WESTERN TESTING CO., INC.
FORMATION TESTING TICKET

No. 18544

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1840 KB Formation _____ Eff. Pay — Ft.

District GT. Bend Date 5-8-93 Customer Order No. —

COMPANY NAME Hamp Oil Company

ADDRESS P.O. Box 391 Ponca City, Oklahoma 74602-0391

LEASE AND WELL NO. Spangenberg #A-1 COUNTY Stafford STATE Ks Sec. 26 Twp. 22S Rge. 12W

Mail Invoice To Same Co. Name #A-1 Spangenberg Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 3643 ft. to 3653 ft. Total Depth 3653 ft.

Packer Depth 3638 ft. Size 6 7/8 in. Packer Depth — ft. Size — in.

Packer Depth 3643 ft. Size 6 7/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3647 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 3650 ft. Recorder Number 13550 Cap. 4175

Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor White & Ellis rig 8

Mud Type Chemical Viscosity 45

Weight 9.2 Water Loss 10.4 cc.

Chlorides 10,000 P.P.M.

Jars: Make — Serial Number —

Did Well Flow? — Reversed Out —

Drill Collar Length — I. D. — in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 3623 I. D. 3.8 in.

Test Tool Length 20 ft. Tool Size 5 1/2 in.

Anchor Length 10 ft. Size 5 1/2 in.

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: IF - Weak Blow Throughout 1/2" To 1" Blow
FF - Weak Blow Throughout 1/4" To 1/2" Blow

Recovered 1 ft. of Clean Oil

Recovered 60 ft. of Muddy WATER 17% mud 83% WATER w/ slight scum of oil in gel in out

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 15000 P.P.M. Sample Jars used 1 Remarks:

MAY 11 1993

Time On Location 10:45 A.M. / P.M. Time Pick Up Tool 11:20 A.M. / P.M. Time Off Location A.M. / P.M.

Time Set Packer(s) 12:50 A.M. / P.M. Time Started Off Bottom 4:20 A.M. / P.M. Maximum Temperature 114°

Initial Hydrostatic Pressure		(A) 1807	P.S.I.	
Initial Flow Period	Minutes 30	(B) 31	P.S.I. to (C) 31	P.S.I.
Initial Closed In Period	Minutes 60	(D) 1070	P.S.I.	
Final Flow Period	Minutes 60	(E) 31	P.S.I. to (F) 31	P.S.I.
Final Closed In Period	Minutes 60	(G) 883	P.S.I.	
Final Hydrostatic Pressure		(H) 1796	P.S.I.	

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By James R Price
Signature of Customer or his authorized representative

Western Representative Ray Schwager Hank 404

FIELD INVOICE

Open Hole Test	$
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$

WESTERN TESTING CO., INC.

Pressure Data

Date 5 & 6 52 Test Ticket No. 1854

Recorder No. 10220 Capacity Location

Clock No. Elevation Well Temperature

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1824	P.S.I.	Open Tool	M	
B	First Initial Flow Pressure	47	P.S.I.	First Flow Pressure	Mins 30	M
C	First Final Flow Pressure	45	P.S.I.	Initial Closed-in Pressure	Mins 60	M
D	Initial Closed-in Pressure	1079	P.S.I.	Second Flow Pressure	Mins 60	Mi
E	Second Initial Flow Pressure	53	P.S.I.	Final Closed-in Pressure	Mins 60	Mi
F	Second Final Flow Pressure	54	P.S.I.			
G	Final Closed-in Pressure	890	P.S.I.			
H	Final Hydrostatic Mud	1796	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: Inc.		Breakdown: Inc.		Breakdown: Inc.		Breakdown: Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	47	0	47	0	53	0	54
P 2 5		3	380	5		3	188
P 3 10		6	582	10		6	352
P 4 15		9	684	15		9	450
P 5 20		12	749	20		12	515
P 6 25		15	804	25		15	574
P 7 30	45	18	852	30		18	615
P 8 35		21	884	35		21	651
P 9 40		24	912	40	53	24	680
P10 45		27	936	45	53	27	709
P11 50		30	956	50	54	30	734
P12 55		33	977	55	54	33	758
P13 60		36	989	60	54	36	775
P14 65		39	1003	65		39	798
P15 70		42	1018	70		42	814
P16 75		45	1029	75		45	829
P17 80		48	1040	80		48 844	850
P18 85		51	1053	85		51	855
P19 90		54	1061	90		54	869
P20 95		57	1070	95		57	880
100		60	1079	100		60	890

COMPANY HAMP OIL LEASE & WELL NO. #A-1 SPANGENBERG SEC. 26 TWP. 22S RGE. 12WTEST NO. 2 DATE 5/8/93

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone **1-800-688-7021**

DST REPORT

GENERAL INFORMATION

DATE	: 5/8/93			TICKET	: 18544
CUSTOMER	: HAMP OIL			LEASE	: SPANGENBERG
WELL	: #A-1	TEST:	2	GEOLOGIST:	CRAIG
ELEVATION:	1840 KB			FORMATION:	
SECTION	: 26			TOWNSHIP	: 22S
RANGE	: 12W	COUNTY:	STAFFORD	STATE	: KS
GAUGE SN#:	10270	RANGE :	4150	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3643.00 ft TO: 3653.00 ft TVD: 3653.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3647.0 ft 3650.0 ft
TEMPERATURE: 114.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3623.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	10.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	3638.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3643.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON.	: WHITE & ELLIS RIG 8		
MUD TYPE	: CHEMICAL	VISCOSITY :	45.00 cp
WEIGHT	: 9.200 ppg	WATER LOSS:	10.400 cc
CHLORIDES	: 10000 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?:	NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW THROUGHOUT - 1/2 TO 1 INCH BLOW. FINAL FLOW PERIOD WEAK BLOW THROUGH-OUT - 1/4 TO 1/2 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1.0	100.0	0.0	0.0	0.0	CLEAN OIL
60.0	0.0	0.0	83.0	17.0	MUDDY WATER W/ SLI SCUM
0.0	0.0	0.0	0.0	0.0	OF OIL IN GRINDOUT
0.0	0.0	0.0	0.0	0.0	CHLORIDES 15000 PPM

RATE INFORMATION

OIL VOLUME:	0.0140 STB		
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME:	90.0000 min.
MUD VOLUME:	0.1431 STB	AVERAGE OIL RATE:	0.2244 STB/D
WATER VOLUME:	0.6985 STB	AVERAGE WATER RATE:	13.4653 STB/D
TOTAL FLUID :	0.8556 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1807.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	31.00
INITIAL SHUT-IN	60.00		1070.00
FINAL FLOW	60.00	31.00	31.00
FINAL SHUT-IN	60.00		883.00

FINAL HYDROSTATIC PRESSURE: 1796.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1834.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	42.00
INITIAL SHUT-IN	60.00		1079.00
FINAL FLOW	60.00	53.00	54.00
FINAL SHUT-IN	60.00		890.00

FINAL HYDROSTATIC PRESSURE: 1796.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 5/8/93			TICKET	: 18544
CUSTOMER	: HAMP OIL			LEASE	: SPANGENBERG
WELL	: #A-1	TEST:	2	GEOLOGIST:	CRAIG
ELEVATION:	1840 KB			FORMATION:	
SECTION	: 26			TOWNSHIP	: 22S
RANGE	: 12W	COUNTY:	STAFFORD	STATE	: KS
GAUGE SN#:	10270	RANGE :	4150	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	42.00	42.00
5.00	42.00	0.00
10.00	42.00	0.00
15.00	42.00	0.00
20.00	42.00	0.00
25.00	42.00	0.00
30.00	42.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	380.00	380.00	0.00
6.00	583.00	203.00	0.00
9.00	684.00	101.00	0.00
12.00	749.00	65.00	0.00
15.00	804.00	55.00	0.00
18.00	852.00	48.00	0.00
21.00	884.00	32.00	0.00
24.00	913.00	29.00	0.00
27.00	936.00	23.00	0.00
30.00	956.00	20.00	0.00
33.00	977.00	21.00	0.00
36.00	989.00	12.00	0.00
39.00	1003.00	14.00	0.00
42.00	1018.00	15.00	0.00
45.00	1029.00	11.00	0.00
48.00	1040.00	11.00	0.00
51.00	1053.00	13.00	0.00
54.00	1061.00	8.00	0.00
57.00	1070.00	9.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	1079.00	9.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	53.00	53.00
5.00	53.00	0.00
10.00	53.00	0.00
15.00	53.00	0.00
20.00	53.00	0.00
25.00	53.00	0.00
30.00	53.00	0.00
35.00	53.00	0.00
40.00	53.00	0.00
45.00	53.00	0.00
50.00	54.00	1.00
55.00	54.00	0.00
60.00	54.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	188.00	188.00	0.00
6.00	352.00	164.00	0.00
9.00	450.00	98.00	0.00
12.00	515.00	65.00	0.00
15.00	572.00	57.00	0.00
18.00	615.00	43.00	0.00
21.00	651.00	36.00	0.00
24.00	680.00	29.00	0.00
27.00	709.00	29.00	0.00
30.00	734.00	25.00	0.00
33.00	758.00	24.00	0.00
36.00	775.00	17.00	0.00
39.00	798.00	23.00	0.00
42.00	814.00	16.00	0.00
45.00	829.00	15.00	0.00
48.00	844.00	15.00	0.00

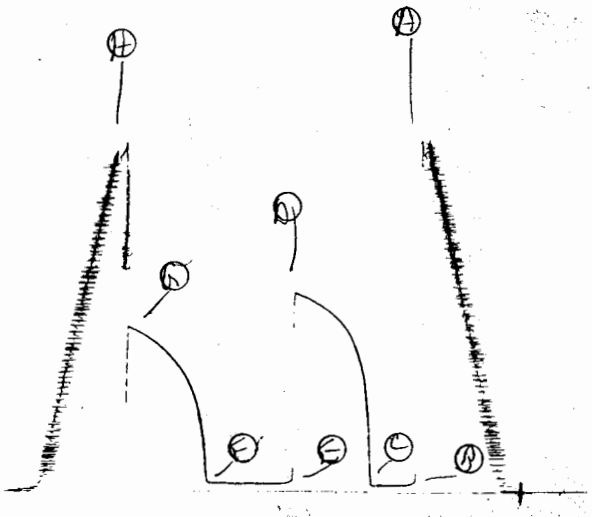
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
51.00	855.00	11.00	0.00
54.00	869.00	14.00	0.00
57.00	880.00	11.00	0.00
60.00	890.00	10.00	0.00

ZK+18544

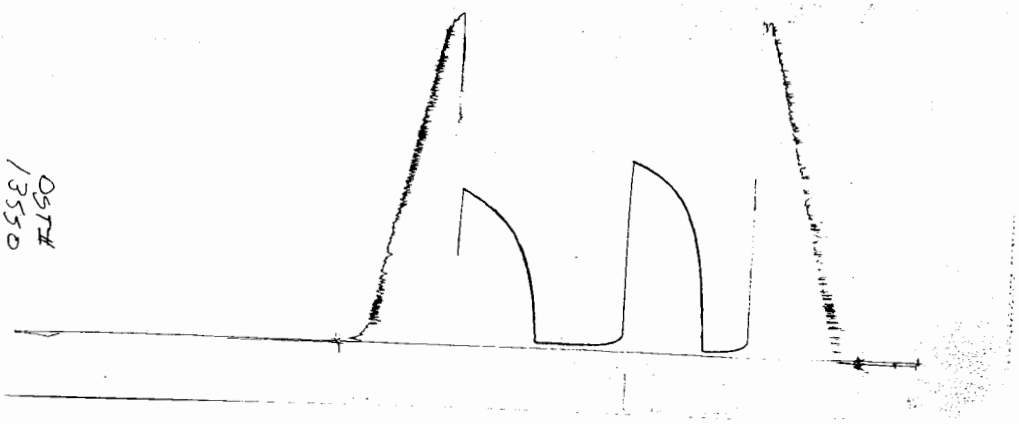
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0574
13550

WESTERN TESTING CO., INC.
FORMATION TESTING TICKET

Nº 18543

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1840 KB Formation Lansing KC Eff. Pay — Ft.

District GT. Bend Date 5-2-93 Customer Order No. —

COMPANY NAME Hamp Oil Company 74604

ADDRESS P.O. Box 391 Ponca City, Oklahoma 74602-0391

LEASE AND WELL NO. Spangenberg #A-1 COUNTY Stafford STATE Ks Sec. 26 Twp. 22 S Rge. 12 W

Mail Invoice To Same Co. Name #A-1 Spangenberg Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 3394 ft. to 3411 ft. Total Depth 3411 ft.

Packer Depth 3389 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3394 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3399 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 3396 ft. Recorder Number 13550 Cap. 4125

Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor White & Ellis Rig 8 Drill Collar Length — I. D. — in.

Mud Type Chemical Viscosity 44 Weight Pipe Length — I. D. — in.

Weight 9.1 Water Loss 10.4 cc. Drill Pipe Length 3374 I. D. 3.8 in.

Chlorides 8,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 17 ft. Size 5 1/2 in.

Did Well Flow? — Reversed Out — Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow IF - Weak Blow Throughout 1" To 2" Blow
FF - Weak Blow Throughout 1 1/2" To 3" Blow

Recovered 115 ft. of GAS in Pipe

Recovered — ft. of —

Recovered 5 ft. of Slightly oil & gas cut mud
2% gas 3% oil 95% mud

Recovered — ft. of —

Recovered — ft. of —

Chlorides — P.P.M. Sample Jars used 1 Remarks:

MAY 11 1993

Time On Location 4:30 A.M. (P.M.) Time Pick Up Tool 6:00 A.M. (P.M.) Time Off Location 12:30 A.M. (P.M.)

Time Set Packer(s) 7:10 A.M. (P.M.) Time Started Off Bottom 10:40 A.M. (P.M.) Maximum Temperature 106°

Initial Hydrostatic Pressure			(A) 1661	P.S.I.		
Initial Flow Period	Minutes 30	(B) 20	P.S.I. to	(C) 20	P.S.I.	
Initial Closed In Period	Minutes 60	(D) 93	P.S.I.			
Final Flow Period	Minutes 60	(E) 20	P.S.I. to	(F) 20	P.S.I.	
Final Closed In Period	Minutes 60	(G) 72	P.S.I.			
Final Hydrostatic Pressure			(H) 1651	P.S.I.		

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By James R. Hall A
Signature of Customer or his authorized representative

Western Representative Ray Schwager Hank 404

FIELD INVOICE

Open Hole Test	$
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$
Telecopier	$
TOTAL	$

WESTERN TESTING CO., INC.

Pressure Data

Date 5-7-92 Test Ticket No. 18542

Recorder No. 10470 Capacity Location

Clock No. Elevation Well Temperature

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1701	P.S.I.	Open Tool	M	
B	First Initial Flow Pressure	28	P.S.I.	First Flow Pressure	Mins. 30	Mi
C	First Final Flow Pressure	28	P.S.I.	Initial Closed-in Pressure	Mins. 60	Mi
D	Initial Closed-in Pressure	109	P.S.I.	Second Flow Pressure	Mins. 60	Mi
E	Second Initial Flow Pressure	27	P.S.I.	Final Closed-in Pressure	Mins. 60	Mi
F	Second Final Flow Pressure	30	P.S.I.			
G	Final Closed-in Pressure	28	P.S.I.			
H	Final Hydrostatic Mud	1657	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	28
P 2	5	
P 3	10	
P 4	15	
P 5	20	
P 6	25	
P 7	30	28
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14	65	
P15	70	
P16	75	
P17	80	
P18	85	
P19	90	
P20	95	
	100	

Initial Shut-In

Breakdown: Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	28
3	31
6	34
9	37
12	39
15	42
18	46
21	50
24	54
27	58
30	62
33	68
36	72
39	76
42	80
45	85
48	90
51	95
54	100
57	104
60	109

Second Flow Pressure

Breakdown: Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	27
5	
10	
15	
20	
25	
30	22
35	28
40	29
45	30
50	
55	
60	30
65	
70	
75	
80	
85	
90	
95	
100	

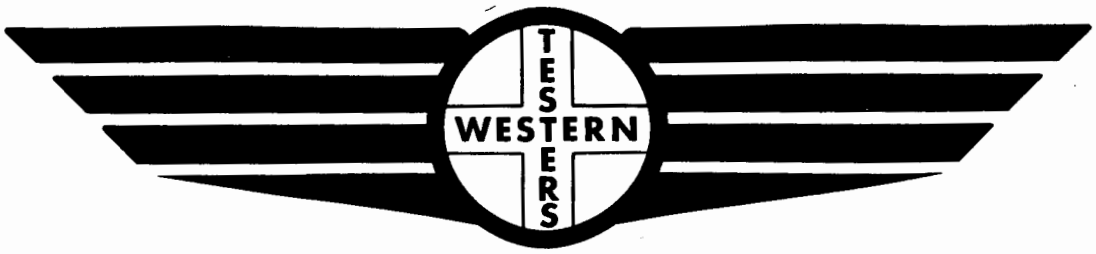
Final Shut-In

Breakdown: Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	30
3	30
6	31
9	32
12	35
15	38
18	41
21	44
24	47
27	50
30	54
33	57
36	62
39	68
42	69
45	71
48	73
51	75
54	76
57	77
60	78

COMPANY HAMP OIL LEASE & WELL NO. #A-1 SPANGENBERG SEC. 26 TWP. 22S RGE. 12W TEST NO. 1 DATE 5/7/93

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone **1-800-688-7021**

DST REPORT

GENERAL INFORMATION

DATE	: 5/7/93			TICKET	: 18543
CUSTOMER	: HAMP OIL			LEASE	: SPANGENBERG
WELL	: #A-1	TEST:	1	GEOLOGIST	: CRAIG
ELEVATION	: 1840 KB			FORMATION	: LANSING KC
SECTION	: 26			TOWNSHIP	: 22S
RANGE	: 12W	COUNTY:	STAFFORD	STATE	: KS
GAUGE SN#	: 10270	RANGE :	4150	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3394.00 ft TO: 3411.00 ft TVD: 3411.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3399.0 ft 3396.0 ft
TEMPERATURE: 106.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3374.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	17.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	3389.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3394.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON.	: WHITE & ELLIS RIG 8		
MUD TYPE	: CHEMICAL	VISCOSITY :	44.00 cp
WEIGHT	: 9.100 ppg	WATER LOSS:	10.400 cc
CHLORIDES	: 8000 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?	: NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW THROUGHOUT - 1 TO 2 INCH BLOW. FINAL FLOW PERIOD WEAK BLOW THROUGHOUT 1 1/2 TO 3 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	3.0	2.0	0.0	95.0	SLI OIL & GAS CUT MUD
0.0	0.0	0.0	0.0	0.0	115 FT GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	0.0021 STB		
GAS VOLUME:	0.0079 SCF	TOTAL FLOW TIME:	90.0000 min.
MUD VOLUME:	0.0666 STB	AVERAGE OIL RATE:	1.0997 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.0687 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1661.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	20.00	20.00
INITIAL SHUT-IN	60.00		93.00
FINAL FLOW	60.00	20.00	20.00
FINAL SHUT-IN	60.00		72.00

FINAL HYDROSTATIC PRESSURE: 1651.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1701.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	28.00	28.00
INITIAL SHUT-IN	60.00		109.00
FINAL FLOW	60.00	27.00	30.00
FINAL SHUT-IN	60.00		78.00

FINAL HYDROSTATIC PRESSURE: 1657.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 5/7/93			TICKET	: 18543
CUSTOMER	: HAMP OIL			LEASE	: SPANGENBERG
WELL	: #A-1	TEST: 1		GEOLOGIST	: CRAIG
ELEVATION	: 1840 KB			FORMATION	: LANSING KC
SECTION	: 26			TOWNSHIP	: 22S
RANGE	: 12W	COUNTY:	STAFFORD	STATE	: KS
GAUGE SN#	: 10270	RANGE :	4150	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	28.00	28.00
5.00	28.00	0.00
10.00	28.00	0.00
15.00	28.00	0.00
20.00	28.00	0.00
25.00	28.00	0.00
30.00	28.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	31.00	31.00	0.00
6.00	34.00	3.00	0.00
9.00	37.00	3.00	0.00
12.00	39.00	2.00	0.00
15.00	43.00	4.00	0.00
18.00	46.00	3.00	0.00
21.00	50.00	4.00	0.00
24.00	54.00	4.00	0.00
27.00	58.00	4.00	0.00
30.00	62.00	4.00	0.00
33.00	68.00	6.00	0.00
36.00	72.00	4.00	0.00
39.00	76.00	4.00	0.00
42.00	80.00	4.00	0.00
45.00	85.00	5.00	0.00
48.00	90.00	5.00	0.00
51.00	95.00	5.00	0.00
54.00	100.00	5.00	0.00
57.00	104.00	4.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	109.00	5.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	27.00	27.00
5.00	27.00	0.00
10.00	27.00	0.00
15.00	27.00	0.00
20.00	27.00	0.00
25.00	27.00	0.00
30.00	27.00	0.00
35.00	28.00	1.00
40.00	29.00	1.00
45.00	30.00	1.00
50.00	30.00	0.00
55.00	30.00	0.00
60.00	30.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	30.00	30.00	0.00
6.00	31.00	1.00	0.00
9.00	33.00	2.00	0.00
12.00	35.00	2.00	0.00
15.00	38.00	3.00	0.00
18.00	41.00	3.00	0.00
21.00	44.00	3.00	0.00
24.00	47.00	3.00	0.00
27.00	50.00	3.00	0.00
30.00	54.00	4.00	0.00
33.00	57.00	3.00	0.00
36.00	63.00	6.00	0.00
39.00	66.00	3.00	0.00
42.00	69.00	3.00	0.00
45.00	71.00	2.00	0.00
48.00	73.00	2.00	0.00

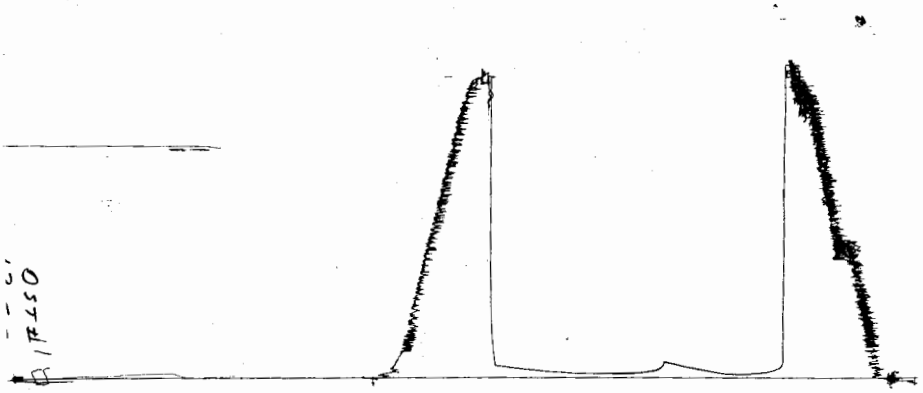
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
51.00	75.00	2.00	0.00
54.00	76.00	1.00	0.00
57.00	77.00	1.00	0.00
60.00	78.00	1.00	0.00

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