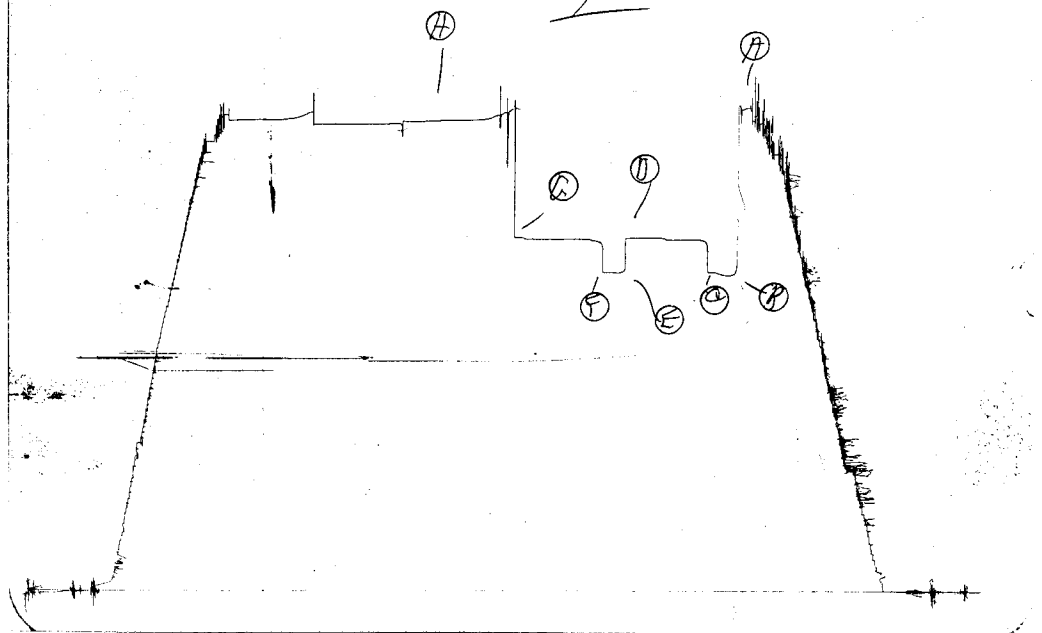


1051 DST #1

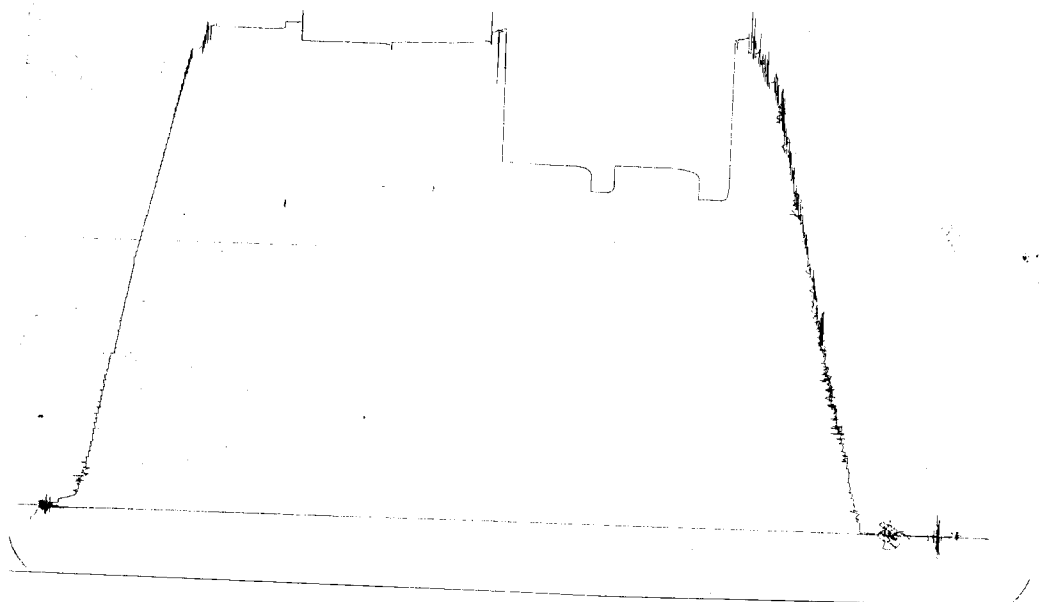
KT 15508



Inside Recorder

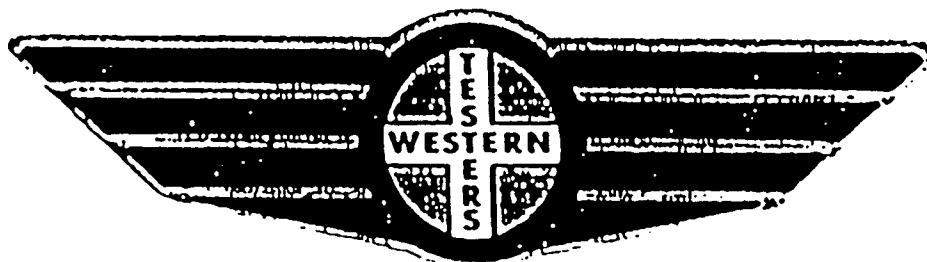
4332 DST #1

KT 15508



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY GRAHAM-MICHAELIS CORPORATION LEASE & WELL NO. MCMINIMY #2-19 SEC. 19 TWP 33S RGE. 21W TEST 1 DATE 2/28/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	2/28/90	TICKET	:	15508
CUSTOMER	:	GRAHAM & MICHAELIS CORPORATION	LEASE	:	MCMINIMY
WELL	:	#2-19	TEST:	:	1
ELEVATION	:	1914 GL	GEOLOGIST	:	ALBERTS
SECTION	:	19	FORMATION	:	MORROW SAND
RANGE	:	21W	COUNTY	:	CLARK
GAUGE SN#	:	1051	RANGE	:	4250
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	5316	TO	:	5360	TOTAL DEPTH	:	5360
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	5311	SIZE	:	6.63			
PACKER DEPTH	:	5316	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	ALLEN DRILLING RIG #5			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	54
WEIGHT	:	9.1	WATER LOSS (CC)	:	9.6
CHLORIDES (PPM)	:	14000			
JARS-MAKE	:	WTC	SERIAL NUMBER	:	401
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	5288	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	28	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	44	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5 XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD-STRONG BLOW-GAS TO SURFACE
BLOW COMMENT #2 : 1 MINUTE
BLOW COMMENT #3 : SEE FLOW CHART
BLOW COMMENT #4 :

RECOVERED : 10 FT OF: CONDENSATE

Total Barrels Fluid = 0.14
Total Fluid Prod Rate = 5.77 BFPD
Indicated Wtr Rate = 0.06 BWPD

REMARK 1 :
REMARK 2 : PULLED TOOL LOOSE & LET HANG TILL DAYLIIGHT 7:30 AM
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	1:00 AM	TIME STARTED OFF BOTTOM :	3:40 AM
WELL TEMPERATURE :	123		
INITIAL HYDROSTATIC PRESSURE		(A)	2683
INITIAL FLOW PERIOD MIN:	20	(B)	1759 PSI TO (C) : 1777
INITIAL CLOSED IN PERIOD MIN:	60	(D)	1965
FINAL FLOW PERIOD MIN:	15	(E)	1775 PSI TO (F) : 1775
FINAL CLOSED IN PERIOD MIN:	66	(G)	1969
FINAL HYDROSTATIC PRESSURE		(H)	2607

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : GRAHAM & MICHAELIS CORPORATION
RIG : CLARK-KANSAS
FIELD : MCMINIMY
WELL : #2-19
DATE : 2/28/90
GAUGE NO : 1051

OPERATIONAL COMMENTS

PULLED TOOL LOOSE & LET HANG TILL DAYLIIGHT 7:30 AM

COMPANY : GRAHAM & MICHAELIS CORPORATION

WELL : #2-19
GAUGE # : 1051
DATE : 28/ 2/90

FIELD : MCMINIMY
JOB # : 15508
DEPTH : 5360
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	1: 0: 0	0.000	1759.000	123.00	0.000
3	1: 4:59	0.083	1759.000	123.00	0.000
4	1:10: 0	0.167	1762.000	123.00	3.000
5	1:15: 0	0.250	1773.000	123.00	11.000
6	1:19:59	0.333	1777.000	123.00	4.000
INITIAL SHUT-IN PERIOD					
7	1:22:59	0.383	1942.000	123.00	165.000
8	1:25:59	0.433	1953.000	123.00	11.000
9	1:28:59	0.483	1957.000	123.00	4.000
10	1:31:59	0.533	1957.000	123.00	0.000
11	1:34:59	0.583	1957.000	123.00	0.000
12	1:37:59	0.633	1957.000	123.00	0.000
13	1:40:59	0.683	1957.000	123.00	0.000
14	1:43:59	0.733	1957.000	123.00	0.000
15	1:46:59	0.783	1957.000	123.00	0.000
16	1:49:59	0.833	1957.000	123.00	0.000
17	1:52:59	0.883	1961.000	123.00	4.000
18	1:55:59	0.933	1965.000	123.00	4.000
19	1:58:59	0.983	1965.000	123.00	0.000
20	2: 1:59	1.033	1965.000	123.00	0.000
21	2: 4:59	1.083	1965.000	123.00	0.000
22	2: 7:59	1.133	1965.000	123.00	0.000
23	2:10:59	1.183	1965.000	123.00	0.000
24	2:13:59	1.233	1965.000	123.00	0.000
25	2:16:59	1.283	1965.000	123.00	0.000
26	2:19:59	1.333	1965.000	123.00	0.000
FINAL FLOW PERIOD					
27	2:21: 0	1.350	1775.000	123.00	-190.000
28	2:24:59	1.417	1775.000	123.00	0.000
29	2:30: 0	1.500	1775.000	123.00	0.000
30	2:34:59	1.583	1775.000	123.00	0.000
FINAL SHUT-IN PERIOD					
31	2:37:59	1.633	1943.000	123.00	168.000
32	2:40:59	1.683	1950.000	123.00	7.000
33	2:43:59	1.733	1953.000	123.00	3.000
34	2:46:59	1.783	1953.000	123.00	0.000
35	2:49:59	1.833	1953.000	123.00	0.000
36	2:52:59	1.883	1959.000	123.00	6.000
37	2:55:59	1.933	1959.000	123.00	0.000
38	2:58:59	1.983	1959.000	123.00	0.000
39	3: 1:59	2.033	1959.000	123.00	0.000
40	3: 4:59	2.083	1959.000	123.00	0.000
41	3: 7:59	2.133	1959.000	123.00	0.000
42	3:10:59	2.183	1959.000	123.00	0.000
43	3:13:59	2.233	1959.000	123.00	0.000
44	3:16:59	2.283	1959.000	123.00	0.000
45	3:19:59	2.333	1959.000	123.00	0.000
46	3:22:59	2.383	1959.000	123.00	0.000
47	3:25:59	2.433	1959.000	123.00	0.000
48	3:28:59	2.483	1959.000	123.00	0.000

COMPANY : GRAHAM & MICHAELIS CORPORATION

WELL : #2-19
GAUGE # : 1051
DATE : 28/ 2/90

FIELD : MCMINIMY
JOB # : 15508
DEPTH : 5360
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	3:31:59	2.533	1959.000	123.00	0.000
50	3:34:59	2.583	1966.000	123.00	7.000
51	3:37:59	2.633	1968.000	123.00	2.000
52	3:40:59	2.683	1969.000	123.00	1.000

WESTERN TESTING CO. INC.

GAS FLOW REPORT

Date : 2/28/90 Ticket # : 15508
 Customer : GRAHAM & MICHAELIS CORPORATION Lease : MCMINIMY
 Well : #2-19 Test : 1 Geologist : ALBERTS
 Elevation (KB) : 1914 GL Formation : MORROW SAND
 Section : 19 Township : 33
 Range : 21W County : CLARK State : KANSAS
 Gauge SN # : 1051 Range : 4250 Clock : 12

TIME GAUGE (MIN)	TESTER TYPE	ORFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

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01	MERLA	2		GAS TO SURFACE
10	MERLA	2	130 PSIG	15160000 CFPD
20	MERLA	2	130 PSIG	15160000 CFPD

SECOND FLOW

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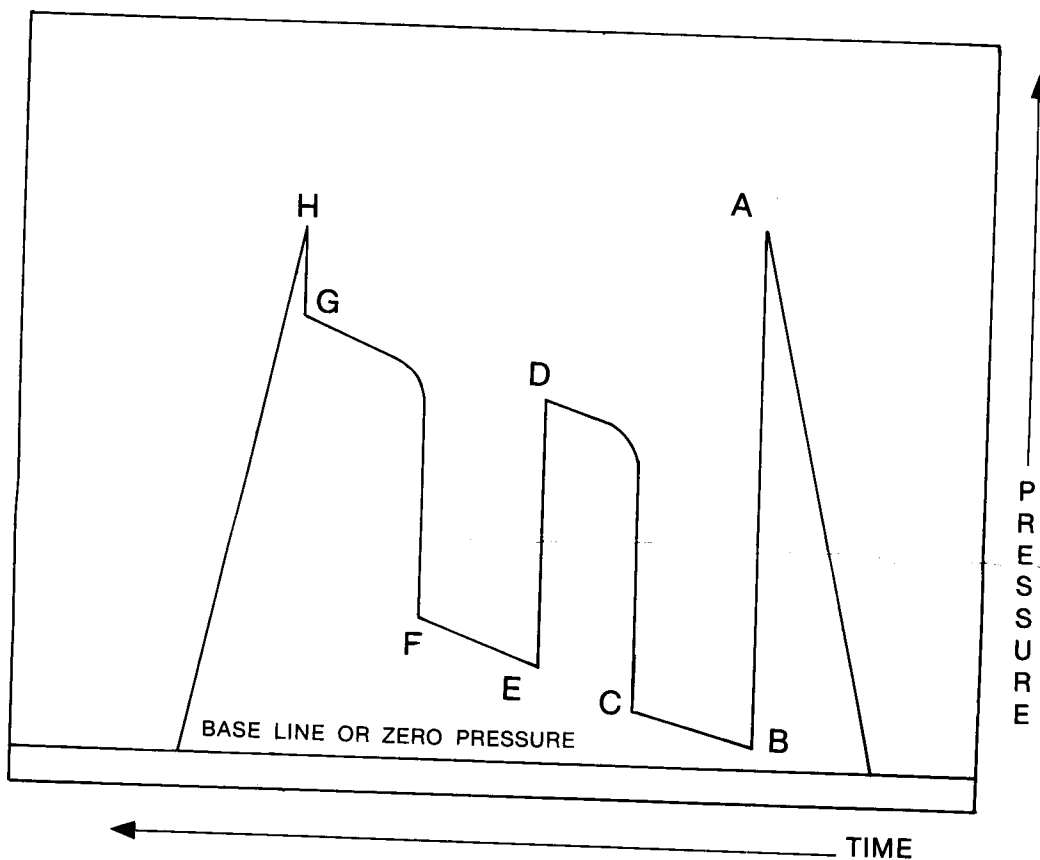
10	MERLA	2	140 CFPD	16110000 CFPD
20	MERLA	2	140 CFPD	16110000 CFPD

Gas Bottle SN # :
 Date Bottle Filled :
 Date to be Invoiced :

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

AK-1 Recorders



A - Initial Hydrostatic

B - First Initial Flow

C - First Final Flow

D - Initial Shut-In

E - Second Initial Flow

F - Second Final Flow

G - Final Shut-In

H - Final Hydrostatic