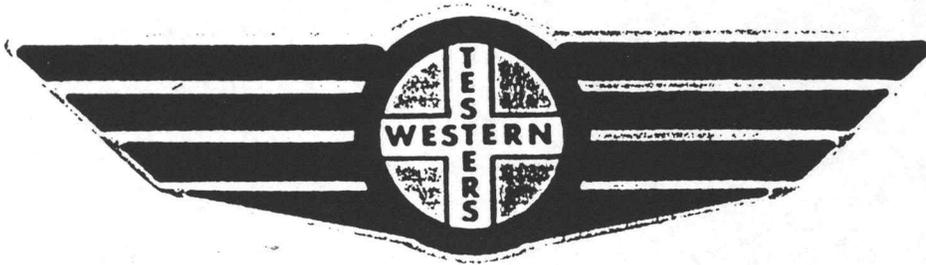


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 1-2-88
CUSTOMER : BLACKHAWK ENERGY CORP.
WELL : #7 TEST: 1
ELEVATION : 1829 GL
SECTION : 15
RANGE : 11W COUNTY : BARTON
GAUGE SN# : 13549 RANGE : 4100
TICKET : 11920
LEASE : HERTHAL
GEOLOGIST : B. BEARD
FORMATION : ARBUCKLE
TOWNSHIP : 17S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3273 TO : 3288 TOTAL DEPTH : 3288
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3268 SIZE : 6.63
PACKER DEPTH : 3273 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : RED TIGER RIG 8
MUD TYPE : CHEMICAL VISCOSITY : 43
WEIGHT : 9.5 WATER LOSS (CC) : 8.0
CHLORIDES (PPM) : 9000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : REVERSED OUT ? :

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 317 FT I.D. inch : 2.75
DRILL PIPE LENGTH : 2936 FT I.D. inch : 4.25
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 15 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 5 FH

BLOW COMMENT #1 : INITIAL FLOW-STRONG BLOW-OFF BOTTOM OF BUCKET IN
2 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-OFF BOTTOM OF BUCKET IN 3 MINUTES
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 60 FT OF: FREE OIL GRAVITY 43
 RECOVERED : 420 FT OF: GAS & MUD CUT OILY WATER
 15% GAS-5% MUD-40% OIL-40% WATER
 RECOVERED : 120 FT OF: SLIGHTLY OIL CUT WATER
 5% OIL-95% WATER
 RECOVERED : 600 FT OF: WATER / WITH TRACE OF OIL

CHLORIDES: 14000 PPM

Total Barrels Fluid = 17.82
 Total Fluid Prod Rate = 427.70 BFPD
 Indicated Oil Rate = 85.54 BOPD
 Indicated Wtr Rate = 314.36 BWPD
 Corrected Oil Rate = 445.63 BOPD
 Corrected Wtr Rate = 1637.70 BWPD

REMARK 1 :
 REMARK 2 : GEOLOGIST KEPT OUTSIDE CHART #13553.
 REMARK 3 :
 REMARK 4 :

SET PACKER(S) :	7:00 PM	TIME STARTED OFF BOTTOM :	9:00 PM
WELL TEMPERATURE :	113		
INITIAL HYDROSTATIC PRESSURE		(A)	1638
INITIAL FLOW PERIOD MIN:	30	(B)	189 PSI TO (C) : 410
INITIAL CLOSED IN PERIOD MIN:	30	(D)	1039
FINAL FLOW PERIOD MIN:	30	(E)	517 PSI TO (F) : 628
FINAL CLOSED IN PERIOD MIN:	30	(G)	1033
FINAL HYDROSTATIC PRESSURE		(H)	1628

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : BLACKHAWK ENERGY CORP.
RIG : BARTON-KANSAS
FIELD : HERTHAL
WELL : #7
DATE : 1-2-88
GAUGE NO : 13549

OPERATIONAL COMMENTS

GEOLOGIST KEPT OUTSIDE CHART #13553.

COMPANY : BLACKHAWK ENERGY CORP.
WELL : #7
GAUGE # : 13549
DATE : 2/ 1/88

FIELD : HERTHAL
JOB # : 11920
DEPTH : 3288
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	7: 0: 0	0.000	189.000	113.00	0.000
2	7: 4: 59	0.083	206.000	113.00	17.000
3	7:10: 0	0.167	244.000	113.00	38.000
4	7:15: 0	0.250	290.000	113.00	46.000
5	7:19:59	0.333	331.000	113.00	41.000
6	7:25: 0	0.417	381.000	113.00	50.000
7	7:30: 0	0.500	410.000	113.00	29.000
8	7:33: 0	0.550	870.000	113.00	460.000
9	7:36: 0	0.600	945.000	113.00	75.000
10	7:39: 0	0.650	968.000	113.00	23.000
11	7:42: 0	0.700	991.000	113.00	23.000
12	7:45: 0	0.750	1005.000	113.00	14.000
13	7:48: 0	0.800	1015.000	113.00	10.000
14	7:51: 0	0.850	1023.000	113.00	8.000
15	7:54: 0	0.900	1029.000	113.00	6.000
16	7:57: 0	0.950	1035.000	113.00	6.000
17	8: 0: 0	1.000	1039.000	113.00	4.000
18	8: 1: 0	1.017	517.000	113.00	-522.000
19	8: 4: 59	1.083	517.000	113.00	0.000
20	8:10: 0	1.167	531.000	113.00	14.000
21	8:15: 0	1.250	559.000	113.00	28.000
22	8:19:59	1.333	589.000	113.00	30.000
23	8:25: 0	1.417	616.000	113.00	27.000
24	8:30: 0	1.500	628.000	113.00	12.000
25	8:33: 0	1.550	926.000	113.00	298.000
26	8:36: 0	1.600	966.000	113.00	40.000
27	8:39: 0	1.650	988.000	113.00	22.000
28	8:42: 0	1.700	1000.000	113.00	12.000
29	8:45: 0	1.750	1008.000	113.00	8.000
30	8:48: 0	1.800	1013.000	113.00	5.000
31	8:51: 0	1.850	1020.000	113.00	7.000
32	8:54: 0	1.900	1025.000	113.00	5.000
33	8:57: 0	1.950	1029.000	113.00	4.000
34	9: 0: 0	2.000	1033.000	113.00	4.000

WESTERN TESTING CO. INC.

RT 11920

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