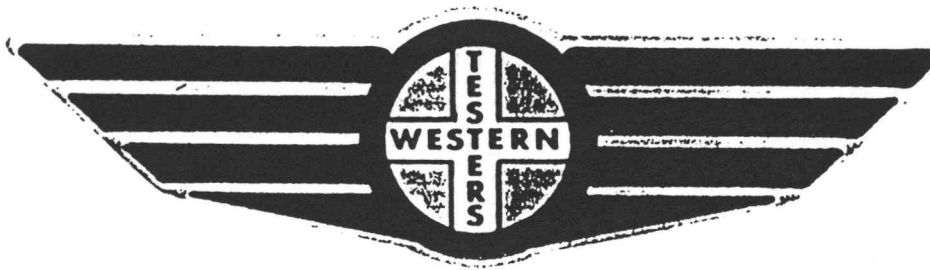


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY R R ABDERHALDEN

LEASE & WELL NO. CARVER #4

SEC. 27 TWP. 26S RGE. 6E TEST NO. 1 DATE 3/28/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 3-28-88 TICKET : 12488
CUSTOMER : R.R. ABDERHALDEN LEASE : CARVER
WELL : #4 TEST: 1 GEOLOGIST : ABDERHALDEN
ELEVATION : NA FORMATION : MISSISSIPPI
SECTION : 27 TOWNSHIP : 26S
RANGE : 6E COUNTY : BUTLER STATE : KANSAS
GAUGE SN# : 3659 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 2796 TO : 2805 TOTAL DEPTH : 2805
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 2791 SIZE : 6.63
PACKER DEPTH : 2796 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : WHITE & ELLIS RIG 4
MUD TYPE : CHEMICAL VISCOSITY : 46
WEIGHT : 9.5 WATER LOSS (CC) : 11.2
CHLORIDES (PPM) : 1200
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 245 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2530 FT I.D. inch : 3.80
TEST TOOL LENGTH : 21 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 9 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-WEAK SURFACE BLOW.
BLOW COMMENT #2 : FINAL FLOW-WEAK SURFACE BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 15 FT OF: OIL & GAS CUT MUD
20% GAS-20% OIL-60% MUD
RECOVERED : 60 FT OF: OIL & GAS CUT MUD
5% GAS-15% OIL-80% MUDDY WTR

CHLORIDES: 34000 PPM

Total Barrels Fluid = 0.37
Total Fluid Prod Rate = 5.90 BFPD
Indicated Oil Rate = 1.18 BOPD
Indicated Wtr Rate = 1.97 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 165 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 5:40 AM TIME STARTED OFF BOTTOM : 8:40 AM
WELL TEMPERATURE : 102
INITIAL HYDROSTATIC PRESSURE (A) 1424
INITIAL FLOW PERIOD MIN: 45 (B) 37 PSI TO (C) : 37
INITIAL CLOSED IN PERIOD MIN: 45 (D) 602
FINAL FLOW PERIOD MIN: 45 (E) 61 PSI TO (F) : 61
FINAL CLOSED IN PERIOD MIN: 45 (G) 598
FINAL HYDROSTATIC PRESSURE (H) 1412

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : R.R. ABDERHALDEN
RIG : BUTLER-KANSAS
FIELD : CARVER
WELL : #4
DATE : 3-28-88
GAUGE NO : 3659

OPERATIONAL COMMENTS

RECOVERED 165 FEET OF GAS ABOVE FLUID.

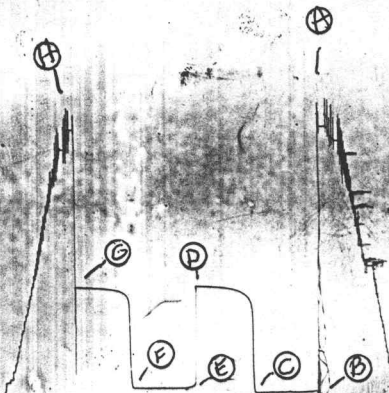
COMPANY : R.R. ABDERHALDEN
 WELL : #4
 GAUGE # : 3659
 DATE : 28/ 3/88

FIELD : CARVER
 JOB # : 12488
 DEPTH : 2805
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P_{(i-1)}$
1	5:40: 0	0.000	37.000	102.00	0.000
2	5:44:59	0.083	37.000	102.00	0.000
3	5:50: 0	0.167	37.000	102.00	0.000
4	5:55: 0	0.250	37.000	102.00	0.000
5	5:59:59	0.333	37.000	102.00	0.000
6	6: 5: 0	0.417	37.000	102.00	0.000
7	6:10: 0	0.500	37.000	102.00	0.000
8	6:14:59	0.583	37.000	102.00	0.000
9	6:20: 0	0.667	37.000	102.00	0.000
10	6:25: 0	0.750	37.000	102.00	0.000
11	6:28: 0	0.800	500.000	102.00	463.000
12	6:31: 0	0.850	539.000	102.00	39.000
13	6:34: 0	0.900	555.000	102.00	16.000
14	6:37: 0	0.950	567.000	102.00	12.000
15	6:40: 0	1.000	575.000	102.00	8.000
16	6:43: 0	1.050	581.000	102.00	6.000
17	6:46: 0	1.100	583.000	102.00	2.000
18	6:49: 0	1.150	587.000	102.00	4.000
19	6:52: 0	1.200	591.000	102.00	4.000
20	6:55: 0	1.250	593.000	102.00	2.000
21	6:58: 0	1.300	595.000	102.00	2.000
22	7: 1: 0	1.350	598.000	102.00	3.000
23	7: 4: 0	1.400	600.000	102.00	2.000
24	7: 7: 0	1.450	601.000	102.00	1.000
25	7:10: 0	1.500	602.000	102.00	1.000
26	7:11: 0	1.517	61.000	102.00	-541.000
27	7:14:59	1.583	61.000	102.00	0.000
28	7:20: 0	1.667	61.000	102.00	0.000
29	7:25: 0	1.750	61.000	102.00	0.000
30	7:29:59	1.833	61.000	102.00	0.000
31	7:35: 0	1.917	61.000	102.00	0.000
32	7:40: 0	2.000	61.000	102.00	0.000
33	7:44:59	2.083	61.000	102.00	0.000
34	7:50: 0	2.167	61.000	102.00	0.000
35	7:55: 0	2.250	61.000	102.00	0.000
36	7:58: 0	2.300	523.000	102.00	462.000
37	8: 1: 0	2.350	558.000	102.00	35.000
38	8: 4: 0	2.400	569.000	102.00	11.000
39	8: 7: 0	2.450	577.000	102.00	8.000
40	8:10: 0	2.500	583.000	102.00	6.000
41	8:13: 0	2.550	586.000	102.00	3.000
42	8:16: 0	2.600	588.000	102.00	2.000
43	8:19: 0	2.650	590.000	102.00	2.000
44	8:22: 0	2.700	592.000	102.00	2.000
45	8:25: 0	2.750	594.000	102.00	2.000
46	8:28: 0	2.800	596.000	102.00	2.000
47	8:31: 0	2.850	598.000	102.00	2.000
48	8:34: 0	2.900	598.000	102.00	0.000
49	8:37: 0	2.950	598.000	102.00	0.000
50	8:40: 0	3.000	598.000	102.00	0.000

TK+ 12488

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TK+ 12488

3659 BC

TKT 12488



TKT 12488

DIST # 1

Rec 13760

