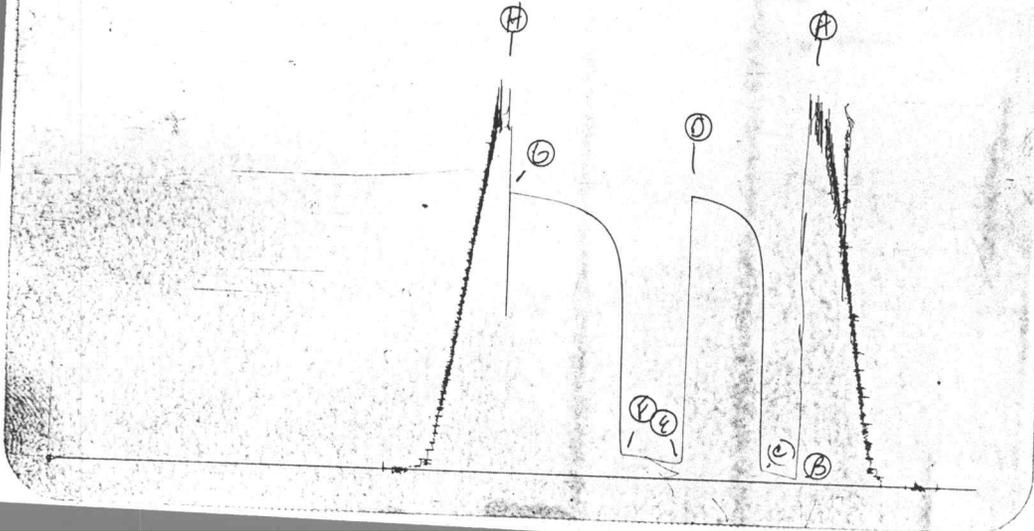


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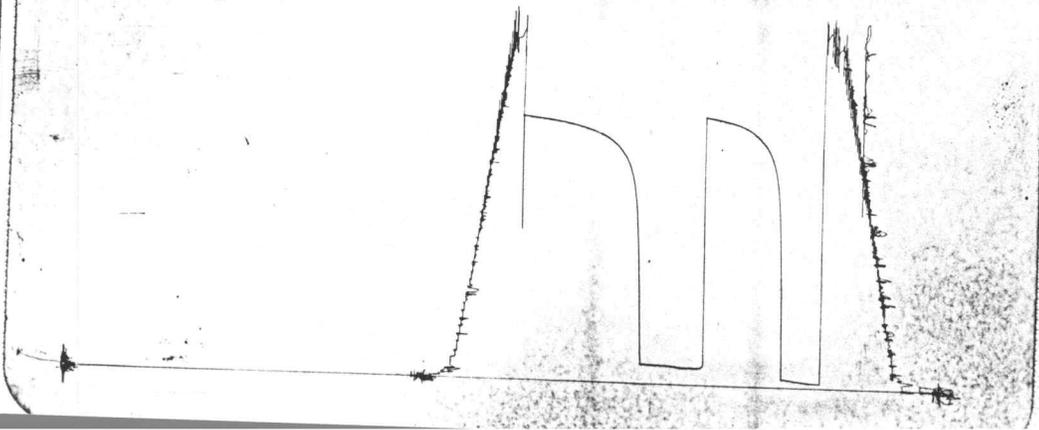
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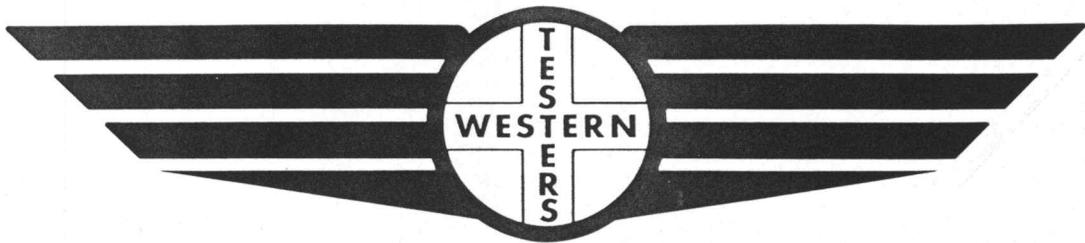
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# FORMATION TEST REPORT



Home Office:

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COMPANY MURFIN DRILLING CO., INC. LEASE & WELL NO. #1-17 STUHLSATZ SEC. 17 TWP. 30S RGE. 3W TEST NO. 1 DATE 1-28-86

SUBSURFACE PRESSURE SURVEY

DATE : 1-28-86 TICKET : 8764  
 CUSTOMER : MURFIN DRILLING COMPANY LEASE : STUHLSATZ  
 WELL : 1-17 TEST: 1 GEOLOGIST : DIXON  
 ELEVATION : 1363 FORMATION : MISSISSIPPI  
 SECTION : 17 TOWNSHIP : 30S  
 RANGE : 3W COUNTY : SUMNER STATE : KANSAS  
 GAUGE SN# : 13402 RANGE : 4025 CLOCK : 12

INTERVAL FROM : 3884 TO : 3902 TOTAL DEPTH : 3902  
 DEPTH OF SELECTIVE ZONE :  
 PACKER DEPTH : 3879 SIZE : 6.75  
 PACKER DEPTH : 3884 SIZE : 6.75  
 PACKER DEPTH : SIZE :  
 PACKER DEPTH : SIZE :

DRILLING CON. : BRANDT DRLG  
 MUD TYPE : CHEMICAL VISCOSITY : 48  
 WEIGHT : 9.2 WATER LOSS (CC) : 9.8  
 CHLORIDES (PPM) : 8000  
 JARS-MAKE : SERIAL NUMBER :  
 DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 180 FT I.D. inch : 2.25  
 WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
 DRILL PIPE LENGTH : 3682 FT I.D. inch : 3.80  
 TEST TOOL LENGTH : 22 FT TOOL SIZE : 5.50  
 ANCHOR LENGTH : 18 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 : WEAK BLOW THROUGHOUT TEST.  
 BLOW COMMENT #2 :  
 BLOW COMMENT #3 :  
 BLOW COMMENT #4 :

RECOVERED : 120 FT OF: WATERY MUD. 0.75 Barrels  
 RECOVERED : 0 FT OF: (WITH FEW OIL SPECKS). 0.00 Barrels  
 RECOVERED : 90 FT OF: WATER. 0.56 Barrels  
 RECOVERED : 0 FT OF: CHLORIDES 45000 PPM. 0.00 Barrels  
 RECOVERED : 0 FT OF: 0.00 Barrels  
 Total Barrels = 1.3 Total Production = 26.9 Bpd

REMARK 1 :  
 REMARK 2 :  
 REMARK 3 :  
 REMARK 4 :

SET PACKER(S) : 10:25 AM TIME STARTED OFF BOTTOM : 2:10 PM  
 WELL TEMPERATURE : 110  
 INITIAL HYDROSTATIC PRESSURE (A) 1905  
 INITIAL FLOW PERIOD MIN: 25 (B) 23 PSI TO (C) : 55  
 INITIAL CLOSED IN PERIOD MIN: 60 (D) 1474  
 FINAL FLOW PERIOD MIN: 45 (E) 81 PSI TO (F) : 114  
 FINAL CLOSED IN PERIOD MIN: 90 (G) 1458  
 FINAL HYDROSTATIC PRESSURE (H) 1860



COMPANY : MURFIN DRILLING COMPANY FIELD : STUHLSATZ  
 WELL : 1-17 JOB # : 8764  
 GAUGE # : 13402 DEPTH : 3902  
 MON/DAY : 1/28

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REC#	REAL TIME HR:MIN:SEC	ELAPSE TIME		PRESSURE PSIG	TEMP DEG F	DELTA P (Po-Pi)	DP/DT Psi/hr
		MINS	HOURS				
1	10:25: 0	0	0.000	23.00	110.0	0.00	239.77
2	10:30: 0	5	0.083	28.00	110.0	5.00	60.01
3	10:35: 0	10	0.167	35.00	110.0	12.00	84.02
4	10:40: 0	15	0.250	41.00	110.0	18.00	71.96
5	10:45: 0	20	0.333	51.00	110.0	28.00	120.03
6	10:50: 0	25	0.417	55.00	110.0	32.00	48.01
7	10:53: 0	28	0.467	706.00	110.0	683.00	13007.30
8	10:56: 0	31	0.517	1126.00	110.0	1103.00	8402.05
9	10:59: 0	34	0.567	1229.00	110.0	1206.00	2060.50
10	11: 2: 0	37	0.617	1287.00	110.0	1264.00	1160.28
11	11: 5: 0	40	0.667	1325.00	110.0	1302.00	760.19
12	11: 8: 0	43	0.717	1353.00	110.0	1330.00	559.45
13	11:11: 0	46	0.767	1371.00	110.0	1348.00	360.09
14	11:14: 0	49	0.817	1390.00	110.0	1367.00	380.09
15	11:17: 0	52	0.867	1404.00	110.0	1381.00	280.07
16	11:20: 0	55	0.917	1414.00	110.0	1391.00	200.05
17	11:23: 0	58	0.967	1424.00	110.0	1401.00	199.80
18	11:26: 0	61	1.017	1434.00	110.0	1411.00	200.05
19	11:29: 0	64	1.067	1442.00	110.0	1419.00	160.04
20	11:32: 0	67	1.117	1450.00	110.0	1427.00	160.04
21	11:35: 0	70	1.167	1455.00	110.0	1432.00	100.02
22	11:38: 0	73	1.217	1460.00	110.0	1437.00	99.90
23	11:41: 0	76	1.267	1465.00	110.0	1442.00	100.02
24	11:44: 0	79	1.317	1470.00	110.0	1447.00	100.02
25	11:47: 0	82	1.367	1472.00	110.0	1449.00	40.01
26	11:50: 0	85	1.417	1474.00	110.0	1451.00	40.01
27	11:51: 0	86	1.433	81.00	110.0	58.00	-83600.41
28	11:55: 0	90	1.500	81.00	110.0	58.00	0.00
29	12: 0: 0	95	1.583	81.00	110.0	58.00	0.00
30	12: 5: 0	100	1.667	86.00	110.0	63.00	60.01
31	12:10: 0	105	1.750	93.00	110.0	70.00	83.96
32	12:15: 0	110	1.833	101.00	110.0	78.00	96.02
33	12:20: 0	115	1.917	106.00	110.0	83.00	60.01
34	12:25: 0	120	2.000	108.00	110.0	85.00	23.99
35	12:30: 0	125	2.083	111.00	110.0	88.00	36.01
36	12:35: 0	130	2.167	114.00	110.0	91.00	36.01
37	12:38: 0	133	2.217	749.00	110.0	726.00	12687.61
38	12:41: 0	136	2.267	1076.00	110.0	1053.00	6541.60
39	12:44: 0	139	2.317	1173.00	110.0	1150.00	1940.47
40	12:47: 0	142	2.367	1225.00	110.0	1202.00	1040.25
41	12:50: 0	145	2.417	1261.00	110.0	1238.00	720.18
42	12:53: 0	148	2.467	1290.00	110.0	1267.00	579.43
43	12:56: 0	151	2.517	1313.00	110.0	1290.00	460.11
44	12:59: 0	154	2.567	1331.00	110.0	1308.00	360.09
45	13: 2: 0	157	2.617	1345.00	110.0	1322.00	280.07
46	13: 5: 0	160	2.667	1360.00	110.0	1337.00	300.07
47	13: 8: 0	163	2.717	1369.00	110.0	1346.00	179.82
48	13:11: 0	166	2.767	1378.00	110.0	1355.00	180.04
49	13:14: 0	169	2.817	1387.00	110.0	1364.00	180.04

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REC#	REAL TIME HR:MIN:SEC	ELAPSE TIME		PRESSURE PSIG	TEMP DEG F	DELTA P (Po-Pi)	DP/DT Psi/hr
		MINS	HOURS				
50	13:17: 0	172	2.867	1396.00	110.0	1373.00	180.04
51	13:20: 0	175	2.917	1403.00	110.0	1380.00	140.03
52	13:23: 0	178	2.967	1409.00	110.0	1386.00	119.88
53	13:26: 0	181	3.017	1415.00	110.0	1392.00	120.03
54	13:29: 0	184	3.067	1421.00	110.0	1398.00	120.03
55	13:32: 0	187	3.117	1426.00	110.0	1403.00	100.02
56	13:35: 0	190	3.167	1429.00	110.0	1406.00	60.01
57	13:38: 0	193	3.217	1432.00	110.0	1409.00	59.94
58	13:41: 0	196	3.267	1435.00	110.0	1412.00	60.01
59	13:44: 0	199	3.317	1438.00	110.0	1415.00	60.01
60	13:47: 0	202	3.367	1441.00	110.0	1418.00	60.01
61	13:50: 0	205	3.417	1444.00	110.0	1421.00	60.01
62	13:53: 0	208	3.467	1447.00	110.0	1424.00	59.94
63	13:56: 0	211	3.517	1450.00	110.0	1427.00	60.01
64	13:59: 0	214	3.567	1453.00	110.0	1430.00	60.01
65	14: 2: 0	217	3.617	1456.00	110.0	1433.00	60.01
66	14: 5: 0	220	3.667	1458.00	110.0	1435.00	40.01