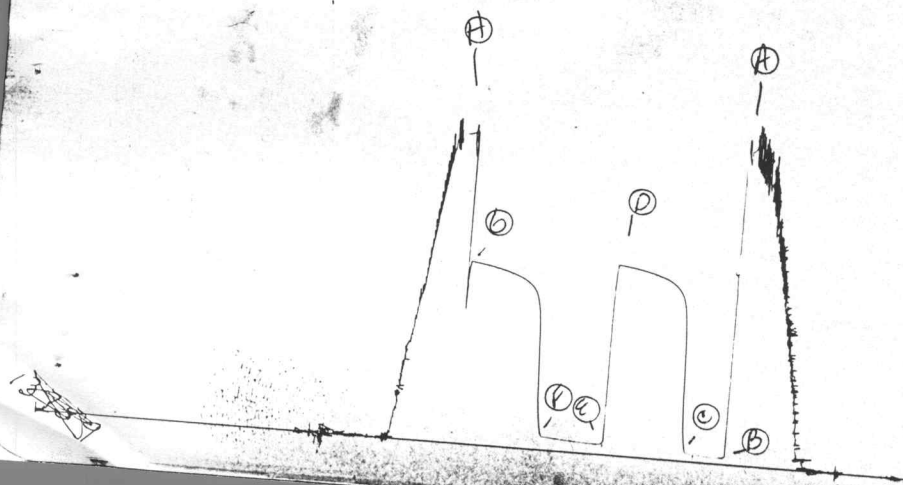


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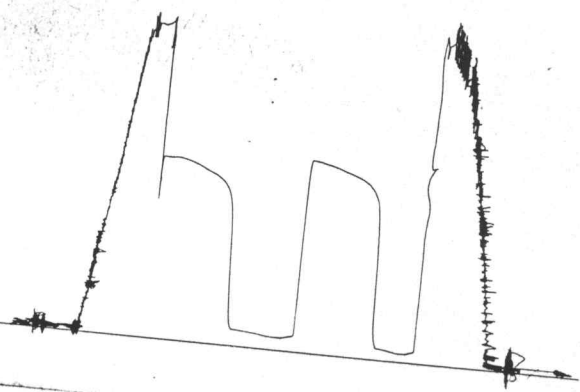
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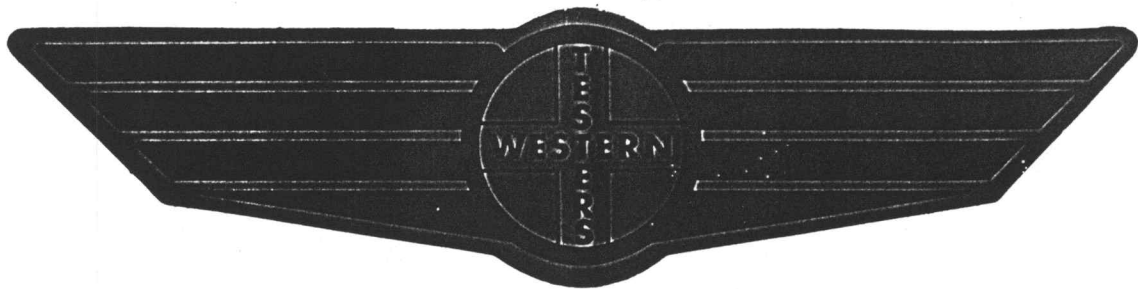
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

MURFIN DRILLING COMPANY

LEASE & WELL NO.

#4 SCHREPEL A

SEC. 19

TWP. 18S

RGE. 11W

TEST NO. 1

DATE

11/22/86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE	: 11-22-86	TICKET	: 12276
CUSTOMER	: MURFIN DRILLING CO.	LEASE	: SCHREPEL A
WELL	: #4 TEST: 1	GEOLOGIST	: R. WELTY
ELEVATION	: 1802 KB	FORMATION	: KANSAS CITY
SECTION	: 19	TOWNSHIP	: 18S
RANGE	: 11W	STATE	: KANSAS
GAUGE SN#	: 4376	CLOCK	: 12
COUNTY	: BARTON		
RANGE	: 4000		

INTERVAL FROM	: 3108	TO	: 3158	TOTAL DEPTH	: 3158
DEPTH OF SELECTIVE ZONE	:				
PACKER DEPTH	: 3103	SIZE	: 6.63		
PACKER DEPTH	: 3108	SIZE	: 6.63		
PACKER DEPTH	:	SIZE	:		
PACKER DEPTH	:	SIZE	:		

DRILLING CON.	: WOODMAN-IANNITTI RIG #1		
MUD TYPE	: STARCH	VISCOSITY	: 42
WEIGHT	: 9.7	WATER LOSS (CC)	: 9.6
CHLORIDES (PPM)	: 85000		
JARS-MAKE	: -	SERIAL NUMBER	:
DID WELL FLOW ?	: NO	REVERSED OUT ?	: NO

DRILL COLLAR LENGTH	: 0	FT	I.D. inch	: 0.00
WEIGHT PIPE LENGTH	: 701	FT	I.D. inch	: 2.70
DRILL PIPE LENGTH	: 2387	FT	I.D. inch	: 3.80
TEST TOOL LENGTH	: 20	FT	TOOL SIZE	: 4.50
ANCHOR LENGTH	: 50	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-1/8" BLOW THROUGHOUT.
BLOW COMMENT #2	: FINAL FLOW-1/8" BLOW THROUGHOUT.
BLOW COMMENT #3	:
BLOW COMMENT #4	:

RECOVERED : 70 FT OF: THIN WATERY MUD.

Total Barrels Fluid = 0.50
Total Fluid Prod Rate = 9.52 BFPD
Indicated Wtr Rate = 8.57 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES: 93000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 2:00 AM

TIME STARTED OFF BOTTOM : 5:15 AM

WELL TEMPERATURE : 116

INITIAL HYDROSTATIC PRESSURE

(A) 1665

INITIAL FLOW PERIOD MIN: 30

(B) 36

PSI TO (C) : 44

INITIAL CLOSED IN PERIOD MIN: 63

(D) 1008

FINAL FLOW PERIOD MIN: 45

(E) 58

PSI TO (F) : 73

FINAL CLOSED IN PERIOD MIN: 63

(G) 967

FINAL HYDROSTATIC PRESSURE

(H) 1645

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MURFIN DRILLING CO.
RIG : BARTON-KANSAS
FIELD : SCHREPEL A
WELL : #4
DATE : 11-22-86
GAUGE NO : 4376

OPERATIONAL COMMENTS

CHLORIDES: 93000 PPM

COMPANY : MURFIN DRILLING CO.
WELL : #4
GAUGE # : 4376
DATE : 22/11/86

FIELD : SCHREPEL A
JOB # : 12276
DEPTH : 3158
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2: 0: 0	0.000	36.000	46.67	0.000
2	2: 4: 60	0.083	36.000	46.67	0.000
3	2:10: 1	0.167	36.000	46.67	0.000
4	2:15: 0	0.250	38.000	46.67	2.000
5	2:19: 60	0.333	41.000	46.67	3.000
6	2:25: 1	0.417	43.000	46.67	2.000
7	2:30: 0	0.500	44.000	46.67	1.000
8	2:33: 0	0.550	173.000	46.67	129.000
9	2:36: 0	0.600	495.000	46.67	322.000
10	2:39: 0	0.650	744.000	46.67	249.000
11	2:42: 0	0.700	854.000	46.67	110.000
12	2:45: 0	0.750	892.000	46.67	38.000
13	2:48: 0	0.800	916.000	46.67	24.000
14	2:51: 0	0.850	932.000	46.67	16.000
15	2:54: 0	0.900	945.000	46.67	13.000
16	2:57: 0	0.950	955.000	46.67	10.000
17	3: 0: 0	1.000	962.000	46.67	7.000
18	3: 2: 60	1.050	969.000	46.67	7.000
19	3: 6: 0	1.100	975.000	46.67	6.000
20	3: 9: 0	1.150	981.000	46.67	6.000
21	3:12: 0	1.200	985.000	46.67	4.000
22	3:15: 0	1.250	989.000	46.67	4.000
23	3:18: 0	1.300	993.000	46.67	4.000
24	3:21: 0	1.350	997.000	46.67	4.000
25	3:24: 0	1.400	1001.000	46.67	4.000
26	3:27: 0	1.450	1003.000	46.67	2.000
27	3:30: 0	1.500	1005.000	46.67	2.000
28	3:33: 0	1.550	1008.000	46.67	3.000
29	3:34: 1	1.567	58.000	46.67	-950.000
30	3:37: 60	1.633	58.000	46.67	0.000
31	3:43: 1	1.717	58.000	46.67	0.000
32	3:48: 0	1.800	60.000	46.67	2.000
33	3:52: 60	1.883	62.000	46.67	2.000
34	3:58: 1	1.967	64.000	46.67	2.000
35	4: 3: 0	2.050	66.000	46.67	2.000
36	4: 7: 60	2.133	68.000	46.67	2.000
37	4:13: 1	2.217	71.000	46.67	3.000
38	4:18: 0	2.300	73.000	46.67	2.000
39	4:21: 0	2.350	160.000	46.67	87.000
40	4:24: 0	2.400	379.000	46.67	219.000
41	4:27: 0	2.450	622.000	46.67	243.000
42	4:30: 0	2.500	784.000	46.67	162.000
43	4:33: 0	2.550	838.000	46.67	54.000
44	4:36: 0	2.600	864.000	46.67	26.000
45	4:39: 0	2.650	881.000	46.67	17.000
46	4:42: 0	2.700	895.000	46.67	14.000
47	4:45: 0	2.750	905.000	46.67	10.000
48	4:48: 0	2.800	913.000	46.67	8.000
49	4:51: 0	2.850	921.000	46.67	8.000
50	4:54: 0	2.900	927.000	46.67	6.000
51	4:57: 0	2.950	934.000	46.67	7.000
52	5: 0: 0	3.000	939.000	46.67	5.000

COMPANY : MURFIN DRILLING CO.
WELL : #4
GAUGE # : 4376
DATE : 22/11/86

FIELD : SCHREPEL A
JOB # : 12276
DEPTH : 3158
TEST :

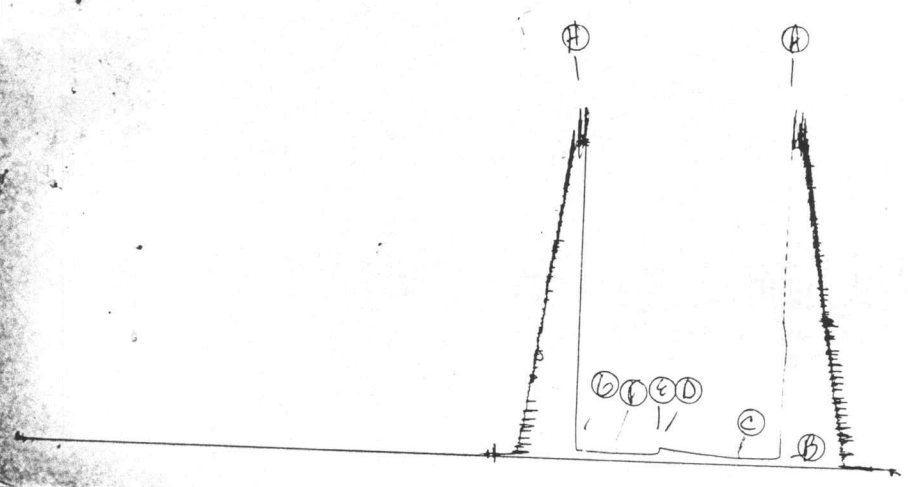
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	5: 3: 0	3.050	943.000	46.67	4.000
54	5: 6: 0	3.100	949.000	46.67	6.000
55	5: 9: 0	3.150	953.000	46.67	4.000
56	5:12: 0	3.200	958.000	46.67	5.000
57	5:15: 0	3.250	961.000	46.67	3.000
58	5:18: 0	3.300	963.000	46.67	2.000
59	5:21: 0	3.350	967.000	46.67	4.000

WESTERN TESTERS INC.

4372

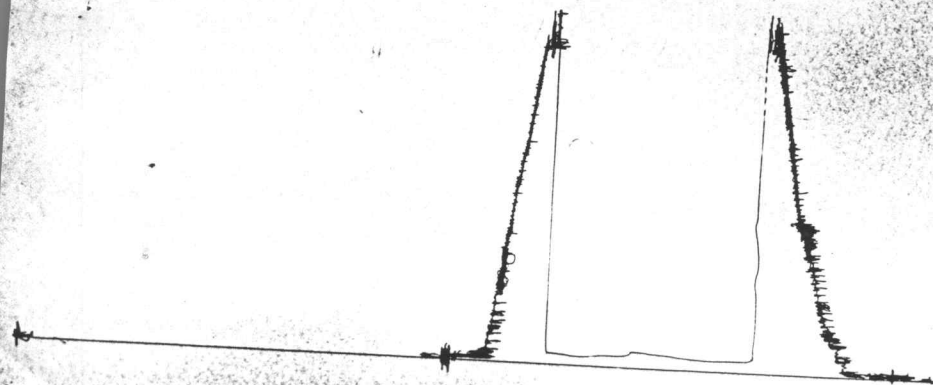
Sketch # 12277

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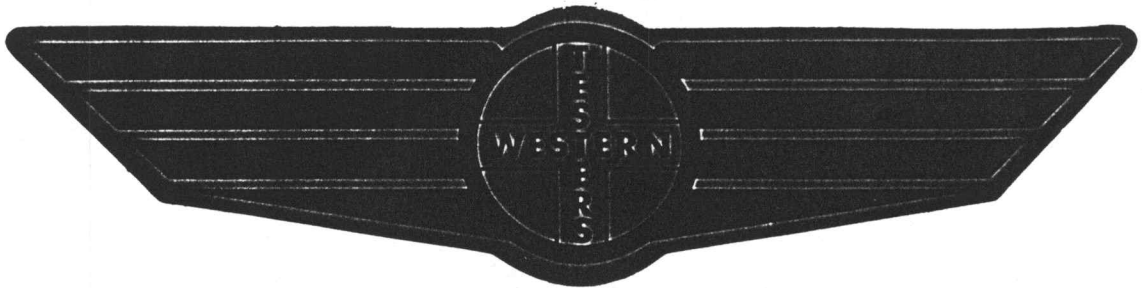


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Sk #12277
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MURFIN DRILLING COMPANY LEASE & WELL NO. #4 SCHREPEL A SEC. 19 TWP. 18 SRGE. 11W TEST NO. 2 DATE 11/22/86

WESTERN TESTERS INC.
SUBSURFACE PRESSURE SURVEY

DATE : 11-22-86
CUSTOMER : MURFIN DRILLING CO.
WELL : #4 TEST: 2
ELEVATION : 1802 KB
SECTION : 19
RANGE : 11W COUNTY : BARTON
GAUGE SN# : 4376 RANGE : 4000
TICKET : 12277
LEASE : SCHREPEL A
GEOLOGIST : R. WELTY
FORMATION : KANSAS CITY
TOWNSHIP : 18S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3223 TO : 3245 TOTAL DEPTH : 3245
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3218 SIZE : 6.63
PACKER DEPTH : 3223 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : WOODMAN-IANNITTI RIG #1
MUD TYPE : STARCH VISCOSITY : 47
WEIGHT : 9.7 WATER LOSS (CC) : 8.4
CHLORIDES (PPM) : 77000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 733 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2470 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 4.75
ANCHOR LENGTH : 22 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 BLOW DIED IN 25 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW DIED IN 27 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 30 FT OF: DRILLING MUD- NO SHOW

Total Barrels Fluid = 0.21
Total Fluid Prod Rate = 5.10 BFPD
Indicated Wtr Rate = 4.59 BWPD

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

SET PACKER(S) : 5:30 PM

TIME STARTED OFF BOTTOM : 8:00 PM

WELL TEMPERATURE : 116

INITIAL HYDROSTATIC PRESSURE

(A) 1738

INITIAL FLOW PERIOD MIN: 30

(B) 41 PSI TO (C) : 41

INITIAL CLOSED IN PERIOD MIN: 60

(D) 79

FINAL FLOW PERIOD MIN: 30

(E) 45 PSI TO (F) : 45

FINAL CLOSED IN PERIOD MIN: 30

(G) 51

FINAL HYDROSTATIC PRESSURE

(H) 1688

WESTERN TESTERS INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MURFIN DRILLING CO.
RIG : BARTON-KANSAS
FIELD : SCHREPEL A
WELL : #4
DATE : 11-22-86
GAUGE NO : 4376

OPERATIONAL COMMENTS

COMPANY : MURFIN DRILLING CO.
WELL : #4
GAUGE # : 4376
DATE : 22/11/86

FIELD : SCHREPEL A
JOB # : 12277
DEPTH : 3245
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	5:30: 0	0.000	41.000	46.67	0.000
2	5:34:60	0.083	41.000	46.67	0.000
3	5:40: 1	0.167	41.000	46.67	0.000
4	5:45: 0	0.250	41.000	46.67	0.000
5	5:49:60	0.333	41.000	46.67	0.000
6	5:55: 1	0.417	41.000	46.67	0.000
7	6: 0: 0	0.500	41.000	46.67	0.000
8	6: 3: 0	0.550	41.000	46.67	0.000
9	6: 6: 0	0.600	41.000	46.67	0.000
10	6: 9: 0	0.650	44.000	46.67	3.000
11	6:12: 0	0.700	46.000	46.67	2.000
12	6:15: 0	0.750	48.000	46.67	2.000
13	6:18: 0	0.800	50.000	46.67	2.000
14	6:21: 0	0.850	52.000	46.67	2.000
15	6:24: 0	0.900	54.000	46.67	2.000
16	6:27: 0	0.950	56.000	46.67	2.000
17	6:30: 0	1.000	58.000	46.67	2.000
18	6:33: 0	1.050	60.000	46.67	2.000
19	6:36: 0	1.100	62.000	46.67	2.000
20	6:39: 0	1.150	64.000	46.67	2.000
21	6:42: 0	1.200	66.000	46.67	2.000
22	6:45: 0	1.250	68.000	46.67	2.000
23	6:48: 0	1.300	70.000	46.67	2.000
24	6:51: 0	1.350	72.000	46.67	2.000
25	6:54: 0	1.400	75.000	46.67	3.000
26	6:57: 0	1.450	77.000	46.67	2.000
27	7: 0: 0	1.500	79.000	46.67	2.000
28	7: 1: 1	1.517	45.000	46.67	-34.000
29	7: 4:60	1.583	45.000	46.67	0.000
30	7:10: 1	1.667	45.000	46.67	0.000
31	7:15: 0	1.750	45.000	46.67	0.000
32	7:19:60	1.833	45.000	46.67	0.000
33	7:25: 1	1.917	45.000	46.67	0.000
34	7:30: 0	2.000	45.000	46.67	0.000
35	7:33: 0	2.050	45.000	46.67	0.000
36	7:36: 0	2.100	45.000	46.67	0.000
37	7:39: 0	2.150	46.000	46.67	1.000
38	7:42: 0	2.200	47.000	46.67	1.000
39	7:45: 0	2.250	48.000	46.67	1.000
40	7:48: 0	2.300	49.000	46.67	1.000
41	7:51: 0	2.350	50.000	46.67	1.000
42	7:54: 0	2.400	51.000	46.67	1.000
43	7:57: 0	2.450	51.000	46.67	0.000
44	8: 0: 0	2.500	51.000	46.67	0.000

WESTERN TESTERS INC.