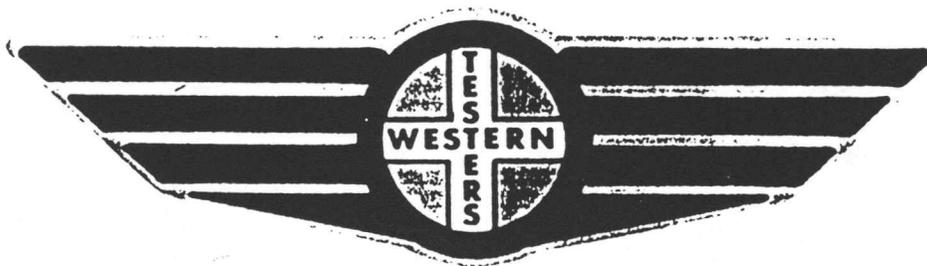


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY OKMAR OIL COMPANY

LEASE & WELL NO.

SMITH "A" #4

SEC. 14 TWP. 12S RGE. 16W TEST NO. 1

DATE 12-22-87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-22-87 TICKET : 12021
CUSTOMER : OKMAR OIL COMPANY LEASE : SMITH "A"
WELL : #4 TEST: 1 GEOLOGIST : P.S. HOUSTON
ELEVATION : 1828 GL FORMATION : TOPEKA
SECTION : 14 TOWNSHIP : 12S
RANGE : 16W COUNTY : ELLIS STATE : KANSAS
GAUGE SN# : 13759 RANGE : 3900 CLOCK : 12

INTERVAL FROM : 2738 TO : 2780 TOTAL DEPTH : 2780

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 2733 SIZE : 6.75
PACKER DEPTH : 2738 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BEREDCO
MUD TYPE : STARCH VISCOSITY : 45
WEIGHT : 9.7 WATER LOSS (CC) : 20
CHLORIDES (PPM) : -
JARS-MAKE : WTC SERIAL NUMBER : 414
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 795 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 1914 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 42 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-HALF INCH BLOW THROUGHOUT.
BLOW COMMENT #2 : FINAL FLOW-STEADY BLOW-1 INCH IN BUCKET.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 50 FT OF: HEAVY OIL CUT GASSY MUDDY WATER
60% MUD-10% WATER-10% OIL-20% GAS
RECOVERED : 140 FT OF: HEAVY OIL CUT GASSY MUDDY WATER
40% MUD-20% WATER-20% OIL-20% GAS

Total Barrels Fluid = 1.35
Total Fluid Prod Rate = 16.15 BFPD
Indicated Oil Rate = 2.80 BOPD
Indicated Wtr Rate = 3.57 BWPD

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

SET PACKER(S) : 3:40 AM TIME STARTED OFF BOTTOM : 7:40 AM
WELL TEMPERATURE : 100
INITIAL HYDROSTATIC PRESSURE (A) 1453
INITIAL FLOW PERIOD MIN: 60 (B) 109 PSI TO (C) : 109
INITIAL CLOSED IN PERIOD MIN: 54 (D) 845
FINAL FLOW PERIOD MIN: 60 (E) 158 PSI TO (F) : 136
FINAL CLOSED IN PERIOD MIN: 57 (G) 769
FINAL HYDROSTATIC PRESSURE (H) 1422

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : OKMAR OIL COMPANY
RIG : ELLIS-KANSAS
FIELD : SMITH "A"
WELL : #4
DATE : 12-22-87
GAUGE NO : 13759

OPERATIONAL COMMENTS

COMPANY : OKMAR OIL COMPANY
 WELL : #4
 GAUGE # : 13759
 DATE : 22/12/87

FIELD : SMITH "A"
 JOB # : 12021
 DEPTH : 2780
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P_{(i-1)}$
1	3:40:0	0.000	109.000	100.00	0.000
2	3:44:59	0.083	95.000	100.00	-14.000
3	3:50:0	0.167	90.000	100.00	-5.000
4	3:55:0	0.250	90.000	100.00	0.000
5	3:59:59	0.333	90.000	100.00	0.000
6	4:05:0	0.417	90.000	100.00	0.000
7	4:10:0	0.500	90.000	100.00	0.000
8	4:14:59	0.583	90.000	100.00	0.000
9	4:20:0	0.667	90.000	100.00	0.000
10	4:25:0	0.750	92.000	100.00	2.000
11	4:29:59	0.833	94.000	100.00	2.000
12	4:35:0	0.917	96.000	100.00	2.000
13	4:40:0	1.000	109.000	100.00	13.000
14	4:43:0	1.050	124.000	100.00	15.000
15	4:46:0	1.100	139.000	100.00	15.000
16	4:49:0	1.150	160.000	100.00	21.000
17	4:52:0	1.200	183.000	100.00	23.000
18	4:55:0	1.250	221.000	100.00	38.000
19	4:58:0	1.300	275.000	100.00	54.000
20	5:01:0	1.350	334.000	100.00	59.000
21	5:04:0	1.400	429.000	100.00	95.000
22	5:07:0	1.450	527.000	100.00	98.000
23	5:10:0	1.500	603.000	100.00	76.000
24	5:13:0	1.550	681.000	100.00	78.000
25	5:16:0	1.600	731.000	100.00	50.000
26	5:19:0	1.650	773.000	100.00	42.000
27	5:22:0	1.700	799.000	100.00	26.000
28	5:25:0	1.750	821.000	100.00	22.000
29	5:28:0	1.800	830.000	100.00	9.000
30	5:31:0	1.850	840.000	100.00	10.000
31	5:34:0	1.900	845.000	100.00	5.000
32	5:35:0	1.917	158.000	100.00	-687.000
33	5:38:59	1.983	143.000	100.00	-15.000
34	5:44:0	2.067	135.000	100.00	-8.000
35	5:49:0	2.150	130.000	100.00	-5.000
36	5:53:59	2.233	126.000	100.00	-4.000
37	5:59:0	2.317	126.000	100.00	0.000
38	6:04:0	2.400	126.000	100.00	0.000
39	6:08:59	2.483	126.000	100.00	0.000
40	6:14:0	2.567	126.000	100.00	0.000
41	6:19:0	2.650	126.000	100.00	0.000
42	6:23:59	2.733	130.000	100.00	4.000
43	6:29:0	2.817	132.000	100.00	2.000
44	6:34:0	2.900	136.000	100.00	4.000
45	6:37:0	2.950	144.000	100.00	8.000
46	6:40:0	3.000	155.000	100.00	11.000
47	6:43:0	3.050	170.000	100.00	15.000
48	6:46:0	3.100	181.000	100.00	11.000
49	6:49:0	3.150	199.000	100.00	18.000
50	6:52:0	3.200	223.000	100.00	24.000
51	6:55:0	3.250	252.000	100.00	29.000
52	6:58:0	3.300	282.000	100.00	30.000

COMPANY : OKMAR OIL COMPANY
WELL : #4
GAUGE # : 13759
DATE : 22/12/87

FIELD : SMITH, "A"
JOB # : 12021
DEPTH : 2780
TEST :

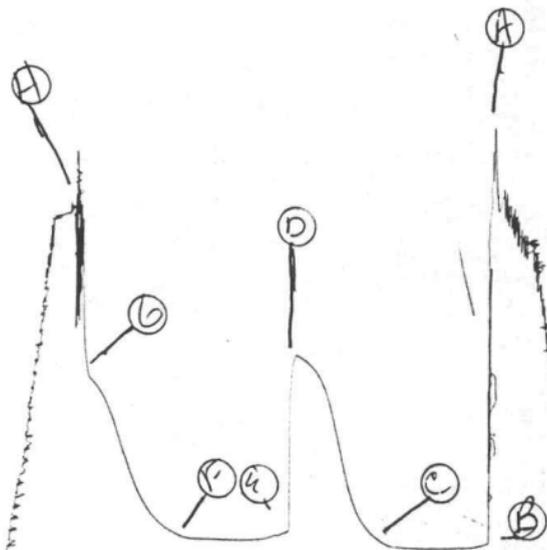
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	7: 1: 0	3.350	319.000	100.00	37.000
54	7: 4: 0	3.400	370.000	100.00	51.000
55	7: 7: 0	3.450	429.000	100.00	59.000
56	7:10: 0	3.500	490.000	100.00	61.000
57	7:13: 0	3.550	553.000	100.00	63.000
58	7:16: 0	3.600	614.000	100.00	61.000
59	7:19: 0	3.650	666.000	100.00	52.000
60	7:22: 0	3.700	704.000	100.00	38.000
61	7:25: 0	3.750	731.000	100.00	27.000
62	7:28: 0	3.800	754.000	100.00	23.000
63	7:31: 0	3.850	769.000	100.00	15.000

WESTERN TESTING CO. INC.

13559

JK # 12021

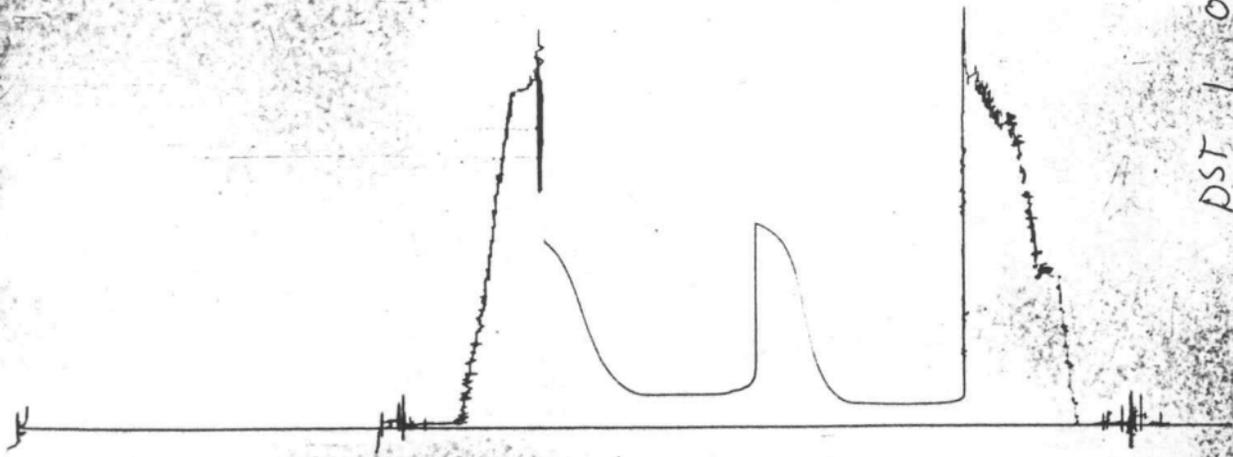
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DST 1 - OKMAR oil con

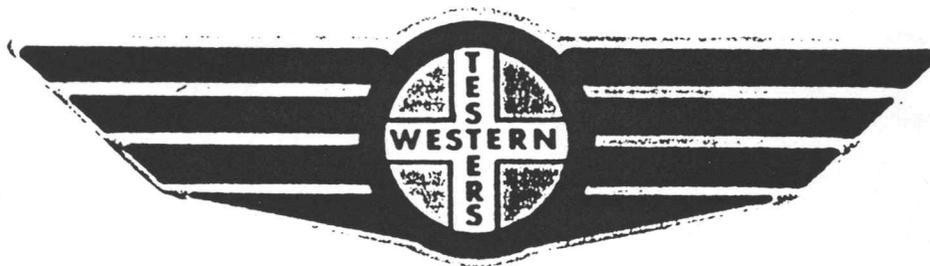
JKA # 12021

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DST 1 OK MAR OILCO 13551

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY OKMAR OIL COMPANY

LEASE & WELL NO.

SMITH "A" #4

SEC. 14 TWP. 12S RGE. 16W

TEST NO. 2

DATE 12-23-87

WESTERN TESTING CO. INC..
SUBSURFACE PRESSURE SURVEY

DATE : 12-23-87 TICKET : 12022
CUSTOMER : OKMAR OIL COMPANY LEASE : SMITH "A"
WELL : #4 TEST: 2 GEOLOGIST : P.S. HOUSTON
ELEVATION : 1828 GL FORMATION : TORONTO
SECTION : 14 TOWNSHIP : 12S
RANGE : 16W COUNTY : ELLIS STATE : KANSAS
GAUGE SN# : 13759 RANGE : 3900 CLOCK : 12

INTERVAL FROM : 2934 TO : 3023 TOTAL DEPTH : 3023
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 2929 SIZE : 6.75
PACKER DEPTH : 2934 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BEREDCO
MUD TYPE : STARCH VISCOSITY : 35
WEIGHT : 9.7 WATER LOSS (CC) : 12.0
CHLORIDES (PPM) : -
JARS-MAKE : WTC SERIAL NUMBER : 414
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 795 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2110 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 89 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 : STEADY 1 INCH BLOW THROUGHOUT THE TEST.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 160 FT OF: MUD / WITH FEW OIL SPECKS

Total Barrels Fluid = 1.13
Total Fluid Prod Rate = 14.19 BFPD
Indicated Wtr Rate = 1.42 BWPD
Corrected Wtr Rate = 0.46 BWPD

REMARK 1 :
REMARK 2 : TOOL SLID 11 FEET
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 2:20 AM TIME STARTED OFF BOTTOM : 6:20 AM

WELL TEMPERATURE : 99
INITIAL HYDROSTATIC PRESSURE (A) 1557
INITIAL FLOW PERIOD MIN: 55 (B) 128 PSI TO (C) : 125
INITIAL CLOSED IN PERIOD MIN: 60 (D) 882
FINAL FLOW PERIOD MIN: 60 (E) 176 PSI TO (F) : 164
FINAL CLOSED IN PERIOD MIN: 60 (G) 756
FINAL HYDROSTATIC PRESSURE (H) 1545

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : OKMAR OIL COMPANY
RIG : ELLIS-KANSAS
FIELD : SMITH "A"
WELL : #4
DATE : 12-23-87
GAUGE NO : 13759

OPERATIONAL COMMENTS

TOOL SLID 11 FEET

COMPANY : OKMAR OIL COMPANY
 WELL : #4
 GAUGE # : 13759
 DATE : 23/12/87

FIELD : SMITH "A"
 JOB # : 12022
 DEPTH : 3023
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2:20:0	0.000	128.000	99.00	0.000
2	2:24:59	0.083	115.000	99.00	-13.000
3	2:30:0	0.167	109.000	99.00	-6.000
4	2:35:0	0.250	107.000	99.00	-2.000
5	2:39:59	0.333	107.000	99.00	0.000
6	2:45:0	0.417	107.000	99.00	0.000
7	2:50:0	0.500	111.000	99.00	4.000
8	2:54:59	0.583	115.000	99.00	4.000
9	3:0:0	0.667	115.000	99.00	0.000
10	3:5:0	0.750	120.000	99.00	5.000
11	3:9:59	0.833	124.000	99.00	4.000
12	3:15:0	0.917	125.000	99.00	1.000
13	3:18:0	0.967	148.000	99.00	23.000
14	3:21:0	1.017	210.000	99.00	62.000
15	3:24:0	1.067	300.000	99.00	90.000
16	3:27:0	1.117	380.000	99.00	80.000
17	3:30:0	1.167	471.000	99.00	91.000
18	3:33:0	1.217	563.000	99.00	92.000
19	3:36:0	1.267	634.000	99.00	71.000
20	3:39:0	1.317	691.000	99.00	57.000
21	3:42:0	1.367	727.000	99.00	36.000
22	3:45:0	1.417	760.000	99.00	33.000
23	3:48:0	1.467	788.000	99.00	28.000
24	3:51:0	1.517	807.000	99.00	19.000
25	3:54:0	1.567	823.000	99.00	16.000
26	3:57:0	1.617	836.000	99.00	13.000
27	4:0:0	1.667	847.000	99.00	11.000
28	4:3:0	1.717	859.000	99.00	12.000
29	4:6:0	1.767	865.000	99.00	6.000
30	4:9:0	1.817	872.000	99.00	7.000
31	4:12:0	1.867	878.000	99.00	6.000
32	4:15:0	1.917	882.000	99.00	4.000
33	4:16:0	1.933	176.000	99.00	-706.000
34	4:20:0	2.000	162.000	99.00	-14.000
35	4:25:0	2.083	153.000	99.00	-9.000
36	4:30:0	2.167	153.000	99.00	0.000
37	4:35:0	2.250	153.000	99.00	0.000
38	4:40:0	2.333	153.000	99.00	0.000
39	4:45:0	2.417	154.000	99.00	1.000
40	4:50:0	2.500	155.000	99.00	1.000
41	4:55:0	2.583	156.000	99.00	1.000
42	5:0:0	2.667	158.000	99.00	2.000
43	5:5:0	2.750	160.000	99.00	2.000
44	5:10:0	2.833	162.000	99.00	2.000
45	5:15:0	2.917	164.000	99.00	2.000
46	5:18:0	2.967	174.000	99.00	10.000
47	5:21:0	3.017	185.000	99.00	11.000
48	5:24:0	3.067	202.000	99.00	17.000
49	5:27:0	3.117	227.000	99.00	25.000
50	5:30:0	3.167	252.000	99.00	25.000
51	5:33:0	3.217	279.000	99.00	27.000
52	5:36:0	3.267	311.000	99.00	32.000

COMPANY : OKMAR OIL COMPANY
WELL : #4
GAUGE # : 13759
DATE : 23/12/87

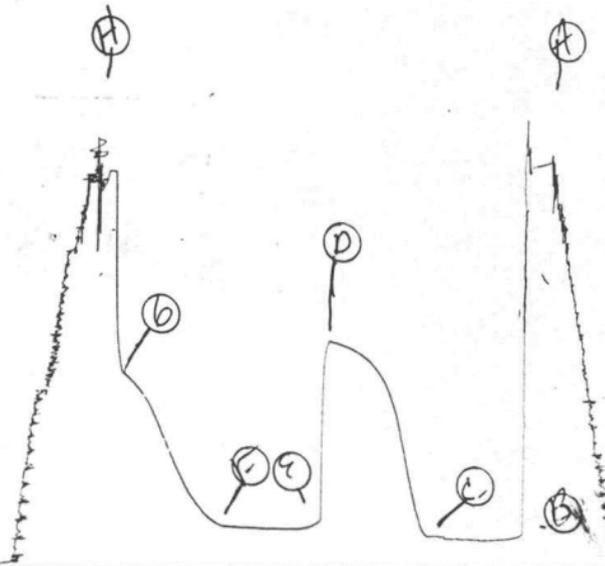
FIELD : SMITH "A"
JOB # : 12022
DEPTH : 3023
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	5:39: 0	3.317	349.000	99.00	38.000
54	5:42: 0	3.367	389.000	99.00	40.000
55	5:45: 0	3.417	431.000	99.00	42.000
56	5:48: 0	3.467	477.000	99.00	46.000
57	5:51: 0	3.517	521.000	99.00	44.000
58	5:54: 0	3.567	563.000	99.00	42.000
59	5:57: 0	3.617	605.000	99.00	42.000
60	6: 0: 0	3.667	639.000	99.00	34.000
61	6: 3: 0	3.717	672.000	99.00	33.000
62	6: 6: 0	3.767	698.000	99.00	26.000
63	6: 9: 0	3.817	721.000	99.00	23.000
64	6:12: 0	3.867	740.000	99.00	19.000
65	6:15: 0	3.917	756.000	99.00	16.000

WESTERN TESTING CO. INC.

JK # 12022

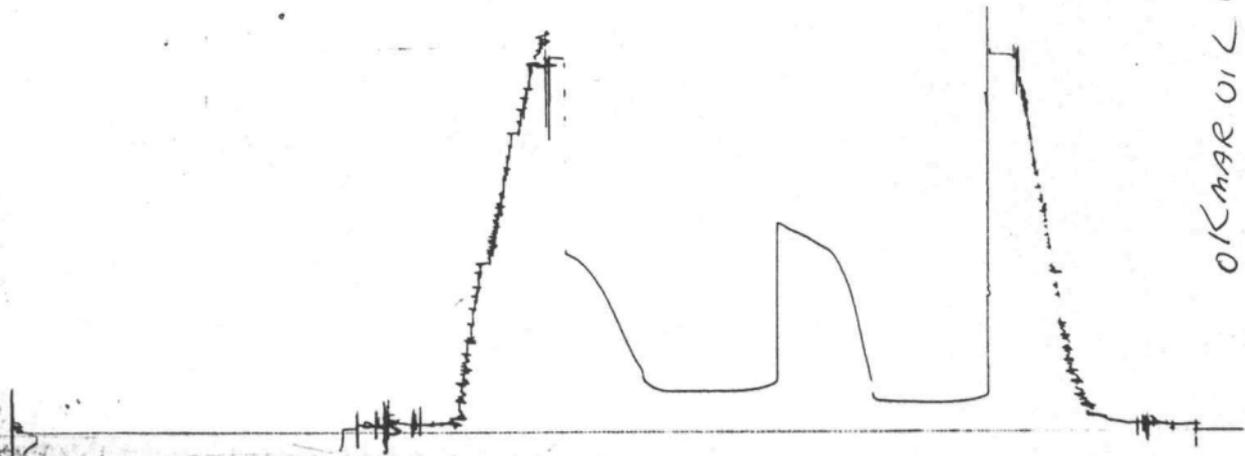
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OKMAE Oil Co. DST 2 13259

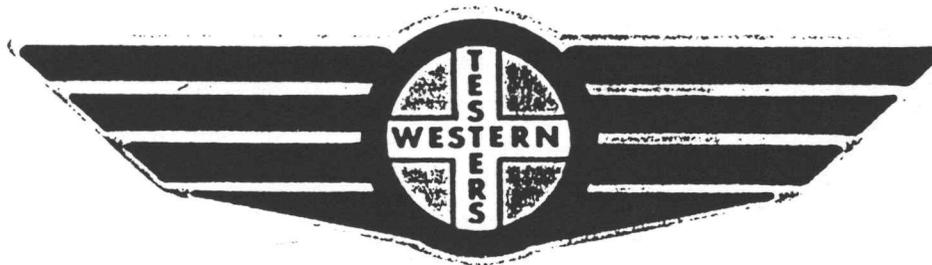
JK # 12022

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OKMAR OIL Co. DST 2 BSS 1

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY OKMAR OIL COMPANY

LEASE & WELL NO.

SMITH 'A' #4

SEC. 14

TWP. 12S

RGE. 16W

TEST NO. 3

DATE 12-23-87

WESTERN TESTING CO. INC. -
SUBSURFACE PRESSURE SURVEY

DATE : 12-23-87
CUSTOMER : OKMAR OIL COMPANY
WELL : #4 TEST: 3
ELEVATION : 1828 GL
SECTION : 14
RANGE : 16W COUNTY : ELLIS
GAUGE SN# : 13551 RANGE : 4150
TICKET : 12023
LEASE : SMITH "A"
GEOLOGIST : P.S. HOUSTON
FORMATION : KANSAS CITY
TOWNSHIP : 12S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3044 TO : 3068 TOTAL DEPTH : 3068
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3039 SIZE : 6.75
PACKER DEPTH : 3044 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BEREDCO
MUD TYPE : STARCH VISCOSITY : 32
WEIGHT : 9.3 WATER LOSS (CC) : 18.0
CHLORIDES (PPM) : -
JARS-MAKE : WTC SERIAL NUMBER : 414
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 795 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2220 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 24 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-OFF BOTTOM OF BUCKET IN 2 1/2 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-4" BLOW THROUGHOUT.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 405 FT OF: OIL CUT MUDDY GASSY WATER
60% MUD-30% GAS-10% OIL
RECOVERED : 450 FT OF: OIL CUT WATER
90% WATER-10% OIL
RESISTIVITY .3 CHLORIDES: 58000 PPM

Total Barrels Fluid = 6.47
Total Fluid Prod Rate = 124.25 BFPD
Indicated Oil Rate = 12.42 BOPD
Indicated Wtr Rate = 9.30 BWPD

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

SET PACKER(S) : 2:30 PM TIME STARTED OFF BOTTOM : 5:00 PM
WELL TEMPERATURE : 101
INITIAL HYDROSTATIC PRESSURE (A) 1632
INITIAL FLOW PERIOD MIN: 45 (B) 178 PSI TO (C) : 406
INITIAL CLOSED IN PERIOD MIN: 45 (D) 429
FINAL FLOW PERIOD MIN: 30 (E) 429 PSI TO (F) : 429
FINAL CLOSED IN PERIOD MIN: 30 (G) 429
FINAL HYDROSTATIC PRESSURE (H) 1609

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : OKMAR OIL COMPANY
RIG : ELLIS-KANSAS
FIELD : SMITH "A"
WELL : #4
DATE : 12-23-87
GAUGE NO : 13551

OPERATIONAL COMMENTS

COMPANY : OKMAR OIL COMPANY
 WELL : #4
 GAUGE # : 13551
 DATE : 23/12/87

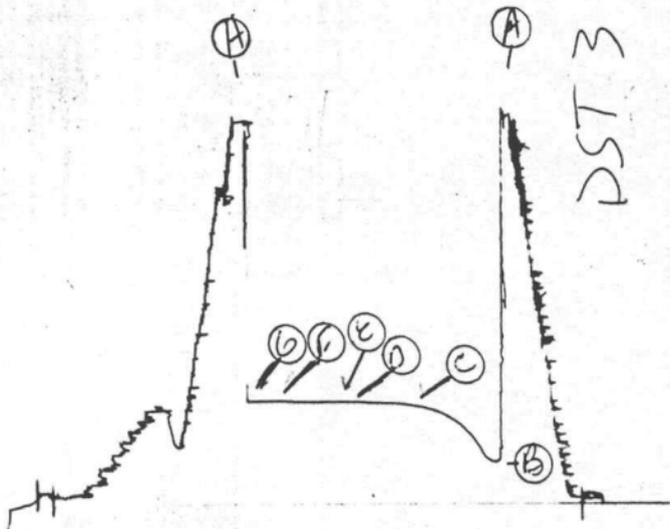
FIELD : SMITH "A"
 JOB # : 12023
 DEPTH : 3068
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	2:30:0	0.000	178.000	101.00	0.000
2	2:34:59	0.083	178.000	101.00	0.000
3	2:40:0	0.167	211.000	101.00	33.000
4	2:45:0	0.250	270.000	101.00	59.000
5	2:49:59	0.333	310.000	101.00	40.000
6	2:55:0	0.417	345.000	101.00	35.000
7	3:0:0	0.500	366.000	101.00	21.000
8	3:4:59	0.583	383.000	101.00	17.000
9	3:10:0	0.667	397.000	101.00	14.000
10	3:15:0	0.750	406.000	101.00	9.000
11	3:18:0	0.800	410.000	101.00	4.000
12	3:21:0	0.850	415.000	101.00	5.000
13	3:24:0	0.900	417.000	101.00	2.000
14	3:27:0	0.950	418.000	101.00	1.000
15	3:30:0	1.000	418.000	101.00	0.000
16	3:33:0	1.050	420.000	101.00	2.000
17	3:36:0	1.100	421.000	101.00	1.000
18	3:39:0	1.150	422.000	101.00	1.000
19	3:42:0	1.200	423.000	101.00	1.000
20	3:45:0	1.250	424.000	101.00	1.000
21	3:48:0	1.300	425.000	101.00	1.000
22	3:51:0	1.350	426.000	101.00	1.000
23	3:54:0	1.400	427.000	101.00	1.000
24	3:57:0	1.450	428.000	101.00	1.000
25	4:0:0	1.500	429.000	101.00	1.000
26	4:1:0	1.517	429.000	101.00	0.000
27	4:4:59	1.583	429.000	101.00	0.000
28	4:10:0	1.667	429.000	101.00	0.000
29	4:15:0	1.750	429.000	101.00	0.000
30	4:19:59	1.833	429.000	101.00	0.000
31	4:25:0	1.917	429.000	101.00	0.000
32	4:30:0	2.000	429.000	101.00	0.000
33	4:33:0	2.050	429.000	101.00	0.000
34	4:36:0	2.100	429.000	101.00	0.000
35	4:39:0	2.150	429.000	101.00	0.000
36	4:42:0	2.200	429.000	101.00	0.000
37	4:45:0	2.250	429.000	101.00	0.000
38	4:48:0	2.300	429.000	101.00	0.000
39	4:51:0	2.350	429.000	101.00	0.000
40	4:54:0	2.400	429.000	101.00	0.000
41	4:57:0	2.450	429.000	101.00	0.000
42	5:0:0	2.500	429.000	101.00	0.000

WESTERN TESTING CO. INC.

DKt # 12025

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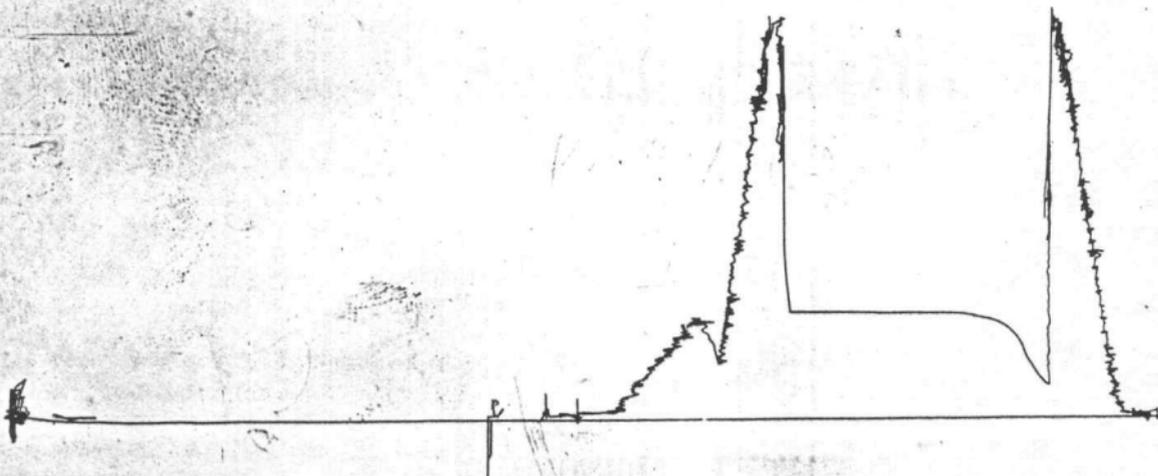
DST 3 OKMAS 1355-1

13403

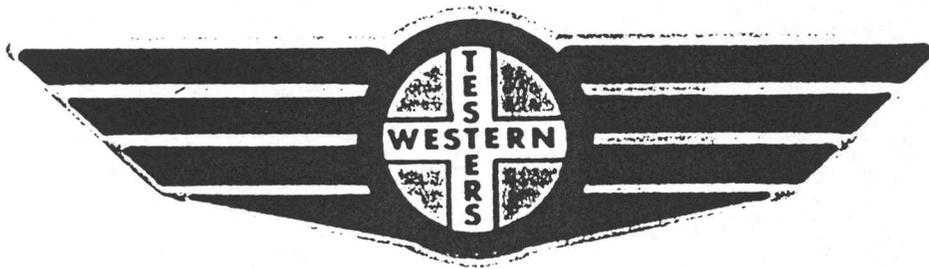
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DST 3 6K MAR 13403



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY OKMAR OIL COMPANY LEASE & WELL NO. SMITH "A" #4 SEC. 14 TWP. 12S RGE. 16W TEST NO. 4 DATE 12/26/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-26-87
CUSTOMER : OKMAR OIL COMPANY
WELL : #4 TEST: 4
ELEVATION : 1828
SECTION : 14
RANGE : 16W COUNTY : ELLIS
GAUGE SN# : 13551 RANGE : 4150
TICKET : 12024
LEASE : SMITH "A"
GEOLOGIST : P.S. HOUSTON
FORMATION : LANSING F
TOWNSHIP : 12S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3080 TO : 3120 TOTAL DEPTH : 3120
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3075 SIZE : 6.75
PACKER DEPTH : 3080 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BEREDCO
MUD TYPE : STARCH VISCOSITY : 40
WEIGHT : 9.5 WATER LOSS (CC) : 12.
CHLORIDES (PPM) :
JARS-MAKE : WTC SERIAL NUMBER : 414
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 795 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2256 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 40 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-STRONG BLOW OFF BOTTOM IN 8 MINUTES
BLOW COMMENT #2 : FINAL FLOW-STEADY BLOW OFF BOTTOM IN 11 MINUTES
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 345 FT OF: GASSY OIL CUT MUD
85% MUD-15% OIL
RECOVERED : 180 FT OF: MUDDY WATER
50% MUD-50% WATER
CHLORIDES: 66000 PPM
RESISTIVITY .35

Total Barrels Fluid = 3.72
Total Fluid Prod Rate = 59.48 BFPD
Indicated Oil Rate = 5.89 BOPD
Indicated Wtr Rate = 13.60 BWPD

REMARK 1 :
REMARK 2 : PULLED TIGHT COMING OUT OF HOLE
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 7:10 PM TIME STARTED OFF BOTTOM : 10:10 PM
WELL TEMPERATURE : 103
INITIAL HYDROSTATIC PRESSURE (A) 1669
INITIAL FLOW PERIOD MIN: 45 (B) 176 PSI TO (C) : 201
INITIAL CLOSED IN PERIOD MIN: 45 (D) 458
FINAL FLOW PERIOD MIN: 45 (E) 299 PSI TO (F) : 288
FINAL CLOSED IN PERIOD MIN: 45 (G) 455
FINAL HYDROSTATIC PRESSURE (H) 1667

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : OKMAR OIL COMPANY
RIG : ELLIS-KANSAS
FIELD : SMITH "A"
WELL : #4
DATE : 12-26-87
GAUGE NO : 13551

OPERATIONAL COMMENTS

PULLED TIGHT COMING OUT OF HOLE

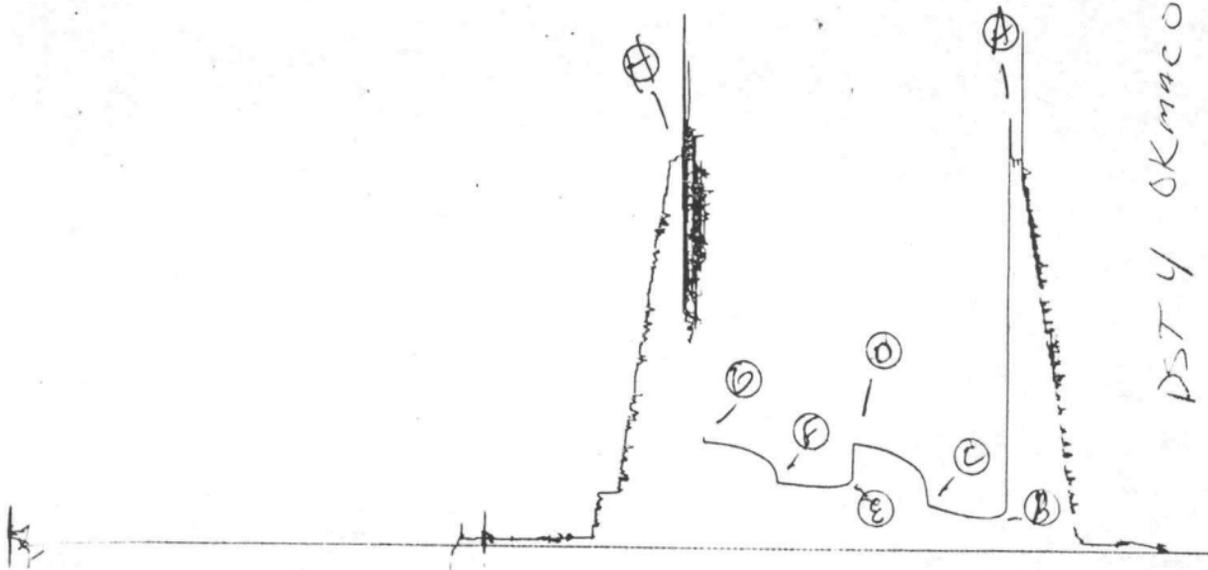
COMPANY : QKMAR OIL COMPANY
 WELL : #4
 GAUGE # : 13551
 DATE : 26/12/87

FIELD : SMITH, "A"
 JOB # : 12024
 DEPTH : 3120
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	7:10:0	0.000	176.000	103.00	0.000
2	7:14:59	0.083	157.000	103.00	-19.000
3	7:20:0	0.167	149.000	103.00	-8.000
4	7:25:0	0.250	149.000	103.00	0.000
5	7:29:59	0.333	156.000	103.00	7.000
6	7:35:0	0.417	161.000	103.00	5.000
7	7:40:0	0.500	169.000	103.00	8.000
8	7:44:59	0.583	181.000	103.00	12.000
9	7:50:0	0.667	194.000	103.00	13.000
10	7:55:0	0.750	201.000	103.00	7.000
11	7:58:0	0.800	310.000	103.00	109.000
12	8:01:0	0.850	349.000	103.00	39.000
13	8:04:0	0.900	370.000	103.00	21.000
14	8:07:0	0.950	382.000	103.00	12.000
15	8:10:0	1.000	393.000	103.00	11.000
16	8:13:0	1.050	406.000	103.00	13.000
17	8:16:0	1.100	414.000	103.00	8.000
18	8:19:0	1.150	425.000	103.00	11.000
19	8:22:0	1.200	433.000	103.00	8.000
20	8:25:0	1.250	438.000	103.00	5.000
21	8:28:0	1.300	444.000	103.00	6.000
22	8:31:0	1.350	448.000	103.00	4.000
23	8:34:0	1.400	451.000	103.00	3.000
24	8:37:0	1.450	454.000	103.00	3.000
25	8:40:0	1.500	458.000	103.00	4.000
26	8:41:0	1.517	299.000	103.00	-159.000
27	8:44:59	1.583	283.000	103.00	-16.000
28	8:50:0	1.667	276.000	103.00	-7.000
29	8:55:0	1.750	274.000	103.00	-2.000
30	8:59:59	1.833	274.000	103.00	0.000
31	9:05:0	1.917	274.000	103.00	0.000
32	9:10:0	2.000	274.000	103.00	0.000
33	9:14:59	2.083	280.000	103.00	6.000
34	9:20:0	2.167	288.000	103.00	8.000
35	9:25:0	2.250	288.000	103.00	0.000
36	9:28:0	2.300	353.000	103.00	65.000
37	9:31:0	2.350	377.000	103.00	24.000
38	9:34:0	2.400	393.000	103.00	16.000
39	9:37:0	2.450	407.000	103.00	14.000
40	9:40:0	2.500	417.000	103.00	10.000
41	9:43:0	2.550	426.000	103.00	9.000
42	9:46:0	2.600	434.000	103.00	8.000
43	9:49:0	2.650	437.000	103.00	3.000
44	9:52:0	2.700	444.000	103.00	7.000
45	9:55:0	2.750	447.000	103.00	3.000
46	9:58:0	2.800	451.000	103.00	4.000
47	10:01:0	2.850	455.000	103.00	4.000
48	10:04:0	2.900	455.000	103.00	0.000
49	10:07:0	2.950	455.000	103.00	0.000
50	10:10:0	3.000	455.000	103.00	0.000

Log # 12024

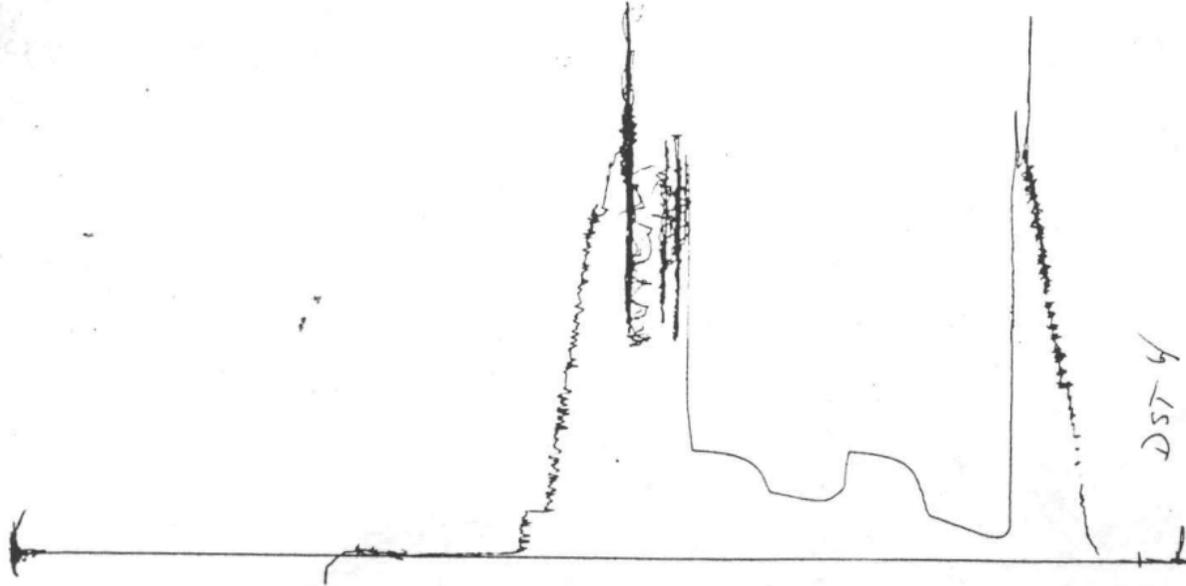
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DST 4 OKmacoil 1355-1

JK # 12024

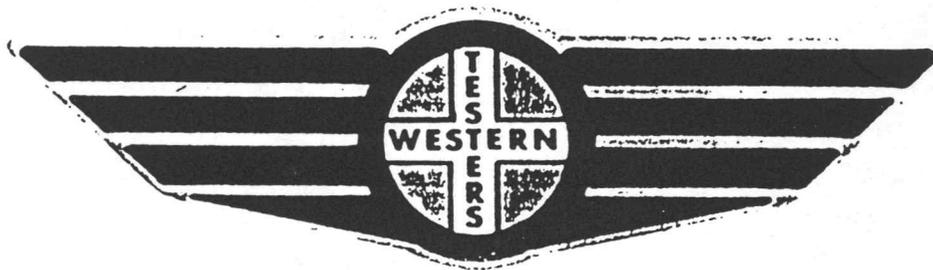
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DST 4

OK M.A.R. OIL 13403

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-27-87 TICKET : 12025
CUSTOMER : OKMAR OIL COMPANY LEASE : SMITH "A"
WELL : #4 TEST: 5 GEOLOGIST : P.S. HOUSTON
ELEVATION : 1828 FORMATION : LANSING G
SECTION : 14 TOWNSHIP : 12S
RANGE : 16W COUNTY : ELLIS STATE : KANSAS
GAUGE SN# : 13551 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3123 TO : 3138 TOTAL DEPTH : 3138
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3118 SIZE : 6.75
PACKER DEPTH : 3123 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BEREDCO
MUD TYPE : STARCH VISCOSITY : 40
WEIGHT : 9.5 WATER LOSS (CC) : 12.0
CHLORIDES (PPM) : -
JARS-MAKE : WTC SERIAL NUMBER : 414
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 795 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2299 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 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 : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-VERY WEAK SURFACE BLOW DIED IN 8 MINUTES
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 15 FT OF: MUD

Total Barrels Fluid = 0.11
Total Fluid Prod Rate = 2.04 BFPD
Indicated Wtr Rate = 0.20 BWPD

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

SET PACKER(S) :	8:17 AM	TIME STARTED OFF BOTTOM :	10:47 AM
WELL TEMPERATURE :	104		
INITIAL HYDROSTATIC PRESSURE		(A)	1658
INITIAL FLOW PERIOD MIN:	30	(B)	119 PSI TO (C) : 57
INITIAL CLOSED IN PERIOD MIN:	30	(D)	57
FINAL FLOW PERIOD MIN:	45	(E)	57 PSI TO (F) : 52
FINAL CLOSED IN PERIOD MIN:	45	(G)	48
FINAL HYDROSTATIC PRESSURE		(H)	1646

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : OKMAR OIL COMPANY
RIG : ELLIS-KANSAS
FIELD : SMITH "A"
WELL : #4
DATE : 12-27-87
GAUGE NO : 13551

OPERATIONAL COMMENTS

COMPANY : OKMAR OIL COMPANY
 WELL : #4
 GAUGE # : 13551
 DATE : 27/12/87

FIELD : SMITH "A"
 JOB # : 12025
 DEPTH : 3138
 TEST :

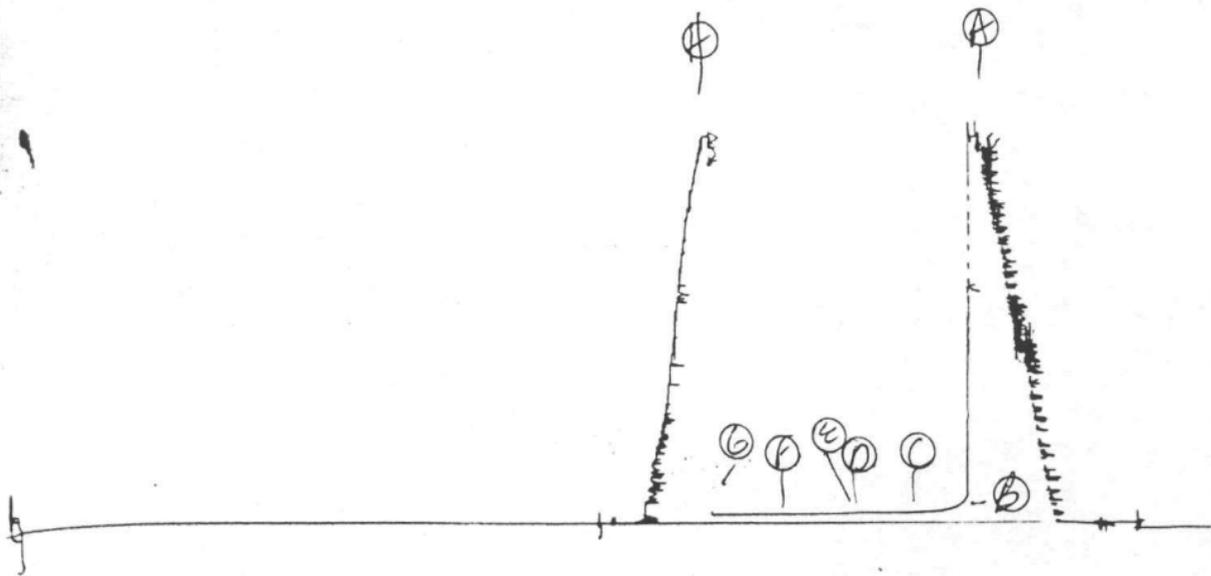
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	8:17:0	0.000	119.000	104.00	0.000
2	8:21:59	0.083	89.000	104.00	-30.000
3	8:27:0	0.167	71.000	104.00	-18.000
4	8:32:0	0.250	65.000	104.00	-6.000
5	8:36:59	0.333	59.000	104.00	-6.000
6	8:42:0	0.417	57.000	104.00	-2.000
7	8:47:0	0.500	57.000	104.00	0.000
8	8:50:0	0.550	57.000	104.00	0.000
9	8:53:0	0.600	57.000	104.00	0.000
10	8:56:0	0.650	57.000	104.00	0.000
11	8:59:0	0.700	57.000	104.00	0.000
12	9:02:0	0.750	57.000	104.00	0.000
13	9:05:0	0.800	57.000	104.00	0.000
14	9:08:0	0.850	57.000	104.00	0.000
15	9:11:0	0.900	57.000	104.00	0.000
16	9:14:0	0.950	57.000	104.00	0.000
17	9:17:0	1.000	57.000	104.00	0.000
18	9:18:0	1.017	57.000	104.00	0.000
19	9:21:59	1.083	57.000	104.00	0.000
20	9:27:0	1.167	52.000	104.00	-5.000
21	9:32:0	1.250	52.000	104.00	0.000
22	9:36:59	1.333	52.000	104.00	0.000
23	9:42:0	1.417	52.000	104.00	0.000
24	9:47:0	1.500	52.000	104.00	0.000
25	9:51:59	1.583	52.000	104.00	0.000
26	9:57:0	1.667	52.000	104.00	0.000
27	10:02:0	1.750	52.000	104.00	0.000
28	10:05:0	1.800	48.000	104.00	-4.000
29	10:08:0	1.850	48.000	104.00	0.000
30	10:11:0	1.900	48.000	104.00	0.000
31	10:14:0	1.950	48.000	104.00	0.000
32	10:17:0	2.000	48.000	104.00	0.000
33	10:20:0	2.050	48.000	104.00	0.000
34	10:23:0	2.100	48.000	104.00	0.000
35	10:26:0	2.150	48.000	104.00	0.000
36	10:29:0	2.200	48.000	104.00	0.000
37	10:32:0	2.250	48.000	104.00	0.000
38	10:35:0	2.300	48.000	104.00	0.000
39	10:38:0	2.350	48.000	104.00	0.000
40	10:41:0	2.400	48.000	104.00	0.000
41	10:44:0	2.450	48.000	104.00	0.000
42	10:47:0	2.500	48.000	104.00	0.000

WESTERN TESTING CO. INC.

DST 5 GKNAC OIL CO. 1355-1

W# 12025

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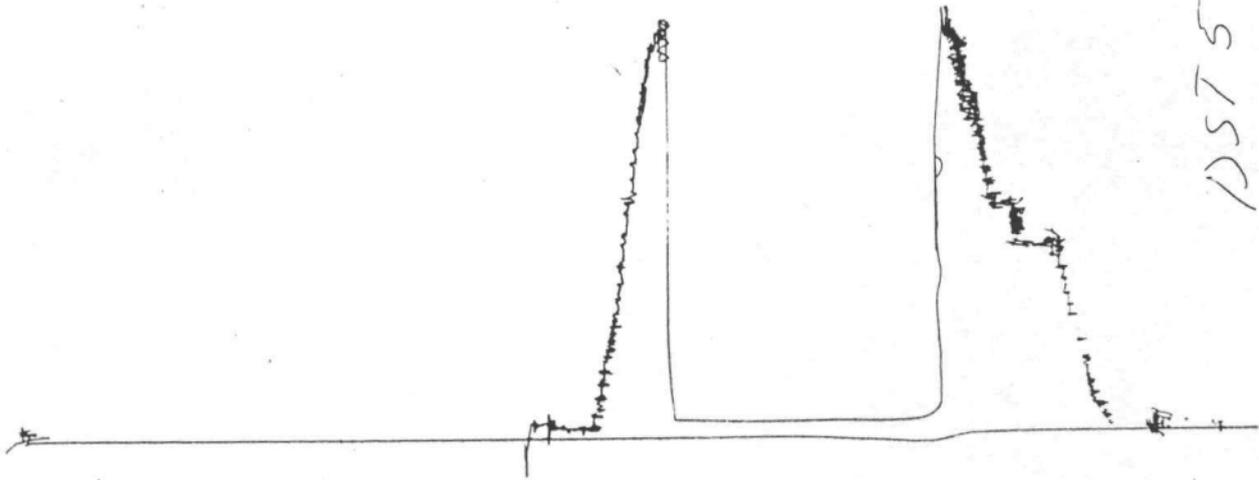


JK # 12025

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13403.

DST 5 OXMAR OIL CO.



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-27-87
CUSTOMER : OKMAR OIL COMPANY
WELL : #4 TEST: 6
ELEVATION : 1828 GL
SECTION : 14
RANGE : 16W COUNTY : ELLIS
GAUGE SN# : 13551 RANGE : 4150
TICKET : 12726
LEASE : SMITH "A"
GEOLOGIST : P.S. HOUSTON
FORMATION : LANSING
TOWNSHIP : 12D
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3148 TO : 3222 TOTAL DEPTH : 3222
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3143 SIZE : 6.75
PACKER DEPTH : 3148 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BEREDCO
MUD TYPE : STARCH VISCOSITY : 40
WEIGHT : 9.7 WATER LOSS (CC) : 15
CHLORIDES (PPM) : -
JARS-MAKE : WTC SERIAL NUMBER : 414
DID WELL FLOW ? : REVERSED OUT ? :

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 795 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2324 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 74 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-STEADY BUILDING BLOW-OFF BOTTOM IN 26
MINUTES.
BLOW COMMENT #2 : FINAL FLOW-STEADY BUILDING BLOW-OFF BOTTOM IN 29 MINUTES
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : OKMAR OIL COMPANY
RIG : #4
FIELD : SMITH
WELL : A ""
DATE : 12-27-87
GAUGE NO : 12726

OPERATIONAL COMMENTS

COMPANY : OKMAR OIL COMPANY
 WEL : A"
 GAUGE # : 12726
 DATE : 87/ 0/45

FIELD : SMITH
 JOB # : ELLIS-KANSAS
 DEPTH : 13551
 TEST : 1

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	0: 0:12	0.000	165.000	103.00	0.000
2	0: 5:11	0.083	149.000	103.00	-16.000
3	0:10:12	0.167	144.000	103.00	-5.000
4	0:15:11	0.250	144.000	103.00	0.000
5	0:20:11	0.333	144.000	103.00	0.000
6	0:25:12	0.417	144.000	103.00	0.000
7	0:30:12	0.500	144.000	103.00	0.000
8	0:35:11	0.583	144.000	103.00	0.000
9	0:40:12	0.667	144.000	103.00	0.000
10	0:45:12	0.750	144.000	103.00	0.000
11	0:50:11	0.833	144.000	103.00	0.000
12	0:55:12	0.917	159.000	103.00	15.000
13	1: 0:12	1.000	161.000	103.00	2.000
14	1: 3:11	1.050	169.000	103.00	8.000
15	1: 6:11	1.100	179.000	103.00	10.000
16	1: 9:11	1.150	197.000	103.00	18.000
17	1:12:11	1.200	221.000	103.00	24.000
18	1:15:11	1.250	245.000	103.00	24.000
19	1:18:11	1.300	271.000	103.00	26.000
20	1:21:11	1.350	297.000	103.00	26.000
21	1:24:11	1.400	318.000	103.00	21.000
22	1:27:11	1.450	347.000	103.00	29.000
23	1:30:11	1.500	379.000	103.00	32.000
24	1:33:11	1.550	408.000	103.00	29.000
25	1:36:11	1.600	430.000	103.00	22.000
26	1:39:11	1.650	462.000	103.00	32.000
27	1:42:11	1.700	483.000	103.00	21.000
28	1:45:11	1.750	504.000	103.00	21.000
29	1:48:11	1.800	527.000	103.00	23.000
30	1:51:11	1.850	545.000	103.00	18.000
31	1:54:11	1.900	561.000	103.00	16.000
32	1:57:11	1.950	571.000	103.00	10.000
33	1:58:12	1.967	241.000	103.00	-330.000
34	2: 2:11	2.033	222.000	103.00	-19.000
35	2: 7:12	2.117	215.000	103.00	-7.000
36	2:12:11	2.200	215.000	103.00	0.000
37	2:17:11	2.283	215.000	103.00	0.000
38	2:22:12	2.367	215.000	103.00	0.000
39	2:27:11	2.450	215.000	103.00	0.000
40	2:32:11	2.533	215.000	103.00	0.000
41	2:37:12	2.617	215.000	103.00	0.000
42	2:42:11	2.700	215.000	103.00	0.000
43	2:47:11	2.783	215.000	103.00	0.000
44	2:52:12	2.867	215.000	103.00	0.000
45	2:57:11	2.950	215.000	103.00	0.000
46	3: 0:11	3.000	215.000	103.00	0.000
47	3: 3:11	3.050	218.000	103.00	3.000
48	3: 6:12	3.100	228.000	103.00	10.000
49	3: 9:11	3.150	237.000	103.00	9.000
50	3:12:11	3.200	245.000	103.00	8.000
51	3:15:11	3.250	259.000	103.00	14.000
52	3:18:11	3.300	274.000	103.00	15.000

COMPANY : OKMAR OIL COMPANY
WELL : A"
GAUGE # : 12726
DATE : 87/ 0/45

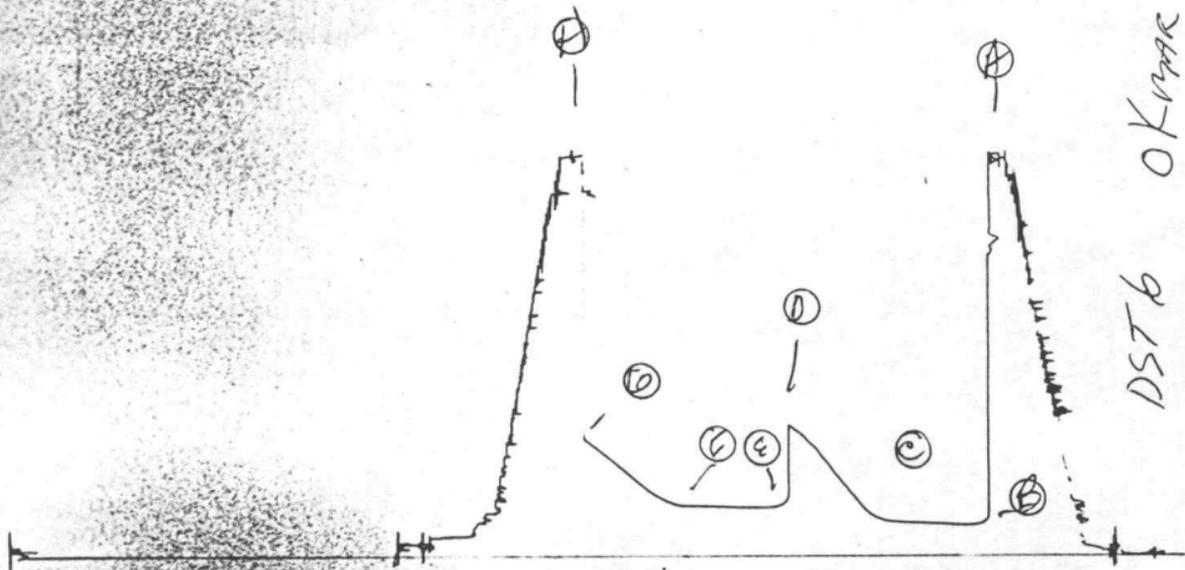
FIELD : SMITH
JOB # : ELLIS-KANSAS
DEPTH : 13551
TEST : 1

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	3:21:12	3.350	289.000	103.00	15.000
54	3:24:11	3.400	305.000	103.00	16.000
55	3:27:11	3.450	325.000	103.00	20.000
56	3:30:11	3.500	341.000	103.00	16.000
57	3:33:12	3.550	363.000	103.00	22.000
58	3:36:11	3.600	381.000	103.00	18.000
59	3:39:11	3.650	400.000	103.00	19.000
60	3:42:11	3.700	414.000	103.00	14.000
61	3:45:11	3.750	433.000	103.00	19.000
62	3:48:12	3.800	450.000	103.00	17.000
63	3:51:11	3.850	469.000	103.00	19.000
64	3:54:11	3.900	490.000	103.00	21.000
65	3:57:11	3.950	498.000	103.00	8.000

WESTERN TESTING CO. INC.

W # 12726

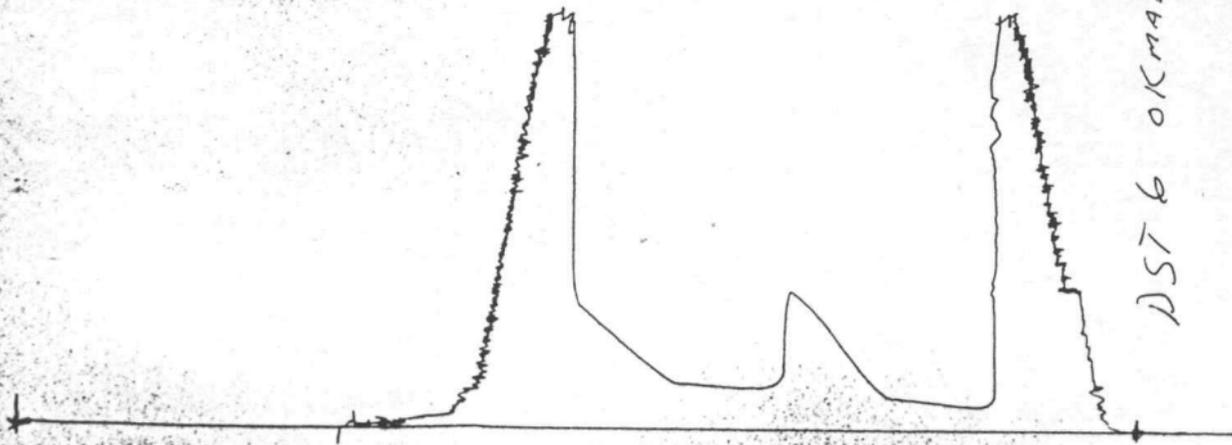
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DST 6 OKMAR oil 13551

KG # 12726

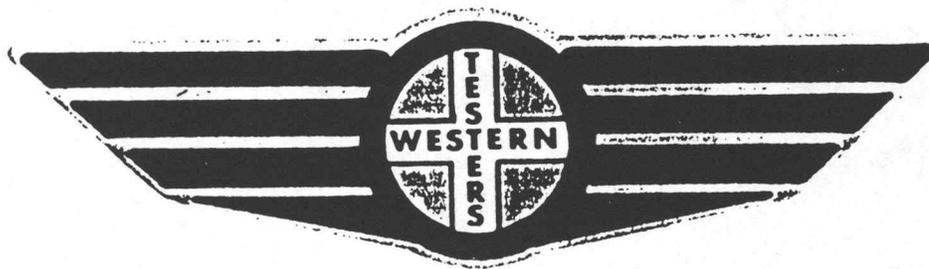
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DST 6 OKMARCO/CO

13403

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY OKMAR OIL COMPANY

LEASE & WELL NO. SMITH "A" #4

SEC. 14 TWP. 12S RGE. 16W TEST NO. 7 DATE 12-28-87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 12-28-87 TICKET : 12727
CUSTOMER : OKMAR OIL COMPANY LEASE : SMITH "A"
WELL : #4 TEST: 7 GEOLOGIST : P.S. HOUSTON
ELEVATION : 1828 GL FORMATION : ARBUCKLE
SECTION : 14 TOWNSHIP : 12S
RANGE : 16W COUNTY : ELLIS STATE : KANSAS
GAUGE SN# : 13551 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3298 TO : 3313 TOTAL DEPTH : 3313

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3293 SIZE : 6.75
PACKER DEPTH : 3298 SIZE : 6.75
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BEREDCO
MUD TYPE : STARCH VISCOSITY : 48
WEIGHT : 9.5 WATER LOSS (CC) : 13
CHLORIDES (PPM) : -
JARS-MAKE : WTC SERIAL NUMBER : 414
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 795 FT I.D. inch : 2.70
DRILL PIPE LENGTH : 2474 FT I.D. inch : 3.80
TEST TOOL LENGTH : 29 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 : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-SLOW BUILDING BLOW-4" IN BUCKET.
BLOW COMMENT #2 : FINAL FLOW-VERY WEAK SURFACE BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : OKMAR OIL COMPANY
RIG : ELLIS-KANSAS
FIELD : SMITH "A"
WELL : #4
DATE : 12-28-87
GAUGE NO : 13551

OPERATIONAL COMMENTS

STYLIS BROKE ON THE OUTSIDE RECORDER.

COMPANY : OKMAR OIL COMPANY
 WELL : #4
 GAUGE # : 13551
 DATE : 28/12/87

FIELD : SMITH "A"
 JOB # : 12727
 DEPTH : 3313
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P(i-1)$
1	5:55: 0	0.000	121.000	106.00	0.000
2	5:59:59	0.083	103.000	106.00	-18.000
3	6: 5: 0	0.167	96.000	106.00	-7.000
4	6:10: 0	0.250	89.000	106.00	-7.000
5	6:14:59	0.333	86.000	106.00	-3.000
6	6:20: 0	0.417	86.000	106.00	0.000
7	6:25: 0	0.500	86.000	106.00	0.000
8	6:29:59	0.583	86.000	106.00	0.000
9	6:35: 0	0.667	86.000	106.00	0.000
10	6:40: 0	0.750	86.000	106.00	0.000
11	6:44:59	0.833	86.000	106.00	0.000
12	6:50: 0	0.917	86.000	106.00	0.000
13	6:55: 0	1.000	86.000	106.00	0.000
14	6:58: 0	1.050	86.000	106.00	0.000
15	7: 1: 0	1.100	86.000	106.00	0.000
16	7: 4: 0	1.150	97.000	106.00	11.000
17	7: 7: 0	1.200	118.000	106.00	21.000
18	7:10: 0	1.250	139.000	106.00	21.000
19	7:13: 0	1.300	159.000	106.00	20.000
20	7:16: 0	1.350	172.000	106.00	13.000
21	7:19: 0	1.400	180.000	106.00	8.000
22	7:22: 0	1.450	188.000	106.00	8.000
23	7:25: 0	1.500	196.000	106.00	8.000
24	7:28: 0	1.550	199.000	106.00	3.000
25	7:31: 0	1.600	201.000	106.00	2.000
26	7:34: 0	1.650	201.000	106.00	0.000
27	7:37: 0	1.700	201.000	106.00	0.000
28	7:40: 0	1.750	201.000	106.00	0.000
29	7:43: 0	1.800	201.000	106.00	0.000
30	7:46: 0	1.850	201.000	106.00	0.000
31	7:49: 0	1.900	201.000	106.00	0.000
32	7:52: 0	1.950	201.000	106.00	0.000
33	7:55: 0	2.000	201.000	106.00	0.000
34	7:56: 0	2.017	141.000	106.00	-60.000
35	7:59:59	2.083	118.000	106.00	-23.000
36	8: 5: 0	2.167	110.000	106.00	-8.000
37	8:10: 0	2.250	105.000	106.00	-5.000
38	8:14:59	2.333	105.000	106.00	0.000
39	8:20: 0	2.417	105.000	106.00	0.000
40	8:25: 0	2.500	105.000	106.00	0.000
41	8:29:59	2.583	105.000	106.00	0.000
42	8:35: 0	2.667	105.000	106.00	0.000
43	8:40: 0	2.750	105.000	106.00	0.000
44	8:44:59	2.833	105.000	106.00	0.000
45	8:50: 0	2.917	105.000	106.00	0.000
46	8:55: 0	3.000	105.000	106.00	0.000
47	8:58: 0	3.050	105.000	106.00	0.000
48	9: 1: 0	3.100	105.000	106.00	0.000
49	9: 4: 0	3.150	105.000	106.00	0.000
50	9: 7: 0	3.200	118.000	106.00	13.000
51	9:10: 0	3.250	133.000	106.00	15.000
52	9:13: 0	3.300	143.000	106.00	10.000

COMPANY : OKMAR OIL COMPANY
WELL : #4
GAUGE # : 13551
DATE : 28/12/87

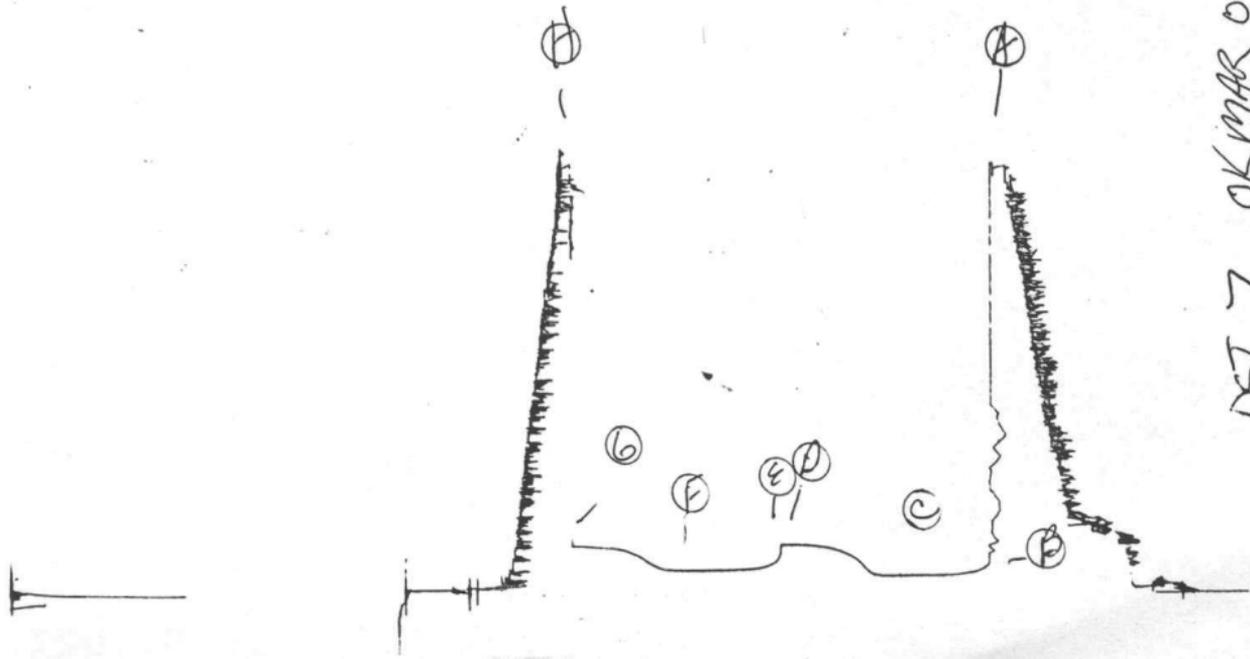
FIELD : SMITH "A"
JOB # : 12727
DEPTH : 3313
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	9:16: 0	3.350	157.000	106.00	14.000
54	9:19: 0	3.400	173.000	106.00	16.000
55	9:22: 0	3.450	178.000	106.00	5.000
56	9:25: 0	3.500	185.000	106.00	7.000
57	9:28: 0	3.550	188.000	106.00	3.000
58	9:31: 0	3.600	188.000	106.00	0.000
59	9:34: 0	3.650	192.000	106.00	4.000
60	9:37: 0	3.700	192.000	106.00	0.000
61	9:40: 0	3.750	196.000	106.00	4.000
62	9:43: 0	3.800	196.000	106.00	0.000
63	9:46: 0	3.850	198.000	106.00	2.000
64	9:49: 0	3.900	198.000	106.00	0.000
65	9:52: 0	3.950	198.000	106.00	0.000
66	9:55: 0	4.000	198.000	106.00	0.000

WESTERN TESTING CO. INC.

2Kt # 12727

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DST 7 OK MAR 01 L Co 13551

STYLIS BROKE

Job # 12727

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OKMAR: oil
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