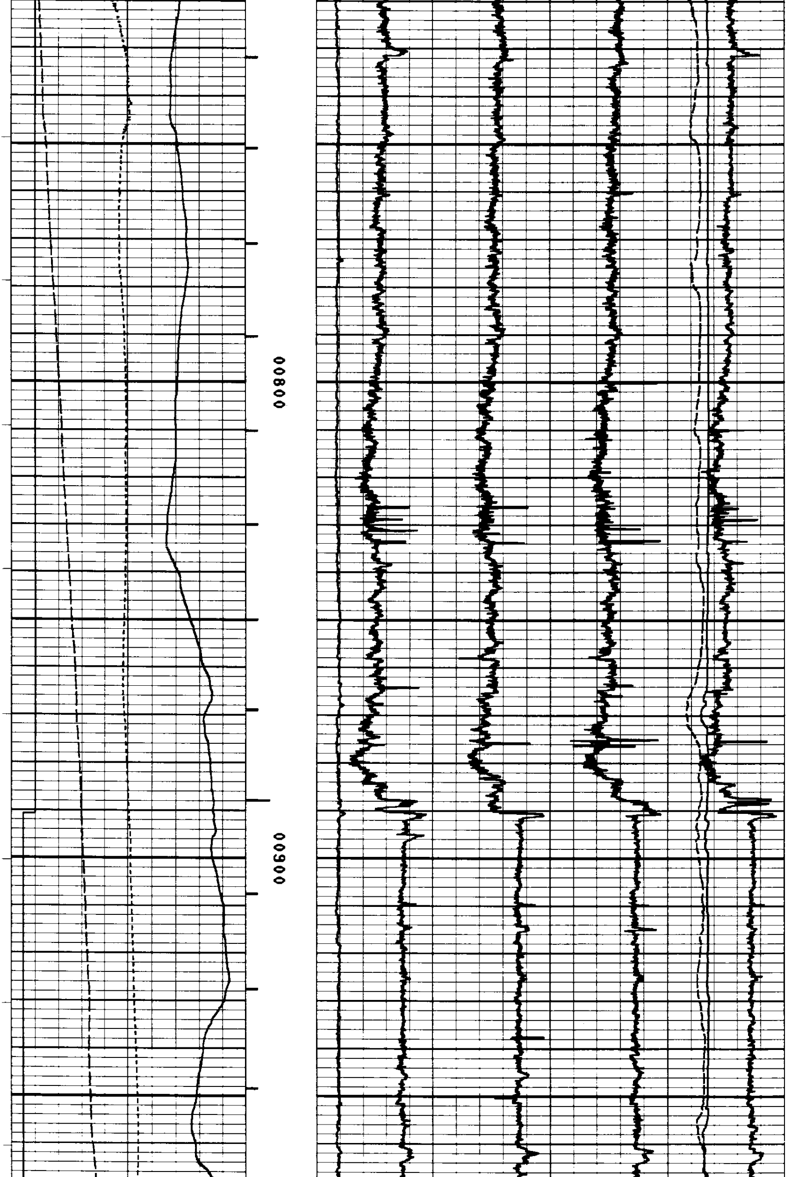
OREGON NATURAL GAS DEVELOPMENT CORP.

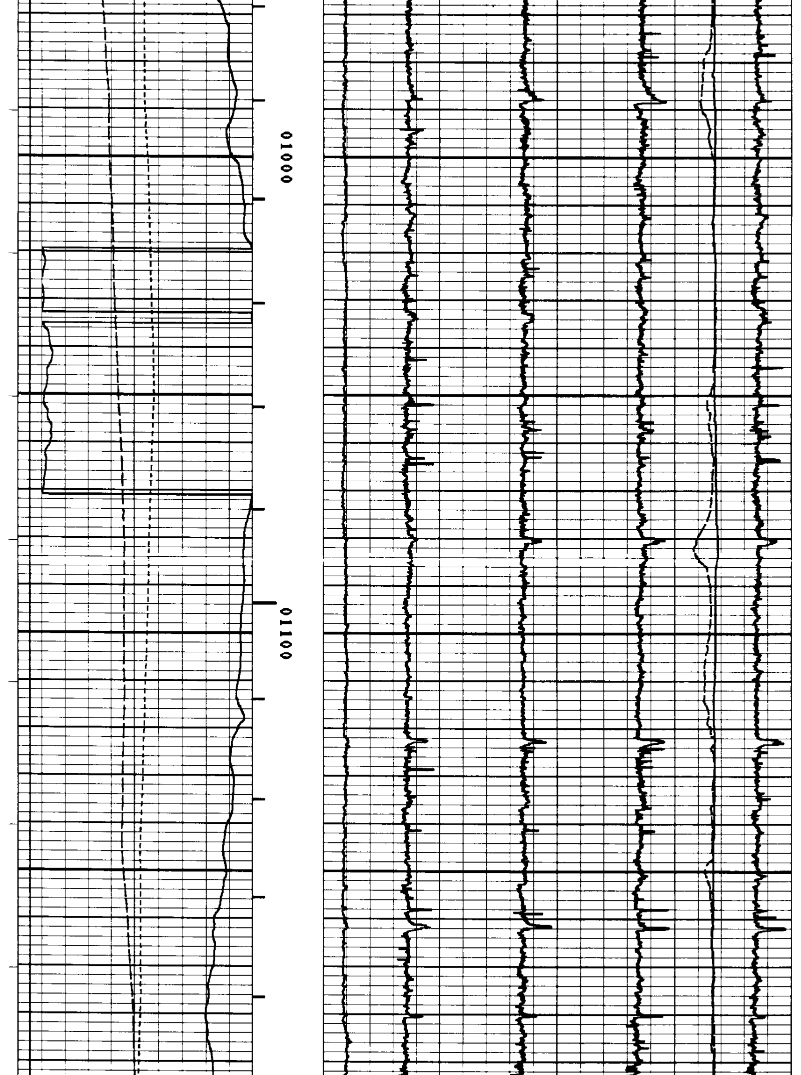
I. W. 13b - 11

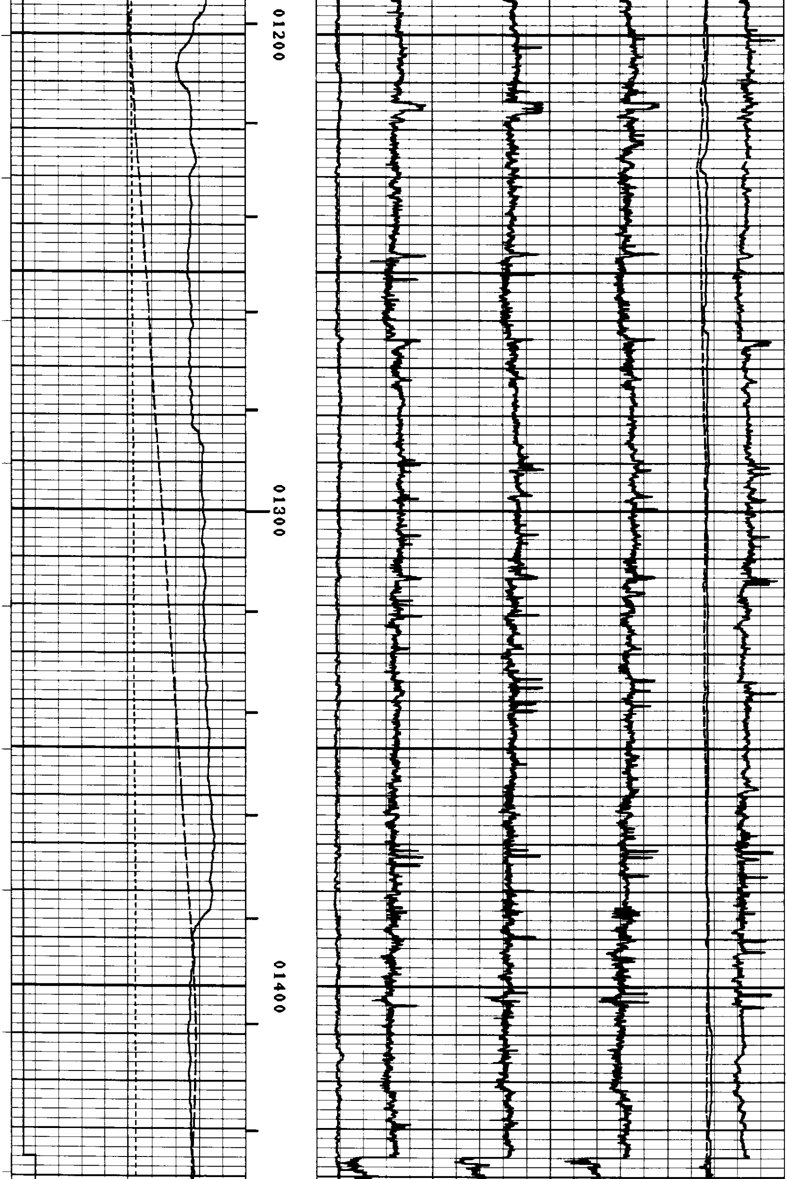
SERVICE DL3508 FILE 6

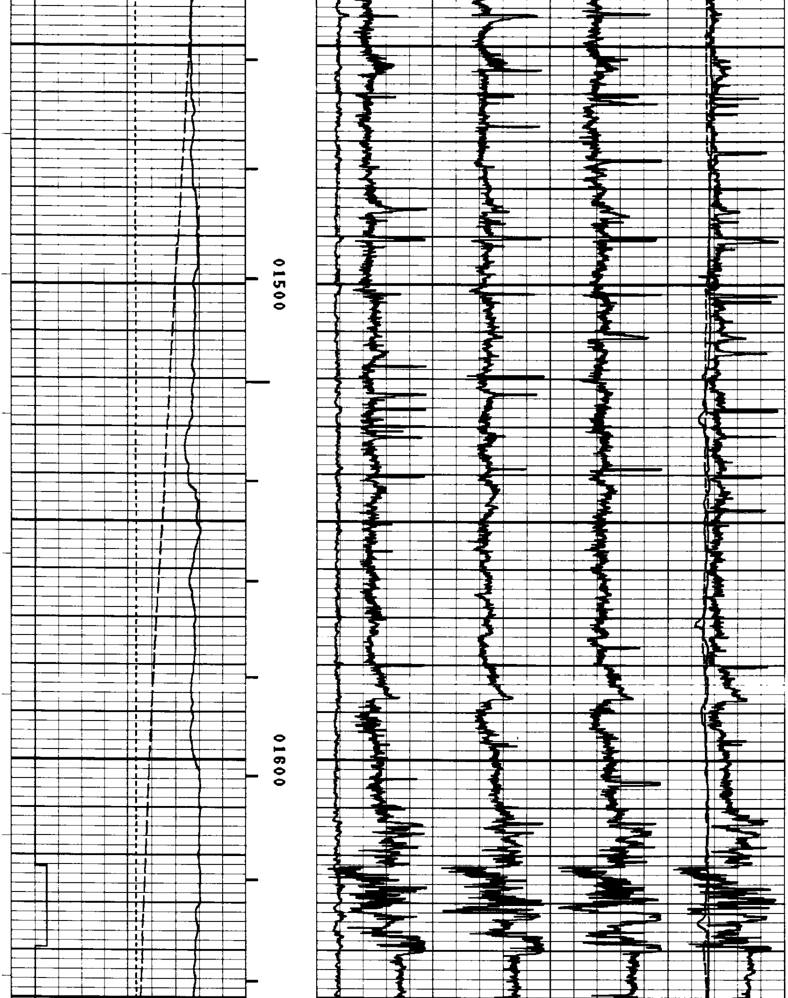


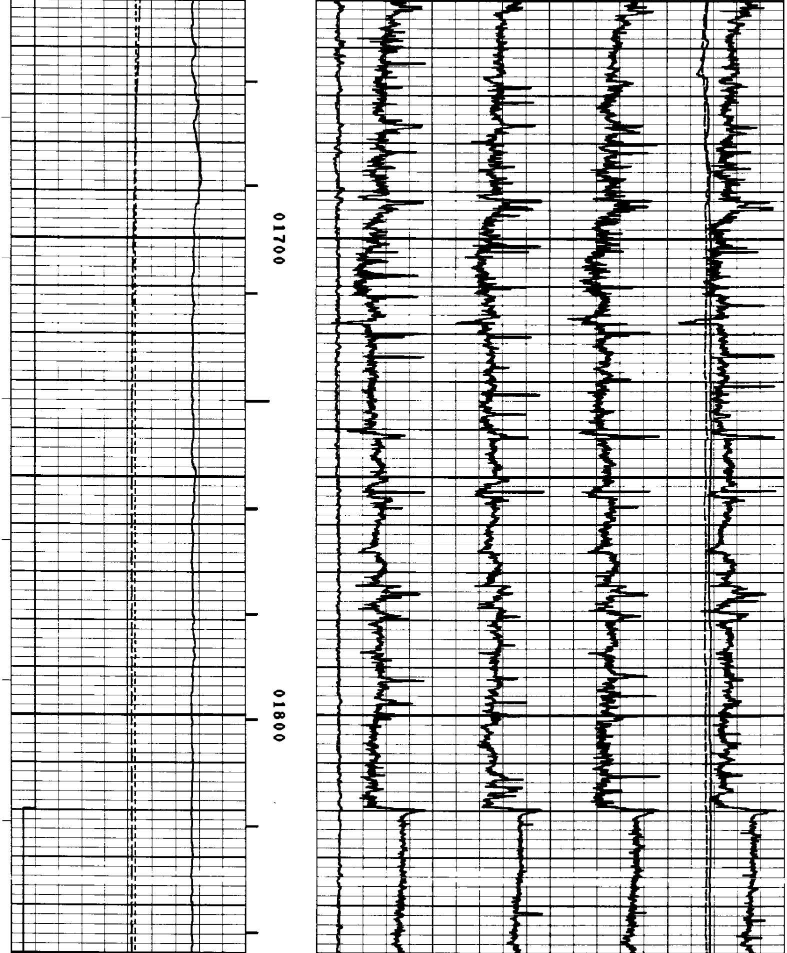


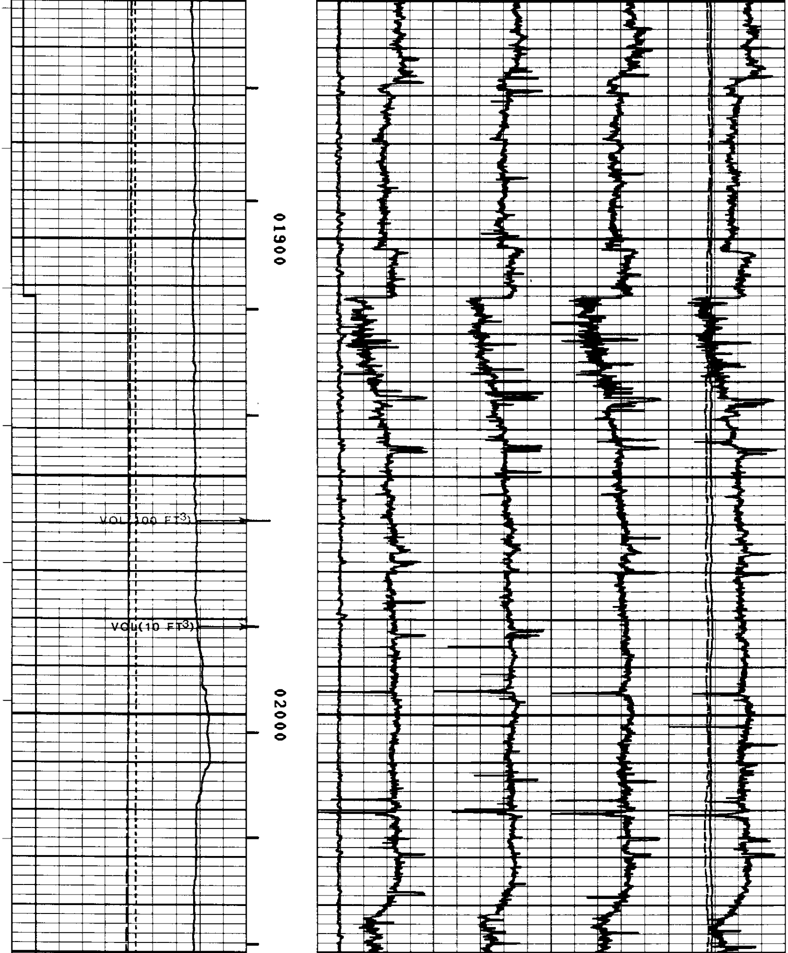


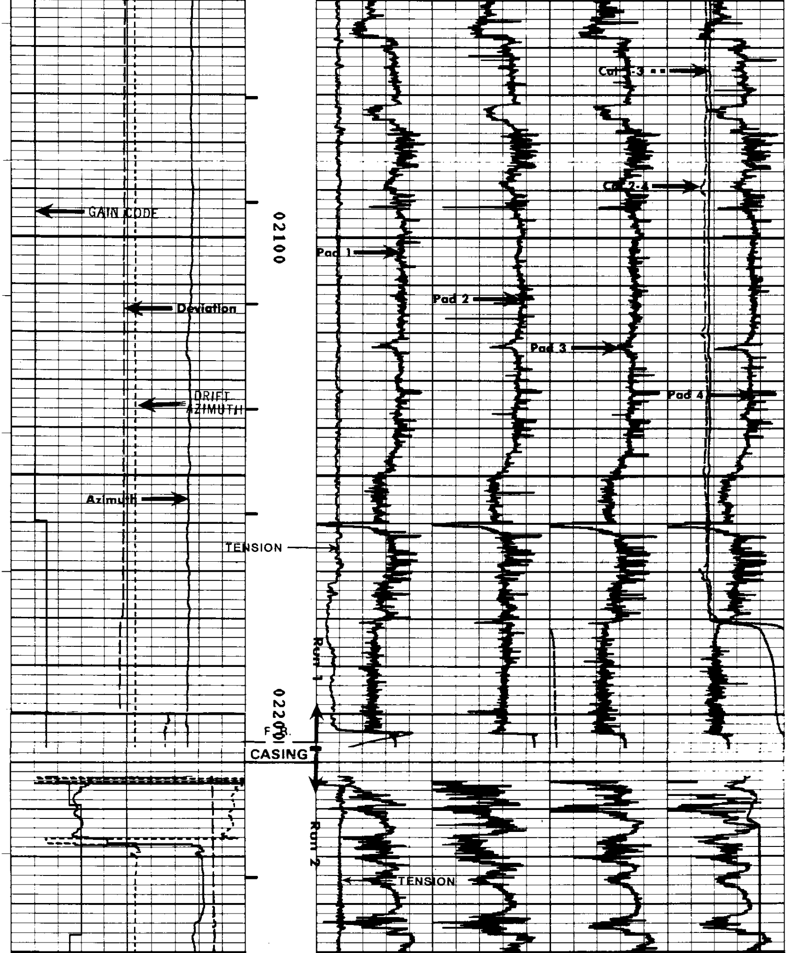


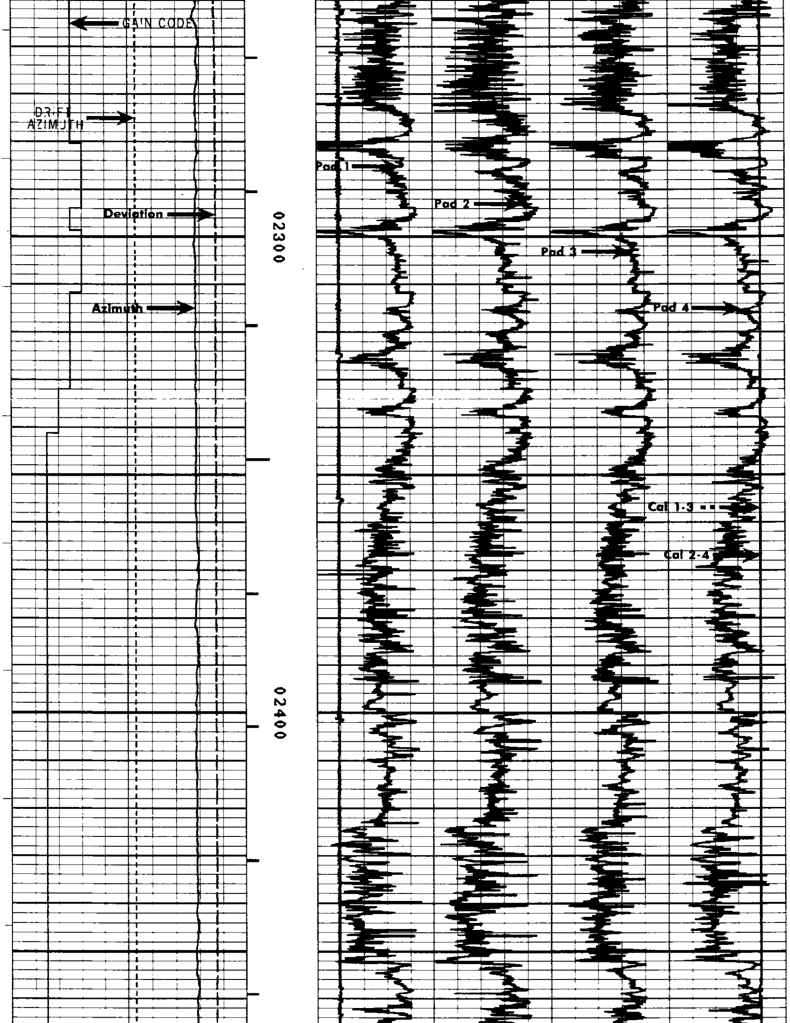


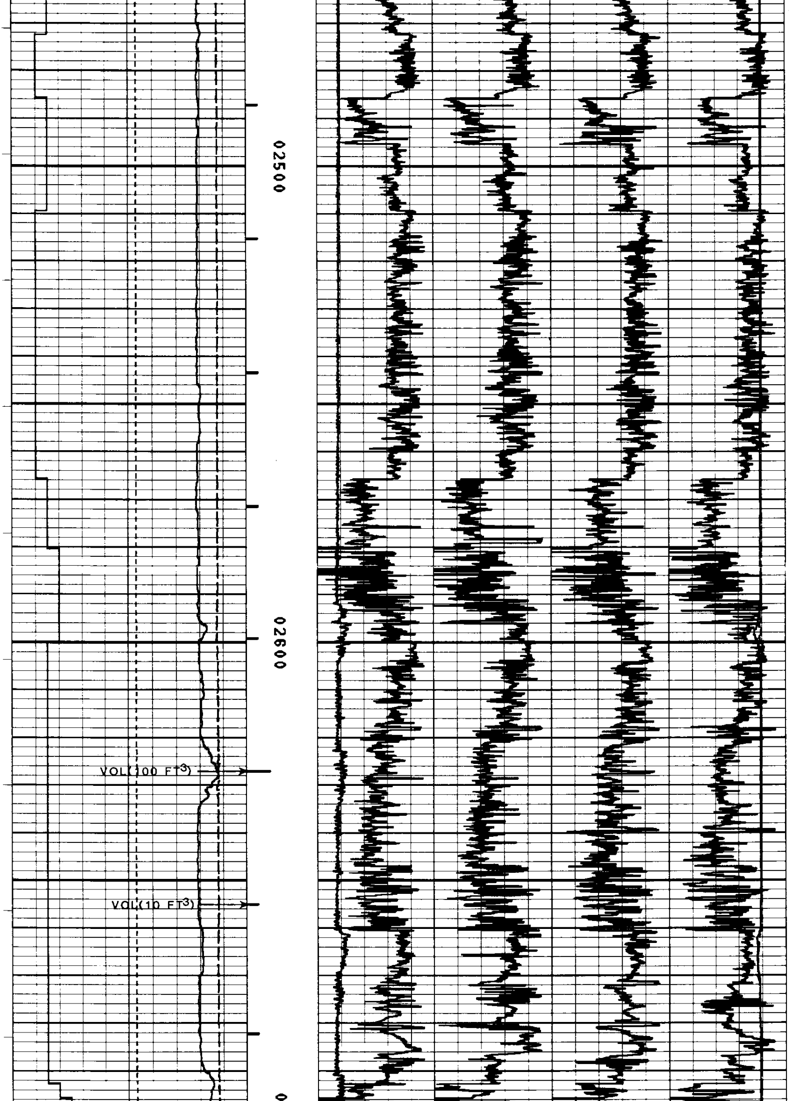


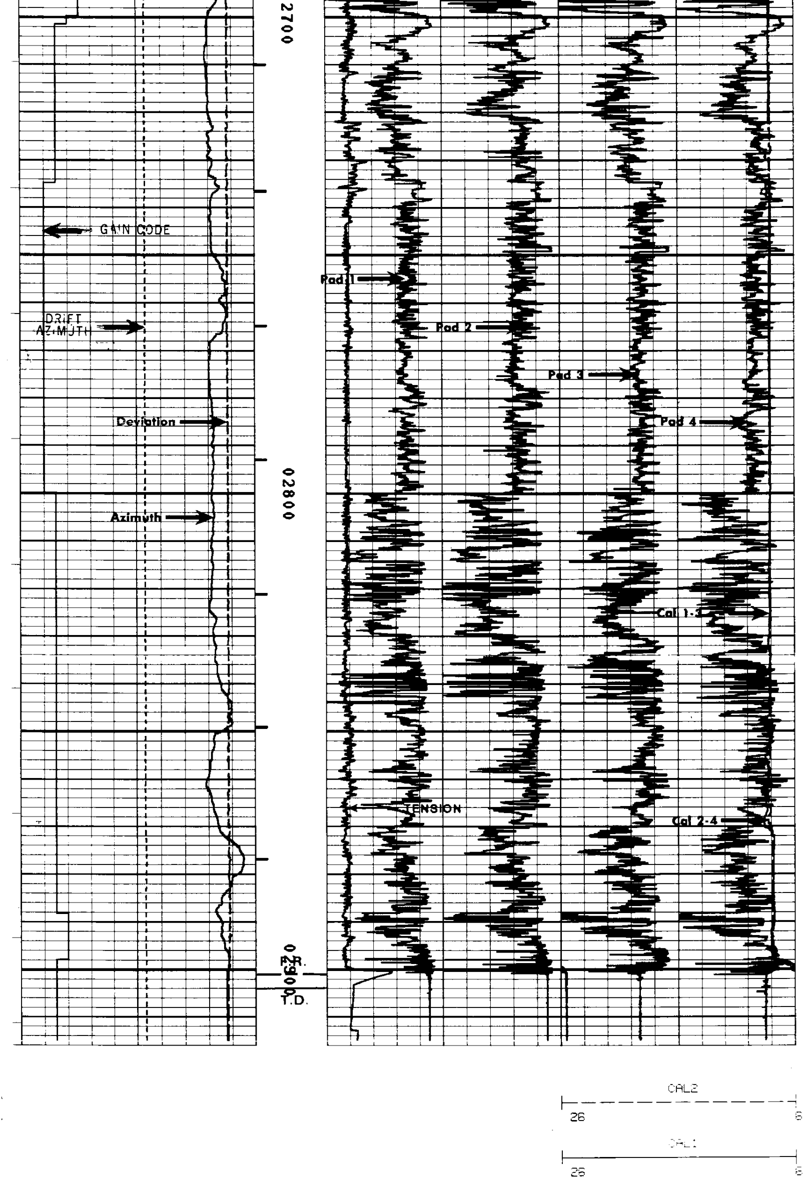


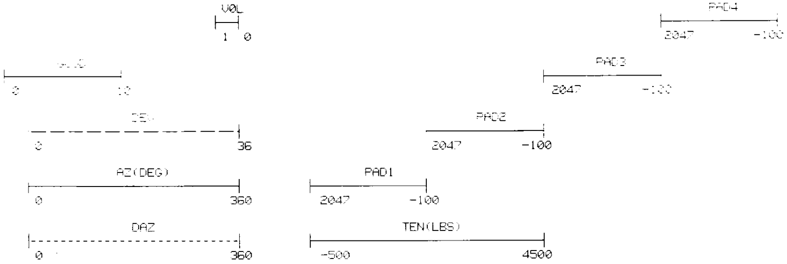










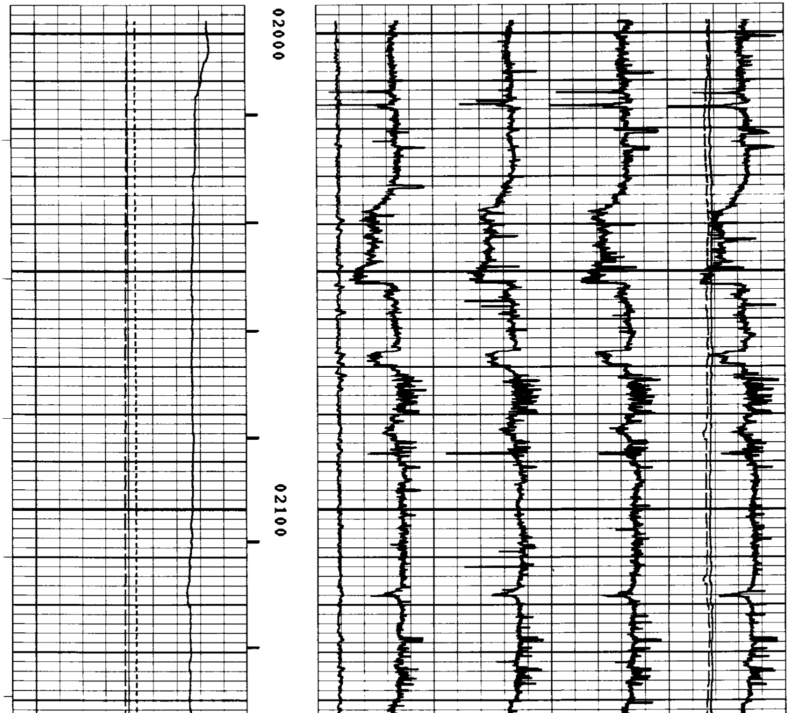


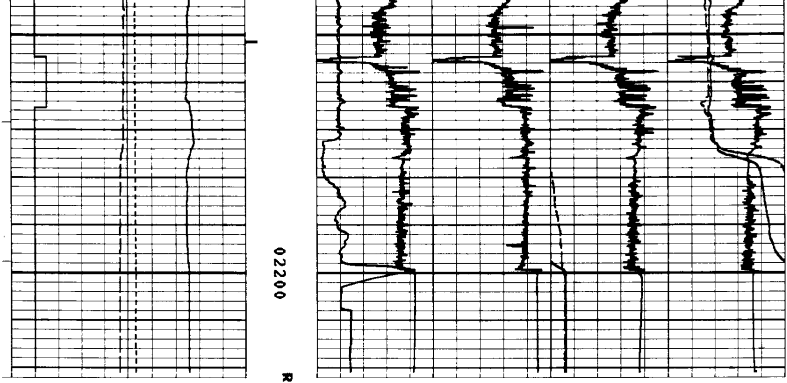
OREGON NATURAL GAS DEVELOPMENT CORP.

I. W. 13b - 11

SERVICE DL3508 FILE 4

REPEAT SECTION





Run 1

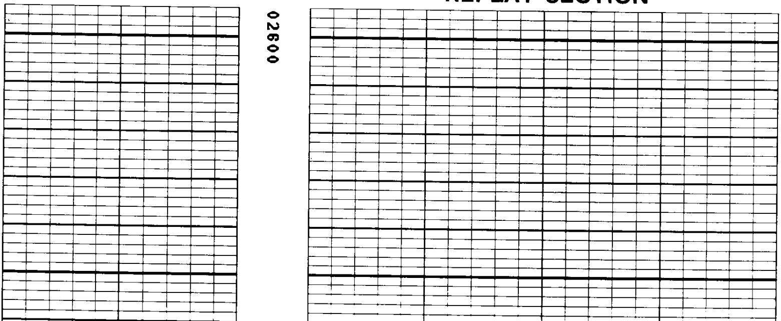
Run 2

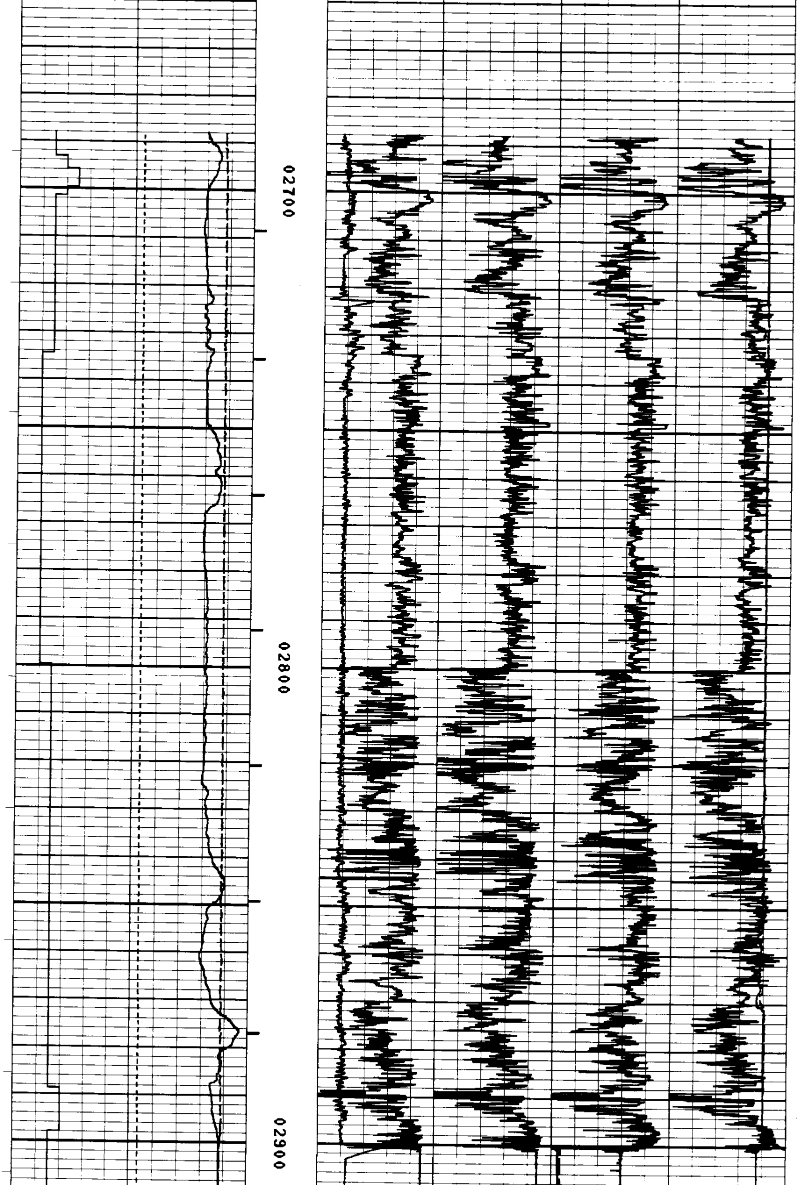
ORECON NATURAL GAS DEVELOPMENT CORP.

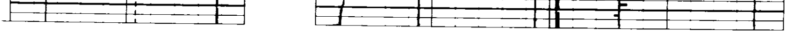
I. W. 13b - 11

SERVICE DL3508 FILE 4

REPEAT SECTION



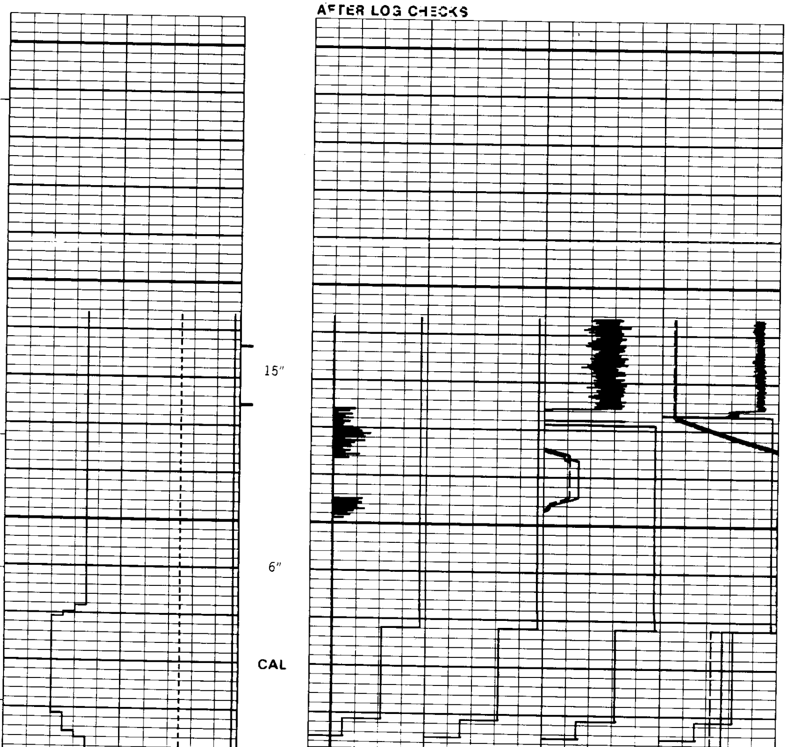


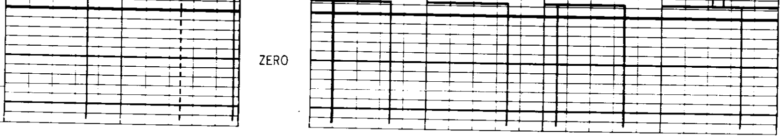


OREGON NATURAL GAS DEVELOPMENT CORP.

I. W. 13b - 11

SERVICE DL3508 FILE 9

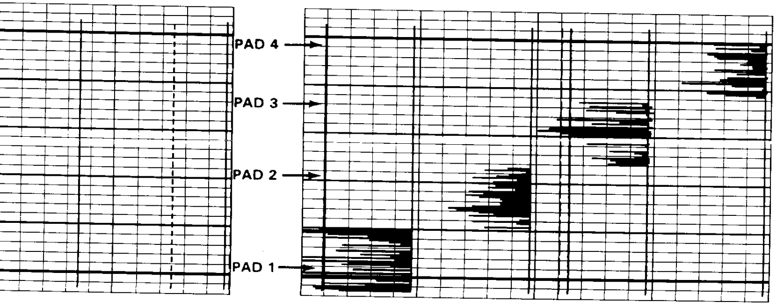




OREGON NATURAL GAS DEVELOPMENT CORP.

I. W. 13b - 11

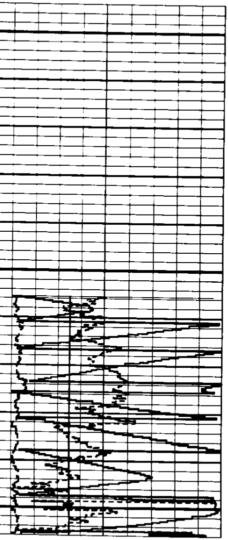
SERVICE DL3508 FILE 8



OREGON NATURAL GAS DEVELOPMENT CORP.

I. W. 13b - 11

SERVICE DL3508 FILE 7



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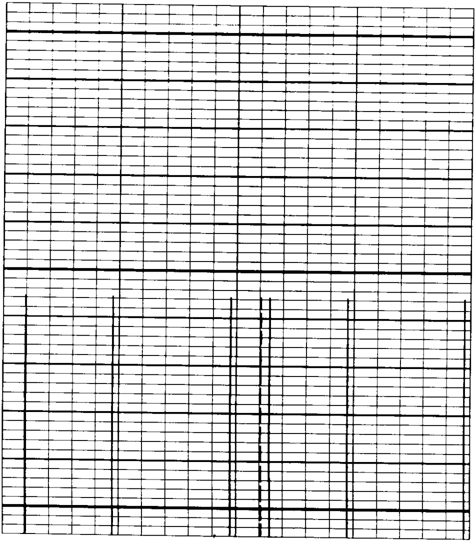
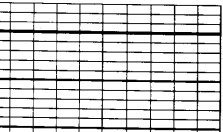


OREGON NATURAL GAS DEVELOPMENT CORP.

I. W. 13b - 11

SERVICE DL3508 FILE 3

Run 2



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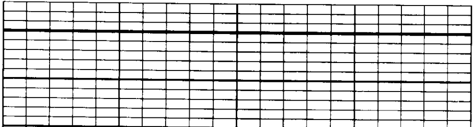

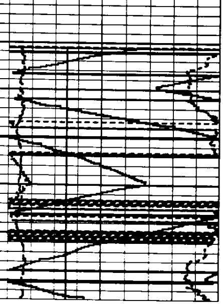

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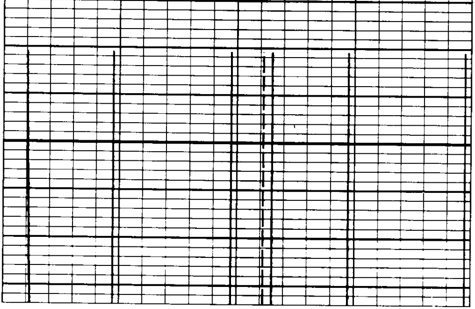

OREGON NATURAL GAS DEVELOPMENT CORP.

I. W. 13b - 11

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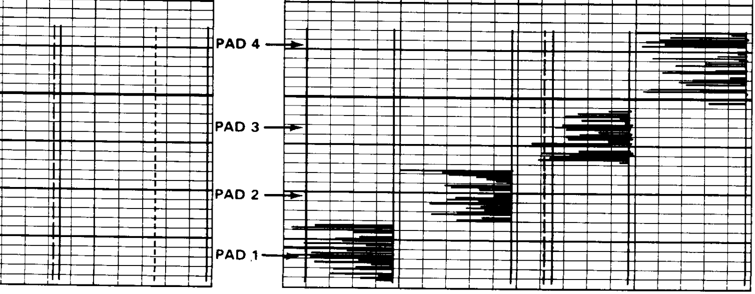

REGON NATURAL GAS DEVELOPMENT CORP.

. W. 13c - 11

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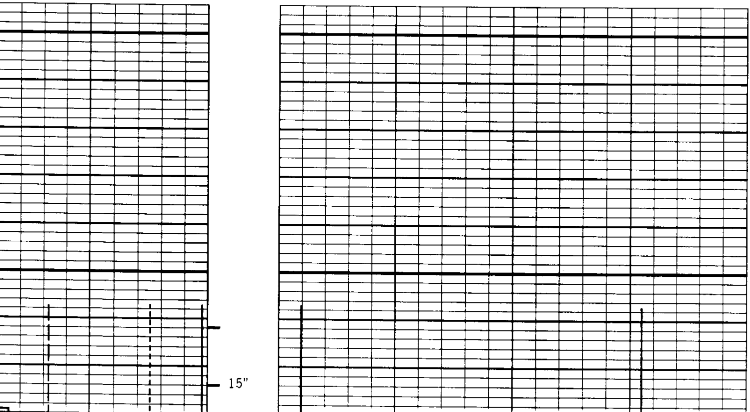

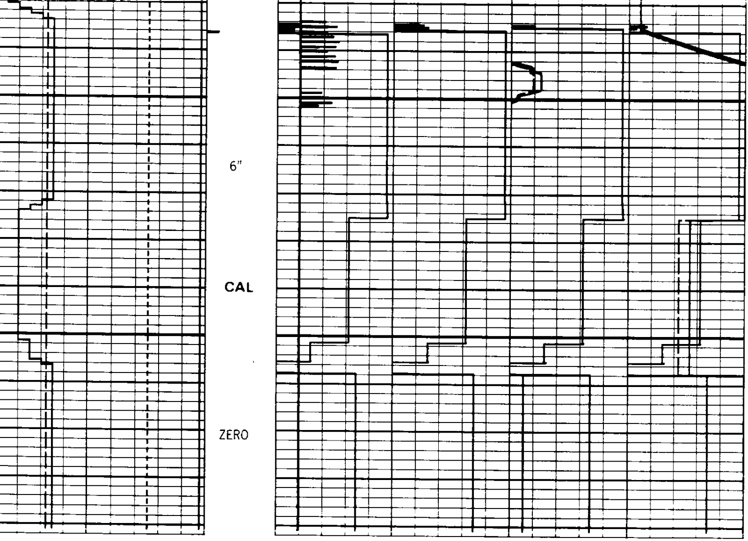

EGON NATURAL GAS DEVELOPMENT CORP.

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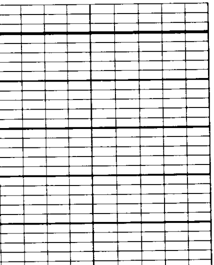

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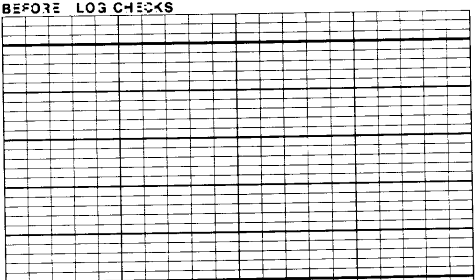

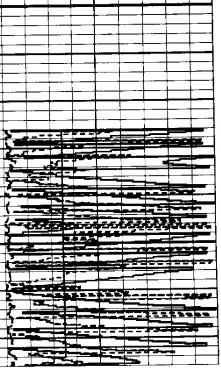

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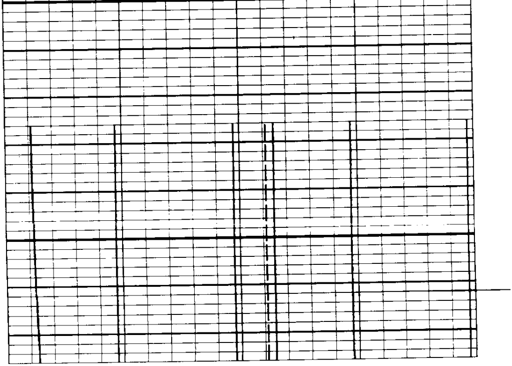

OREGON NATURAL GAS DEVELOPMENT CORP.

I. W. 13b - 11

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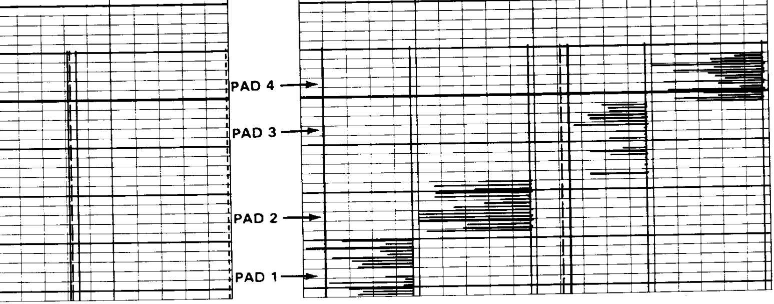
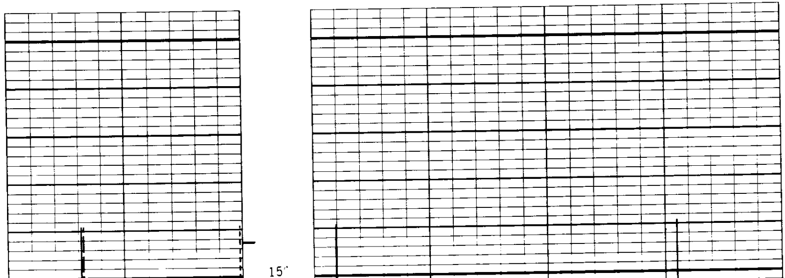
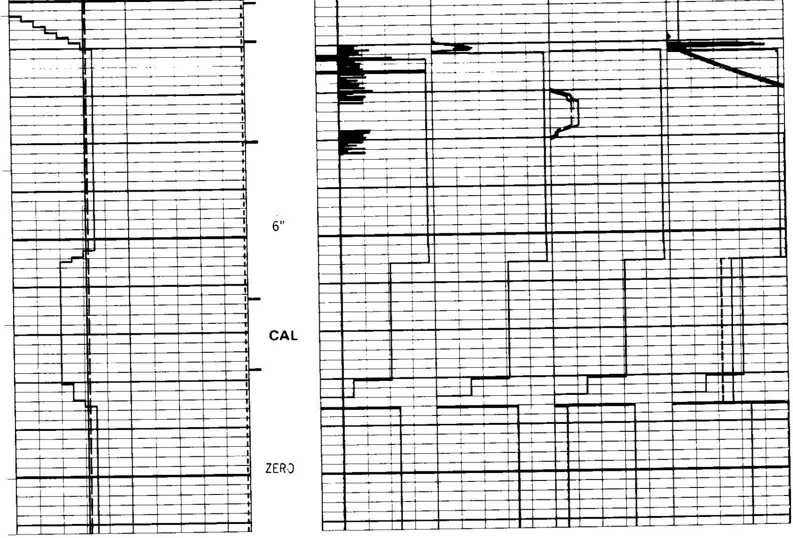


OREGON NATURAL GAS DEVELOPMENT CORP.

I. W. 13b - 11

SERVICE DL3503 FILE 1





OREGON NATURAL GAS DEVELOPMENT CORP.

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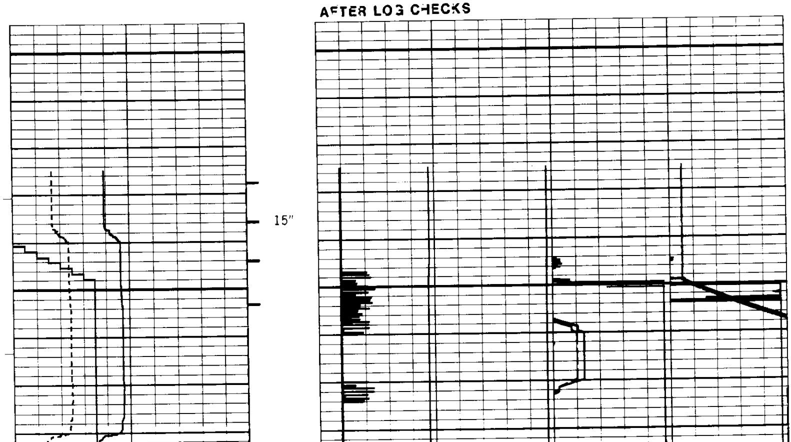
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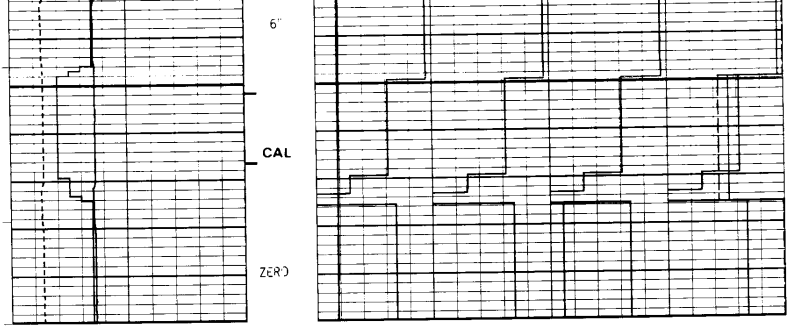

OREGON NATURAL GAS DEVELOPMENT CORP.

I. W. 13b - 11

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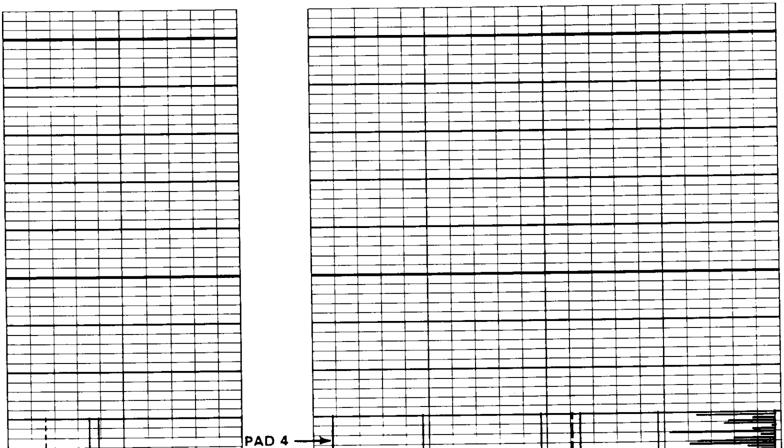
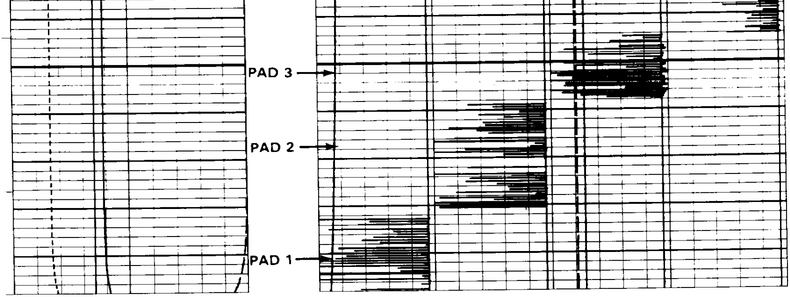
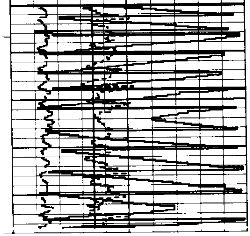
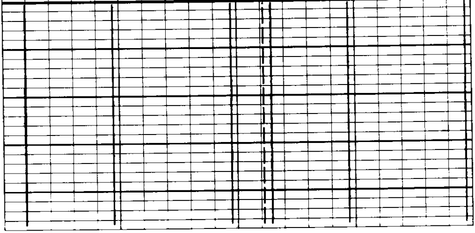




OREGON NATURAL GAS DEVELOPMENT CORP.

I. W. 13b - 11

SERVICE DL3508 FILE 6