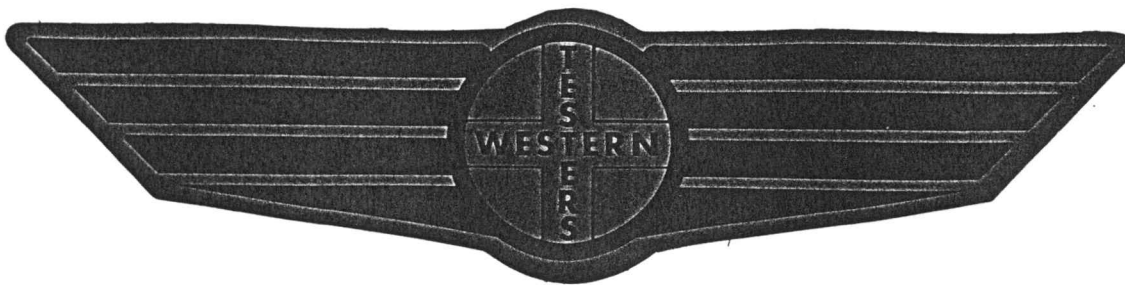


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY PAN WESTERN PETROLEUM, INC. LEASE & WELL NO. DRAW # 1 SEC. 4 TWP. 31S RGE. 6E TEST NO. 1 DATE 8/18/91

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	8/18/91	TICKET	:	17347
CUSTOMER	:	PAN-WESTERN PETROLEUM INC.	LEASE	:	DRAKE
WELL	:	1	TEST:	:	1
ELEVATION	:	N/A	GEOLOGIST	:	ELSTER
SECTION	:	4	FORMATION	:	ARBUCKLE
RANGE	:	6E	COUNTY	:	COWLEY
GAUGE SN#	:	10270	RANGE	:	4150
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	3222	TO	:	3252	TOTAL DEPTH	:	3252
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	3217	SIZE	:	6.63			
PACKER DEPTH	:	3222	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	WHITE & ELLIS RIG 4			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	41
WEIGHT	:	9.3	WATER LOSS (CC)	:	14
CHLORIDES (PPM)	:	7200			
JARS-MAKE	:		SERIAL NUMBER	:	
DID WELL FLOW ?	:		REVERSED OUT ?	:	

DRILL COLLAR LENGTH	:	285	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	2917	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	20	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	30	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5XH

BLOW COMMENT #1	:	INITIAL FLOW PERIOD WEAK BUILDING BLOW-
BLOW COMMENT #2	:	.5 TO 2.5 INCH BLOW.
BLOW COMMENT #3	:	FINAL FLOW PERIOD WEAK BLOW THROUGHOUT-
BLOW COMMENT #4	:	.25 TO .5 INCH BLOW.

RECOVERED	:	5	FT	OF: CLEAN OIL GRAVITY 32
RECOVERED	:	60	FT	OF: OIL CUT MUD
RECOVERED	:	0	FT	OF: 5%OIL;3%GAS;92%MUD
RECOVERED	:	60	FT	OF: SLTLY OIL CUT MUDDY WATER
RECOVERED	:	0	FT	OF: 1%OIL;35%MUD;64%WTR
RECOVERED	:	60	FT	OF: MUDDY WATER-10%MUD;90%WTR
RECOVERED	:	0	FT	OF: W/SHOW OF OIL
RECOVERED	:	120	FT	OF: MUDDY WATER-2%MUD;98%WTR
RECOVERED	:	0	FT	OF: W/SHOW OF OIL

Total Barrels Fluid	=	1.62
Total Fluid Prod Rate	=	19.44 BFPD
Indicated Oil Rate	=	0.55 BOPD
Indicated Wtr Rate	=	13.74 BWPD
Corrected Oil Rate	=	19.91 BOPD
Corrected Wtr Rate	=	498.83 BWPD

REMARK 1 :
 REMARK 2 : CHLORIDES 26000 PPM
 REMARK 3 :
 REMARK 4 :

SET PACKER(S)	:	7:45 AM	TIME STARTED OFF BOTTOM	:	11:45 AM
WELL TEMPERATURE	:	125			
INITIAL HYDROSTATIC PRESSURE			(A)	1616	
INITIAL FLOW PERIOD	MIN:	60	(B)	40	PSI TO (C) : 115
INITIAL CLOSED IN PERIOD	MIN:	60	(D)	1085	
FINAL FLOW PERIOD	MIN:	60	(E)	140	PSI TO (F) : 157
FINAL CLOSED IN PERIOD	MIN:	63	(G)	1035	
FINAL HYDROSTATIC PRESSURE			(H)	1593	

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : PAN-WESTERN PETROLEUM INC.
RIG : COWLEY-KANSAS
FIELD : DRAKE
WELL : 1
DATE : 8/18/91
GAUGE NO : 10270

OPERATIONAL COMMENTS

CHLORIDES 26000 PPM

COMPANY : PAN-WESTERN PETROLEUM INC.
WELL : 1
GAUGE # : 10270
DATE : 18/ 8/91

FIELD : DRAKE
JOB # : 17347
DEPTH : 3252
TEST :

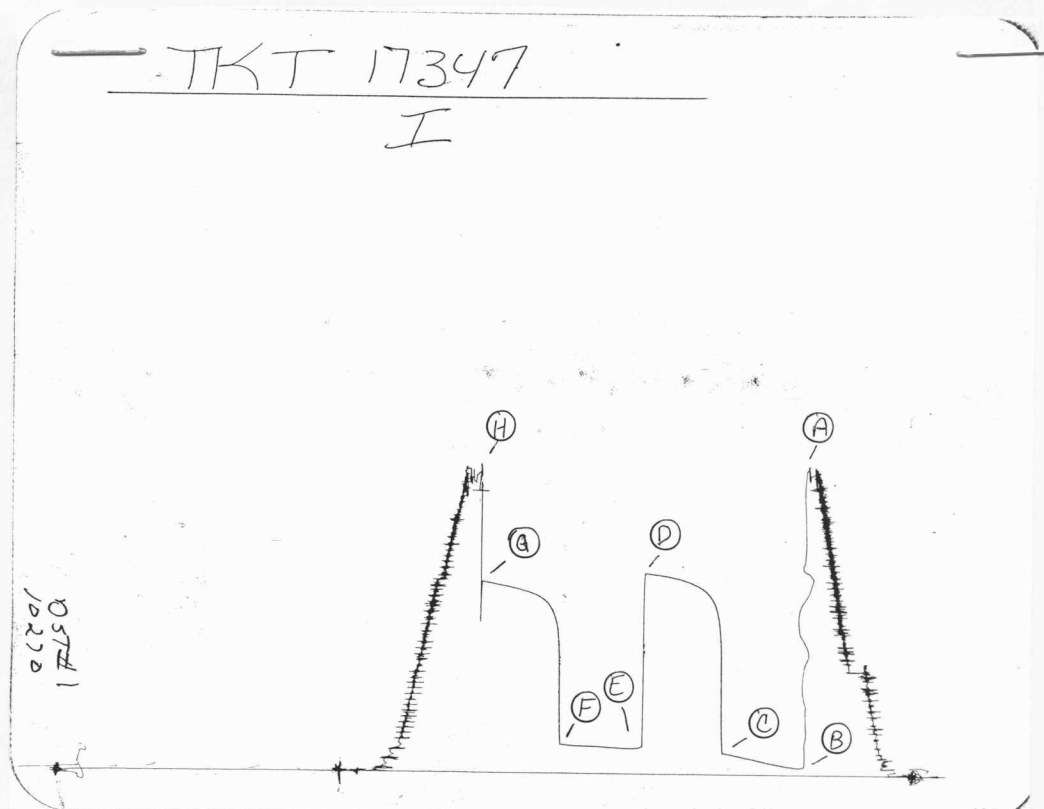
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	7:45: 0	0.000	40.000	125.00	0.000
3	7:49:59	0.083	40.000	125.00	0.000
4	7:55: 0	0.167	44.000	125.00	4.000
5	8: 0: 0	0.250	50.000	125.00	6.000
6	8: 4:59	0.333	56.000	125.00	6.000
7	8:10: 0	0.417	63.000	125.00	7.000
8	8:15: 0	0.500	70.000	125.00	7.000
9	8:19:59	0.583	79.000	125.00	9.000
10	8:25: 0	0.667	86.000	125.00	7.000
11	8:30: 0	0.750	93.000	125.00	7.000
12	8:34:59	0.833	103.000	125.00	10.000
13	8:40: 0	0.917	109.000	125.00	6.000
14	8:45: 0	1.000	115.000	125.00	6.000
INITIAL SHUT-IN PERIOD					
15	8:48: 0	1.050	682.000	125.00	567.000
16	8:51: 0	1.100	869.000	125.00	187.000
17	8:54: 0	1.150	932.000	125.00	63.000
18	8:57: 0	1.200	965.000	125.00	33.000
19	9: 0: 0	1.250	988.000	125.00	23.000
20	9: 3: 0	1.300	1004.000	125.00	16.000
21	9: 6: 0	1.350	1017.000	125.00	13.000
22	9: 9: 0	1.400	1027.000	125.00	10.000
23	9:12: 0	1.450	1036.000	125.00	9.000
24	9:15: 0	1.500	1043.000	125.00	7.000
25	9:18: 0	1.550	1049.000	125.00	6.000
26	9:21: 0	1.600	1057.000	125.00	8.000
27	9:24: 0	1.650	1062.000	125.00	5.000
28	9:27: 0	1.700	1066.000	125.00	4.000
29	9:30: 0	1.750	1071.000	125.00	5.000
30	9:33: 0	1.800	1074.000	125.00	3.000
31	9:36: 0	1.850	1077.000	125.00	3.000
32	9:39: 0	1.900	1079.000	125.00	2.000
33	9:42: 0	1.950	1083.000	125.00	4.000
34	9:45: 0	2.000	1085.000	125.00	2.000
FINAL FLOW PERIOD					
35	9:46: 0	2.017	140.000	125.00	-945.000
36	9:49:59	2.083	140.000	125.00	0.000
37	9:55: 0	2.167	140.000	125.00	0.000
38	10: 0: 0	2.250	140.000	125.00	0.000
39	10: 4:59	2.333	140.000	125.00	0.000
40	10:10: 0	2.417	144.000	125.00	4.000
41	10:15: 0	2.500	146.000	125.00	2.000
42	10:19:59	2.583	148.000	125.00	2.000
43	10:25: 0	2.667	150.000	125.00	2.000
44	10:30: 0	2.750	152.000	125.00	2.000
45	10:34:59	2.833	153.000	125.00	1.000
46	10:40: 0	2.917	155.000	125.00	2.000
47	10:45: 0	3.000	157.000	125.00	2.000
FINAL SHUT-IN PERIOD					
48	10:48: 0	3.050	662.000	125.00	505.000

COMPANY : PAN-WESTERN PETROLEUM INC.
WELL : 1
GAUGE # : 10270
DATE : 18/ 8/91

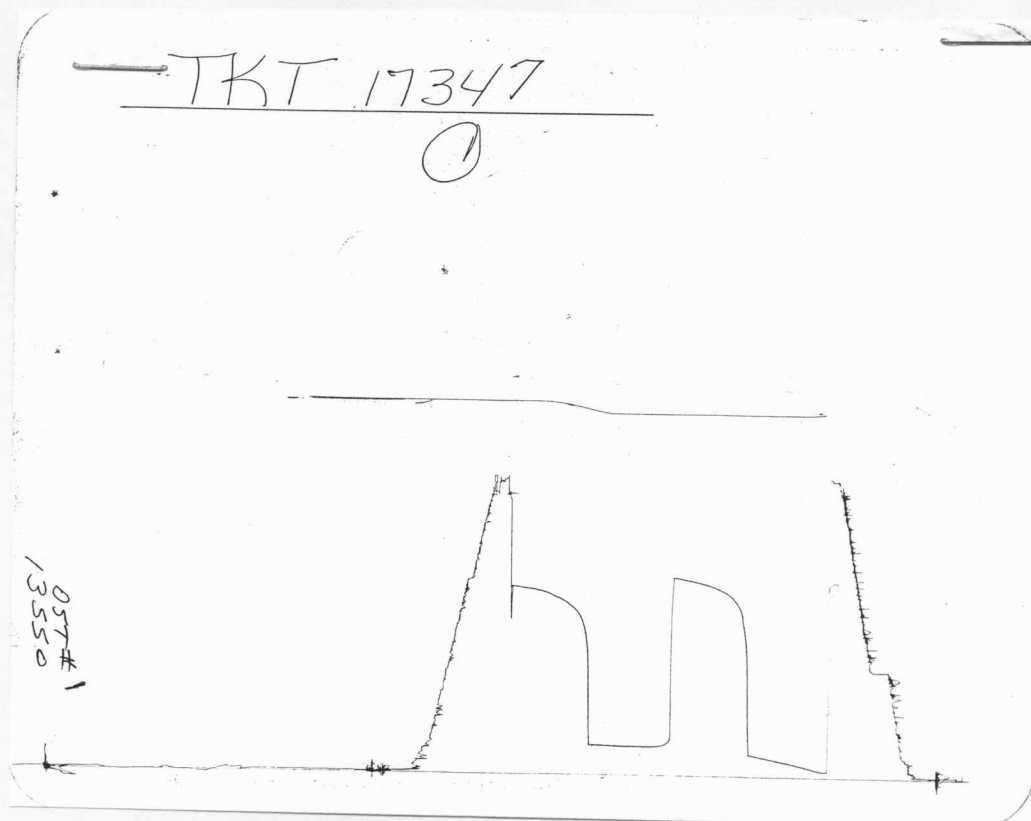
FIELD : DRAKE
JOB # : 17347
DEPTH : 3252
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	10:51: 0	3.100	837.000	125.00	175.000
50	10:54: 0	3.150	888.000	125.00	51.000
51	10:57: 0	3.200	920.000	125.00	32.000
52	11: 0: 0	3.250	940.000	125.00	20.000
53	11: 3: 0	3.300	954.000	125.00	14.000
54	11: 6: 0	3.350	965.000	125.00	11.000
55	11: 9: 0	3.400	975.000	125.00	10.000
56	11:12: 0	3.450	981.000	125.00	6.000
57	11:15: 0	3.500	988.000	125.00	7.000
58	11:18: 0	3.550	994.000	125.00	6.000
59	11:21: 0	3.600	998.000	125.00	4.000
60	11:24: 0	3.650	1004.000	125.00	6.000
61	11:27: 0	3.700	1009.000	125.00	5.000
62	11:30: 0	3.750	1013.000	125.00	4.000
63	11:33: 0	3.800	1017.000	125.00	4.000
64	11:36: 0	3.850	1022.000	125.00	5.000
65	11:39: 0	3.900	1024.000	125.00	2.000
66	11:42: 0	3.950	1030.000	125.00	6.000
67	11:45: 0	4.000	1034.000	125.00	4.000
68	11:48: 0	4.050	1035.000	125.00	1.000

WESTERN TESTING CO. INC.



Inside Recorder



Outside Recorder