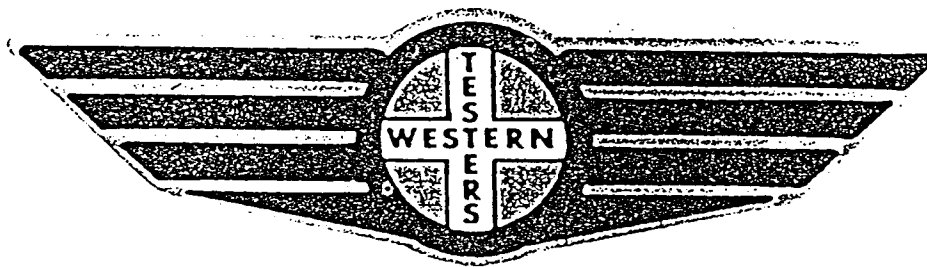


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY DEUTSCH OIL COMPANY

LEASE & WELL NO. FISHER #1-18

SEC. 18 TWP. 26S RGE. 11W TEST NO. 1 DATE 10/8/90

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	10-8-90	TICKET	:	16114
CUSTOMER	:	DEUTSCH OIL COMPANY	LEASE	:	FISHER
WELL	:	#1-18 TEST: 1	GEOLOGIST	:	DEUTSCH
ELEVATION	:	1869 K.B.	FORMATION	:	MISSISSIPPI
SECTION	:	18	TOWNSHIP	:	26S
RANGE	:	11W	STATE	:	KANSAS
GAUGE SN#	:	1051	CLOCK	:	12
		COUNTY :	PRATT		
		RANGE :	4250		

INTERVAL FROM	:	4057	TO	:	4090	TOTAL DEPTH	:	4090
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4052	SIZE	:	6.63			
PACKER DEPTH	:	4057	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	DUKE DRILLING RIG #2			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	45
WEIGHT	:	9.0	WATER LOSS (CC)	:	10.8
CHLORIDES (PPM)	:	11000			
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	:	256	FT	I.D. inch	:	2.25
DRILL PIPE LENGTH	:	3773	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	28	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	33	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 BLOW BUILDING
BLOW COMMENT #2	:	TO A GOOD 6 INCH BLOW.
BLOW COMMENT #3	:	FINAL FLOW PERIOD FAIR BLOW. 4 TO 5 INCHES
BLOW COMMENT #4	:	IN WATER.

RECOVERED : 20 FT OF: GAS & OIL-CUT MUD
RECOVERED : 0 FT OF: 5%GAS 5%OIL 90%MUD

Total Barrels Fluid = 0.10
Total Fluid Prod Rate = 1.57 BFPD
Indicated Oil Rate = 0.08 BOPD
Indicated Wtr Rate = 0.14 BWPD

REMARK 1 :
REMARK 2 : 360 FT. GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) :	11:20 P.M.	TIME STARTED OFF BOTTOM :	3:50 A.M.
WELL TEMPERATURE :	118		
INITIAL HYDROSTATIC PRESSURE		(A)	2037
INITIAL FLOW PERIOD MIN:	30	(B)	86 PSI TO (C) : 86
INITIAL CLOSED IN PERIOD MIN:	60	(D)	86
FINAL FLOW PERIOD MIN:	60	(E)	86 PSI TO (F) : 86
FINAL CLOSED IN PERIOD MIN:	120	(G)	86
FINAL HYDROSTATIC PRESSURE		(H)	1991

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : DEUTSCH OIL COMPANY
RIG : PRATT-KANSAS
FIELD : FISHER
WELL : #1-18
DATE : 10-8-90
GAUGE NO : 1051

OPERATIONAL COMMENTS

360 FT. GAS ABOVE FLUID.

COMPANY : DEUTSCH OIL COMPANY
WELL : #1-18
GAUGE # : 1051
DATE : 8/10/90

FIELD : FISHER
JOB # : 16114
DEPTH : 4090
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	11:20: 0	0.000	86.000	118.00	0.000
3	11:24:59	0.083	86.000	118.00	0.000
4	11:30: 0	0.167	86.000	118.00	0.000
5	11:35: 0	0.250	86.000	118.00	0.000
6	11:39:59	0.333	86.000	118.00	0.000
7	11:45: 0	0.417	86.000	118.00	0.000
8	11:50: 0	0.500	86.000	118.00	0.000
INITIAL SHUT-IN PERIOD					
9	11:53: 0	0.550	86.000	118.00	0.000
10	11:56: 0	0.600	86.000	118.00	0.000
11	11:59: 0	0.650	86.000	118.00	0.000
12	12: 2: 0	0.700	86.000	118.00	0.000
13	12: 5: 0	0.750	86.000	118.00	0.000
14	12: 8: 0	0.800	86.000	118.00	0.000
15	12:11: 0	0.850	86.000	118.00	0.000
16	12:14: 0	0.900	86.000	118.00	0.000
17	12:17: 0	0.950	86.000	118.00	0.000
18	12:20: 0	1.000	86.000	118.00	0.000
19	12:23: 0	1.050	86.000	118.00	0.000
20	12:26: 0	1.100	86.000	118.00	0.000
21	12:29: 0	1.150	86.000	118.00	0.000
22	12:32: 0	1.200	86.000	118.00	0.000
23	12:35: 0	1.250	86.000	118.00	0.000
24	12:38: 0	1.300	86.000	118.00	0.000
25	12:41: 0	1.350	86.000	118.00	0.000
26	12:44: 0	1.400	86.000	118.00	0.000
27	12:47: 0	1.450	86.000	118.00	0.000
28	12:50: 0	1.500	86.000	118.00	0.000
FINAL FLOW PERIOD					
29	12:51: 0	1.517	86.000	118.00	0.000
30	12:54:59	1.583	86.000	118.00	0.000
31	13: 0: 0	1.667	86.000	118.00	0.000
32	13: 5: 0	1.750	86.000	118.00	0.000
33	13: 9:59	1.833	86.000	118.00	0.000
34	13:15: 0	1.917	86.000	118.00	0.000
35	13:20: 0	2.000	86.000	118.00	0.000
36	13:24:59	2.083	86.000	118.00	0.000
37	13:30: 0	2.167	86.000	118.00	0.000
38	13:35: 0	2.250	86.000	118.00	0.000
39	13:39:59	2.333	86.000	118.00	0.000
40	13:45: 0	2.417	86.000	118.00	0.000
41	13:50: 0	2.500	86.000	118.00	0.000
FINAL SHUT-IN PERIOD					
42	13:53: 0	2.550	86.000	118.00	0.000
43	13:56: 0	2.600	86.000	118.00	0.000
44	13:59: 0	2.650	86.000	118.00	0.000
45	14: 2: 0	2.700	86.000	118.00	0.000
46	14: 5: 0	2.750	86.000	118.00	0.000
47	14: 8: 0	2.800	86.000	118.00	0.000
48	14:11: 0	2.850	86.000	118.00	0.000

COMPANY : DEUTSCH OIL COMPANY
WELL : #1-18
GAUGE # : 1051
DATE : 8/10/90

FIELD : FISHER
JOB # : 16114
DEPTH : 4090
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	14:14: 0	2.900	86.000	118.00	0.000
50	14:17: 0	2.950	86.000	118.00	0.000
51	14:20: 0	3.000	86.000	118.00	0.000
52	14:23: 0	3.050	86.000	118.00	0.000
53	14:26: 0	3.100	86.000	118.00	0.000
54	14:29: 0	3.150	86.000	118.00	0.000
55	14:32: 0	3.200	86.000	118.00	0.000
56	14:35: 0	3.250	86.000	118.00	0.000
57	14:38: 0	3.300	86.000	118.00	0.000
58	14:41: 0	3.350	86.000	118.00	0.000
59	14:44: 0	3.400	86.000	118.00	0.000
60	14:47: 0	3.450	86.000	118.00	0.000
61	14:50: 0	3.500	86.000	118.00	0.000
62	14:53: 0	3.550	86.000	118.00	0.000
63	14:56: 0	3.600	86.000	118.00	0.000
64	14:59: 0	3.650	86.000	118.00	0.000
65	15: 2: 0	3.700	86.000	118.00	0.000
66	15: 5: 0	3.750	86.000	118.00	0.000
67	15: 8: 0	3.800	86.000	118.00	0.000
68	15:11: 0	3.850	86.000	118.00	0.000
69	15:14: 0	3.900	86.000	118.00	0.000
70	15:17: 0	3.950	86.000	118.00	0.000
71	15:20: 0	4.000	86.000	118.00	0.000
72	15:23: 0	4.050	86.000	118.00	0.000
73	15:26: 0	4.100	86.000	118.00	0.000
74	15:29: 0	4.150	86.000	118.00	0.000
75	15:32: 0	4.200	86.000	118.00	0.000
76	15:35: 0	4.250	86.000	118.00	0.000
77	15:38: 0	4.300	86.000	118.00	0.000
78	15:41: 0	4.350	86.000	118.00	0.000
79	15:44: 0	4.400	86.000	118.00	0.000
80	15:47: 0	4.450	86.000	118.00	0.000
81	15:50: 0	4.500	86.000	118.00	0.000

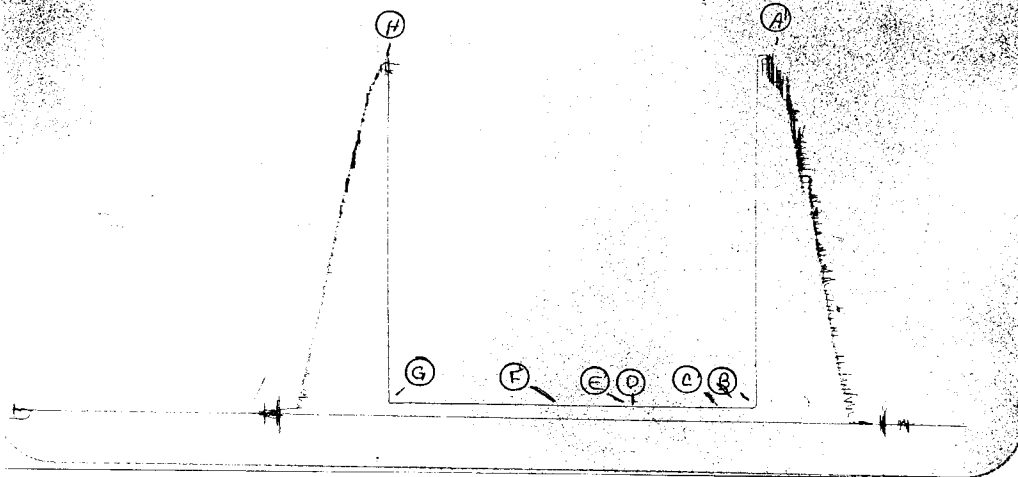
WESTERN TESTING CO. INC.

1051 DST# 1

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TKT 16114

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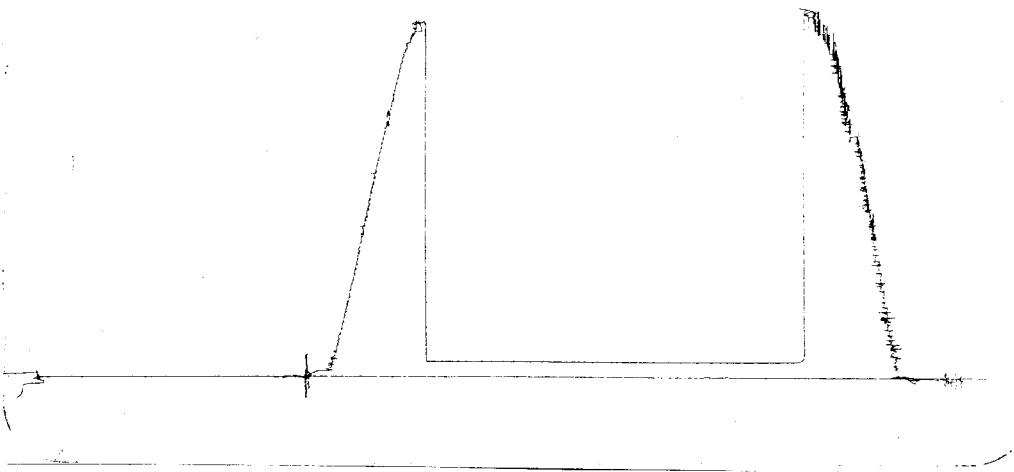


Inside Recorder

4332 DST# 1

TKT 16114

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Outside Recorder