

DST REPORT

GENERAL INFORMATION

DATE : 3/30/94
CUSTOMER : A L ABERCROMBIE, INC.
WELL : #2 TEST: 1
ELEVATION: 2717 KB
SECTION : 19
RANGE : 29W COUNTY: MEADE
GAUGE SN#: 4339 RANGE : 4325

TICKET : 20558
LEASE : ESTES
GEOLOGIST: HASTINGS
FORMATION: CHEROKEE
TOWNSHIP : 32S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5458.00 ft TO: 5533.00 ft TVD: 5533.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 5480.0 ft 5483.0 ft
TEMPERATURE: 142.0

DRILL COLLAR LENGTH:	30.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	373.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH :	5027.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	75.0 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:	5453.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5458.0 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. : ABERCROMBIE RIG 5
MUD TYPE : CHEMICAL
WEIGHT : 9.300 ppg
CHLORIDES : 2100 ppm
JARS-MAKE : WTC
DID WELL FLOW?: NO

VISCOSITY : 47.00 cp
WATER LOSS: 11.800 cc
SERIAL NUMBER: 605
REVERSED OUT?: NO

COMMENTS

Comment

GAS TO SURFACE IN 13 MINUTES.
48.7 MCFD THROUGH 1/4 INCH ORIFICE
SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
300.0	50.0	45.0	0.0	5.0	SL MUDDY HVY GAS CUT OIL
150.0	45.0	15.0	0.0	40.0	HEAVY MUD & GAS CUT OIL

RATE INFORMATION

OIL VOLUME:	1.6742	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	7.0324	SCF	AVERAGE OIL RATE:	35.1296	STB/D
MUD VOLUME:	0.5214	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	2.1956	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2722.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	170.00	125.00
INITIAL SHUT-IN	60.00		1733.00
FINAL FLOW	60.00	193.00	193.00
FINAL SHUT-IN	60.00		1690.00

FINAL HYDROSTATIC PRESSURE: 2668.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2705.00

Description	Duration	p1	p End
INITIAL FLOW	35.00	166.00	131.00
INITIAL SHUT-IN	60.00		1738.00
FINAL FLOW	55.00	199.00	197.00
FINAL SHUT-IN	66.00		1700.00

FINAL HYDROSTATIC PRESSURE: 2680.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 3/30/94
 CUSTOMER : A L ABERCROMBIE, INC.
 WELL : #2 TEST: 1
 ELEVATION: 2717 KB
 SECTION : 19
 RANGE : 29W COUNTY: MEADE
 GAUGE SN#: 4339 RANGE : 4325

TICKET : 20558
 LEASE : ESTES
 GEOLOGIST: HASTINGS
 FORMATION: CHEROKEE
 TOWNSHIP : 32S
 STATE : KS
 CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
20 MIN	MERLA	0.250	5 PSIG	20700 SCF/D
25 MIN	MERLA	0.250	6 PSIG	22900 SCF/D
30 MIN	MERLA	0.250	8 PSIG	27000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.250	11 PSIG	32400 SCF/D
20 MIN	MERLA	0.250	13 PSIG	35900 SCF/D
30 MIN	MERLA	0.250	14 PSIG	37600 SCF/D
40 MIN	MERLA	0.250	16 PSIG	40900 SCF/D
50 MIN	MERLA	0.250	19 PSIG	45500 SCF/D
60 MIN	MERLA	0.250	21 PSIG	48700 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 3/30/94	TICKET : 20558
CUSTOMER : A L ABERCROMBIE, INC.	LEASE : ESTES
WELL : #2	GEOLOGIST: HASTINGS
ELEVATION: 2717 KB	FORMATION: CHEROKEE
SECTION : 19	TOWNSHIP : 32S
RANGE : 29W	STATE : KS
GAUGE SN#: 4339	CLOCK : 12
COUNTY: MEADE	
RANGE : 4325	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	166.00	166.00
5.00	166.00	0.00
10.00	150.00	-16.00
15.00	143.00	-7.00
20.00	139.00	-4.00
25.00	134.00	-5.00
30.00	131.00	-3.00
35.00	131.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	448.00	448.00	12.67
6.00	874.00	426.00	6.83
9.00	1161.00	287.00	4.89
12.00	1343.00	182.00	3.92
15.00	1454.00	111.00	3.33
18.00	1521.00	67.00	2.94
21.00	1569.00	48.00	2.67
24.00	1597.00	28.00	2.46
27.00	1622.00	25.00	2.30
30.00	1643.00	21.00	2.17
33.00	1661.00	18.00	2.06
36.00	1673.00	12.00	1.97
39.00	1685.00	12.00	1.90
42.00	1698.00	13.00	1.83
45.00	1708.00	10.00	1.78
48.00	1715.00	7.00	1.73
51.00	1722.00	7.00	1.69
54.00	1729.00	7.00	1.65

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
57.00	1735.00	6.00	1.61
60.00	1738.00	3.00	1.58

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	199.00	199.00
5.00	199.00	0.00
10.00	193.00	-6.00
15.00	188.00	-5.00
20.00	182.00	-6.00
25.00	180.00	-2.00
30.00	180.00	0.00
35.00	182.00	2.00
40.00	185.00	3.00
45.00	188.00	3.00
50.00	193.00	5.00
55.00	197.00	4.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	654.00	654.00	19.33
6.00	949.00	295.00	10.17
9.00	1142.00	193.00	7.11
12.00	1294.00	152.00	5.58
15.00	1385.00	91.00	4.67
18.00	1462.00	77.00	4.06
21.00	1509.00	47.00	3.62
24.00	1543.00	34.00	3.29
27.00	1573.00	30.00	3.04
30.00	1590.00	17.00	2.83
33.00	1610.00	20.00	2.67
36.00	1623.00	13.00	2.53
39.00	1634.00	11.00	2.41
42.00	1649.00	15.00	2.31
45.00	1657.00	8.00	2.22
48.00	1666.00	9.00	2.15

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

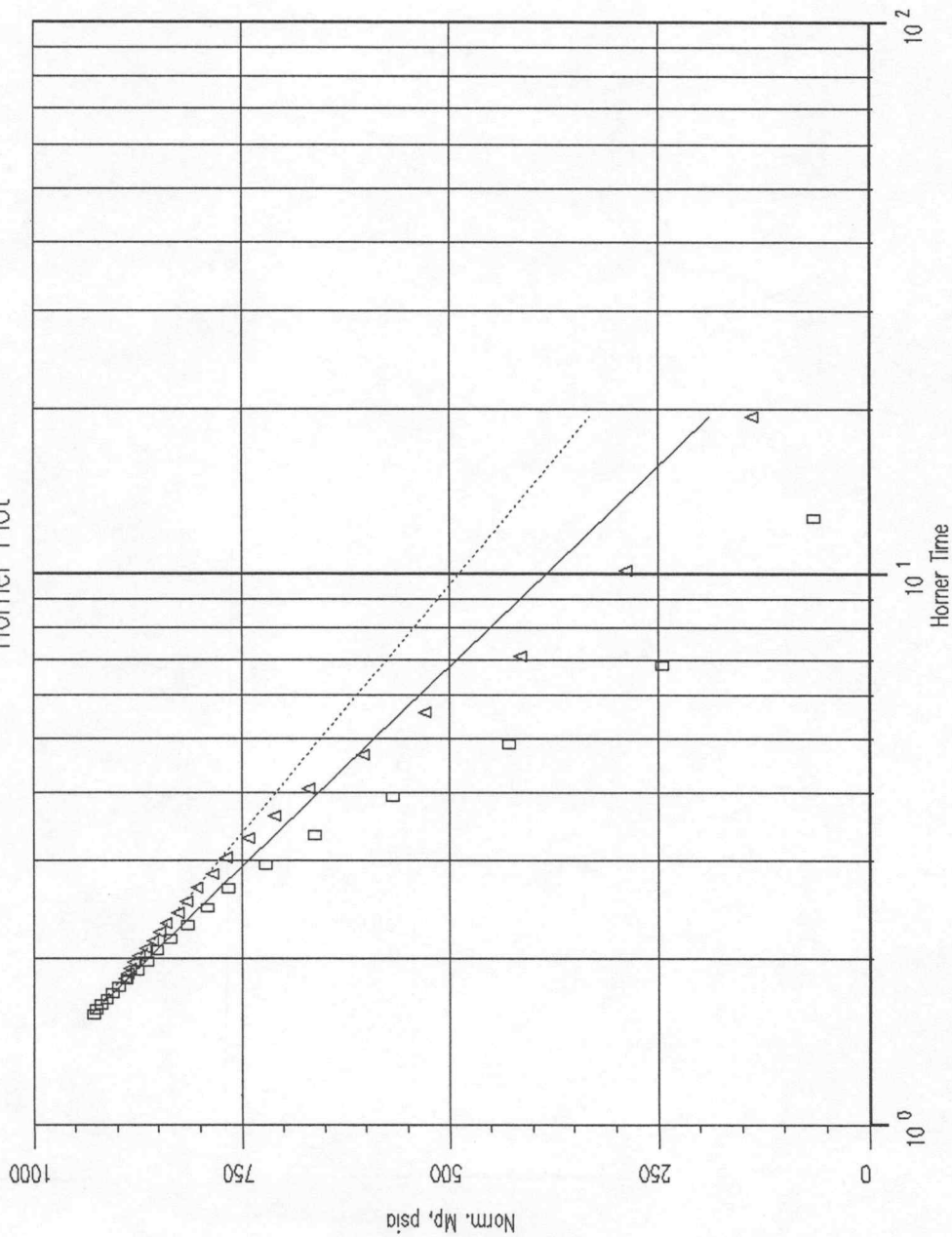
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	1674.00	8.00	2.08
54.00	1683.00	9.00	2.02
57.00	1689.00	6.00	1.96
60.00	1694.00	5.00	1.92
63.00	1697.00	3.00	1.87
66.00	1700.00	3.00	1.83

DATE 3/30/94
 CUSTOMER A L ABERCROMBIE, INC.
 WELL #2
 ELEVATION 2717 KB
 SECTION 19
 RANGE 29W
 GAUGE SN# 4339

TICKET 20558
 LEASE ESTES
 GEOLOGIST HASTINGS
 FORMATION CHEROKEE
 TOWNSHIP 32S
 STATE KS
 CLOCK 12

TEST 1
 COUNTY MEADE
 RANGE 4325

Horner Plot



Result

	#1	#2
tp, hrs	0.58	0.92
Slope	-683.08	-551.13
Pstar, psig	1873.12	1846.78
P1hr, psig	930.94	883.92
Skin	-0.90	-0.88
k, md	0.07	0.08
kh/u, md-ft/cp	17.24	21.36
ri, ft	6.47	9.04
DR, %	0.53	0.59
Drawdown Factor, %	0.022	0.022
Drawdown P*	0.014	0.014

— BUILD 1

..... BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 3/30/94	TICKET : 20558
CUSTOMER : A L ABERCROMBIE, INC.	LEASE : ESTES
WELL : #2 TEST: 1	GEOLOGIST: HASTINGS
ELEVATION: 2717 KB	FORMATION: CHEROKEE
SECTION : 19	TOWNSHIP : 32S
RANGE : 29W	STATE : KS
GAUGE SN#: 4339	CLOCK : 12
COUNTY: MEADE	
RANGE : 4325	

Input Data

Porosity 0.100 Rw: 0.328 ft h: 4.000 ft

qg 48700.0 STB

Pvt Data

Evalutation Pressure : 1738.0
 Evalutation Temperature: 142.0

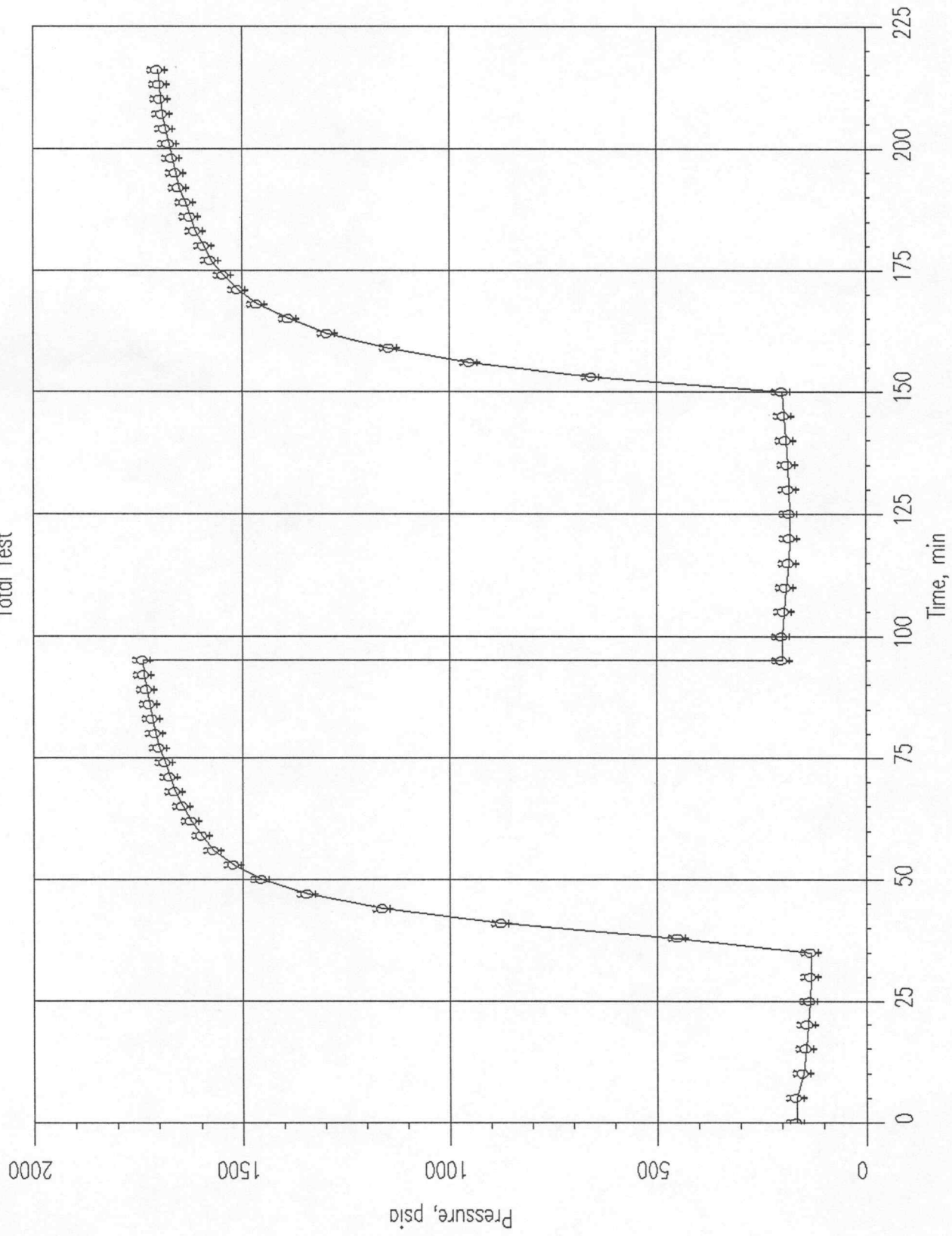
Gas Grav 0.65 API Bg 0.001 RBL/STB Vis 0.016 cp Ct 6.3257E-004 1/PSI

Horner Results

	Inital Shut-In	Final Shut-In
pseudo pressure time	0.58 hrs	0.92 hrs
slope	-683.08	-551.13
pstar	1873.12 psig	1846.78 psig
plhr	930.94 psig	883.92 psig
skin	-0.90	-0.88
permeability	0.07 md	0.08 md
transmisability	17.24 md-ft/cp	21.36 md-ft/cp
radius of investigation	6.47 ft	9.04 ft
Damage-Ratio	0.53 percent	0.59 percent
Drawdown Factor		0.022 percent
Drawdown P*		0.014 percent

Profile Plot

Total Test

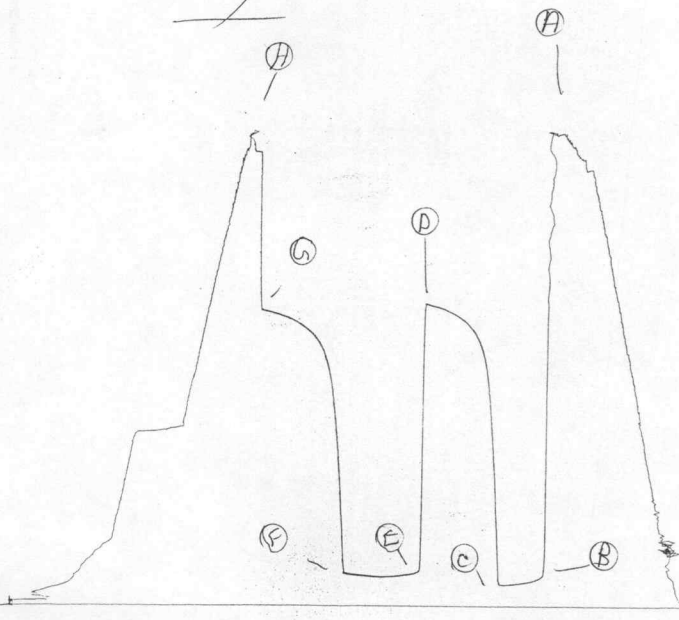


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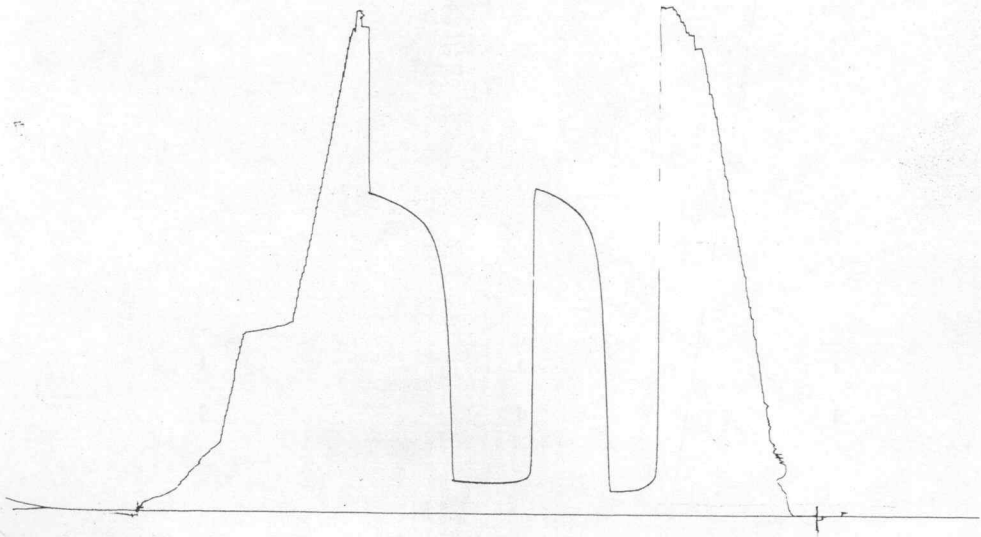


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DST REPORT

GENERAL INFORMATION

DATE : 3/31/94
CUSTOMER : A L ABERCROMBIE, INC.
WELL : #2 TEST: 2
ELEVATION: 2717 KB
SECTION : 19
RANGE : 29W COUNTY: MEADE
GAUGE SN#: 4339 RANGE : 4325

TICKET : 20559
LEASE : ESTES
GEOLOGIST: HASTINGS
FORMATION: L ATOKA/UP MORROW
TOWNSHIP : 32S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5555.00 ft TO: 5595.00 ft TVD: 5595.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 5558.0 ft 5595.0 ft
TEMPERATURE: 141.0

DRILL COLLAR LENGTH:	60.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	373.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH :	5094.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	40.0 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:	5550.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5555.0 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. : ABERCROMBIE RIG 5
MUD TYPE : CHEMICAL
WEIGHT : 0.000 ppg
CHLORIDES : 0 ppm
JARS-MAKE : WTC
DID WELL FLOW?: NO

VISCOSITY : 0.00 cp
WATER LOSS: 0.000 cc

SERIAL NUMBER: 605
REVERSED OUT?: NO

COMMENTS

Comment

GAS TO SURFACE IN 3 MINUTES.
1146 MCFD THROUGH 1 1/4 INCH ORIFICE
SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
100.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	115.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.5783	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.5783	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2679.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	295.00	295.00
INITIAL SHUT-IN	60.00		1863.00
FINAL FLOW	90.00	352.00	352.00
FINAL SHUT-IN	60.00		1863.00

FINAL HYDROSTATIC PRESSURE: 2647.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2677.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	306.00	309.00
INITIAL SHUT-IN	60.00		1876.00
FINAL FLOW	85.00	348.00	348.00
FINAL SHUT-IN	63.00		1868.00

FINAL HYDROSTATIC PRESSURE: 2652.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 3/31/94	TICKET : 20559
CUSTOMER : A L ABERCROMBIE, INC.	LEASE : ESTES
WELL : #2	GEOLOGIST: HASTINGS
ELEVATION: 2717 KB	FORMATION: L ATOKA/UP MORROW
SECTION : 19	TOWNSHIP : 32S
RANGE : 29W	STATE : KS
GAUGE SN#: 4339	CLOCK : 12
COUNTY: MEADE	
RANGE : 4325	

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	1.250	12 PSIG	893000 SCF/D
10 MIN	MERLA	1.250	16 PSIG	1064000 SCF/D
15 MIN	MERLA	1.250	17 PSIG	1105000 SCF/D
20 MIN	MERLA	1.250	18 PSIG	1146000 SCF/D
25 MIN	MERLA	1.250	18 PSIG	1146000 SCF/D
30 MIN	MERLA	1.250	17 PSIG	1105000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.250	13 PSIG	937000 SCF/D
20 MIN	MERLA	1.250	15 PSIG	1023000 SCF/D
30 MIN	MERLA	1.250	15 PSIG	1023000 SCF/D
40 MIN	MERLA	1.250	16 PSIG	1064000 SCF/D
50 MIN	MERLA	1.250	16 PSIG	1064000 SCF/D
60 MIN	MERLA	1.250	17 PSIG	1105000 SCF/D
70 MIN	MERLA	1.250	17 PSIG	1105000 SCF/D
80 MIN	MERLA	1.250	18 PSIG	1146000 SCF/D
90 MIN	MERLA	1.250	18 PSIG	1146000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 3/31/94	TICKET : 20559
CUSTOMER : A L ABERCROMBIE, INC.	LEASE : ESTES
WELL : #2	GEOLOGIST: HASTINGS
ELEVATION: 2717 KB	FORMATION: L ATOKA/UP MORROW
SECTION : 19	TOWNSHIP : 32S
RANGE : 29W	STATE : KS
GAUGE SN#: 4339	CLOCK : 12
COUNTY: MEADE	
RANGE : 4325	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	306.00	306.00
5.00	306.00	0.00
10.00	306.00	0.00
15.00	306.00	0.00
20.00	307.00	1.00
25.00	308.00	1.00
30.00	309.00	1.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1716.00	1716.00	11.00
6.00	1772.00	56.00	6.00
9.00	1797.00	25.00	4.33
12.00	1809.00	12.00	3.50
15.00	1825.00	16.00	3.00
18.00	1837.00	12.00	2.67
21.00	1846.00	9.00	2.43
24.00	1851.00	5.00	2.25
27.00	1856.00	5.00	2.11
30.00	1861.00	5.00	2.00
33.00	1864.00	3.00	1.91
36.00	1866.00	2.00	1.83
39.00	1868.00	2.00	1.77
42.00	1870.00	2.00	1.71
45.00	1871.00	1.00	1.67
48.00	1872.00	1.00	1.63
51.00	1873.00	1.00	1.59
54.00	1874.00	1.00	1.56
57.00	1875.00	1.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1876.00	1.00	1.50

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	348.00	348.00
5.00	348.00	0.00
10.00	348.00	0.00
15.00	348.00	0.00
20.00	348.00	0.00
25.00	348.00	0.00
30.00	348.00	0.00
35.00	348.00	0.00
40.00	348.00	0.00
45.00	348.00	0.00
50.00	348.00	0.00
55.00	348.00	0.00
60.00	348.00	0.00
65.00	348.00	0.00
70.00	348.00	0.00
75.00	348.00	0.00
80.00	348.00	0.00
85.00	348.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1626.00	1626.00	29.33
6.00	1745.00	119.00	15.17
9.00	1784.00	39.00	10.44
12.00	1800.00	16.00	8.08
15.00	1816.00	16.00	6.67
18.00	1826.00	10.00	5.72
21.00	1833.00	7.00	5.05
24.00	1837.00	4.00	4.54
27.00	1844.00	7.00	4.15
30.00	1846.00	2.00	3.83
33.00	1849.00	3.00	3.58

PRESSURE TRANSIENT REPORT (CONTINUED)

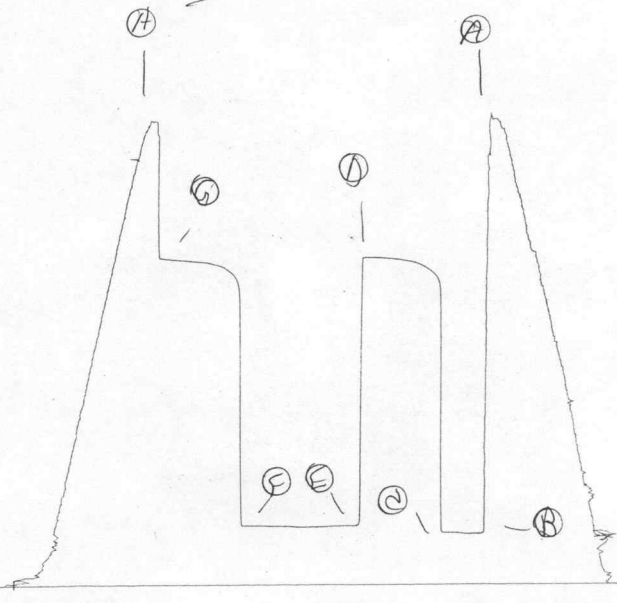
FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
36.00	1852.00	3.00	3.36
39.00	1854.00	2.00	3.18
42.00	1856.00	2.00	3.02
45.00	1858.00	2.00	2.89
48.00	1860.00	2.00	2.77
51.00	1862.00	2.00	2.67
54.00	1864.00	2.00	2.57
57.00	1866.00	2.00	2.49
60.00	1867.00	1.00	2.42
63.00	1868.00	1.00	2.35

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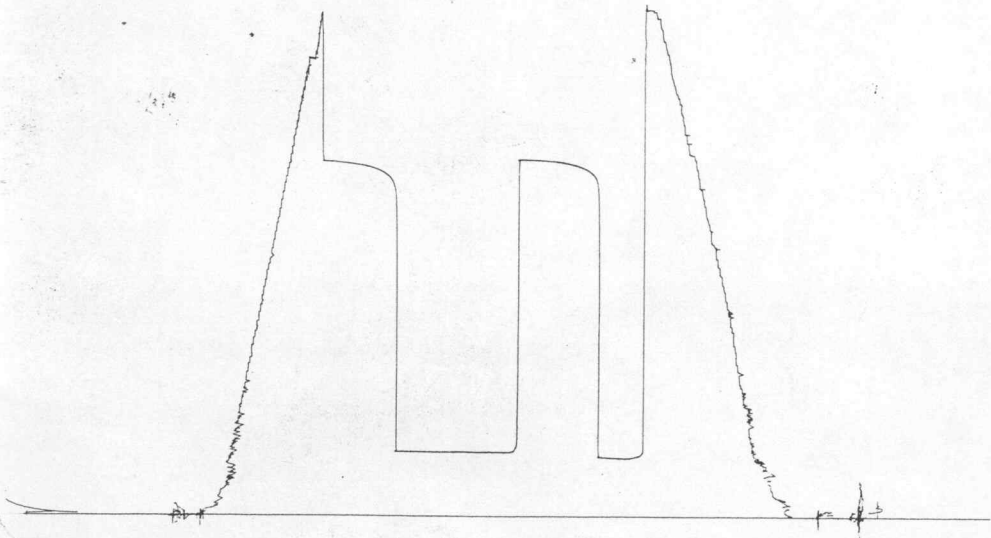
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DST REPORT

GENERAL INFORMATION

DATE	: 3/31/94	TICKET	: 20560
CUSTOMER	: A L ABERCROMBIE, INC.	LEASE	: ESTES
WELL	: #2	TEST:	3
ELEVATION	: 2717 KB	GEOLOGIST	: HASTINGS
SECTION	: 19	FORMATION	: LOWER MORROW
RANGE	: 29W	TOWNSHIP	: 32S
GAUGE SN#	: 4339	STATE	: KS
	COUNTY: MEADE	CLOCK	: 12
	RANGE : 4325		

WELL INFORMATION

PERFORATION INTERVAL FROM:	5596.00 ft	TO:	5621.00 ft	TVD:	5621.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	5599.0 ft		5621.0 ft		
TEMPERATURE:	138.0				
DRILL COLLAR LENGTH:	60.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	373.0 ft	I.D.:		2.700 in	
DRILL PIPE LENGTH :	5135.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	25.0 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:	5691.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	5696.0 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. :	ABERCROMBIE RIG 5	VISCOSITY :	48.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	12.000 cc
WEIGHT :	9.200 ppg		
CHLORIDES :	2000 ppm	SERIAL NUMBER:	605
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

GAS TO SURFACE IN 6 MINUTES.
227 MCFD THROUGH 3/4 INCH ORIFICE.
SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
10.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0492	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0492	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2701.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	136.00	90.00
INITIAL SHUT-IN	60.00		857.00
FINAL FLOW	60.00	147.00	68.00
FINAL SHUT-IN	60.00		845.00

FINAL HYDROSTATIC PRESSURE: 2658.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2701.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	136.00	94.00
INITIAL SHUT-IN	60.00		862.00
FINAL FLOW	60.00	131.00	75.00
FINAL SHUT-IN	63.00		843.00

FINAL HYDROSTATIC PRESSURE: 2661.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 3/31/94	TICKET : 20560
CUSTOMER : A L ABERCROMBIE, INC.	LEASE : ESTES
WELL : #2 TEST: 3	GEOLOGIST: HASTINGS
ELEVATION: 2717 KB	FORMATION: LOWER MORROW
SECTION : 19	TOWNSHIP : 32S
RANGE : 29W COUNTY: MEADE	STATE : KS
GAUGE SN#: 4339 RANGE : 4325	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.250	10 PSIG	30800 SCF/D
20 MIN	MERLA	0.250	25 PSIG	54700 SCF/D
30 MIN	MERLA	0.250	58 PSIG	100900 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.750	6 PSIG	194000 SCF/D
20 MIN	MERLA	0.750	8 PSIG	227000 SCF/D
30 MIN	MERLA	0.750	8 PSIG	227000 SCF/D
40 MIN	MERLA	0.750	8 PSIG	227000 SCF/D
50 MIN	MERLA	0.750	8 PSIG	227000 SCF/D
60 MIN	MERLA	0.750	8 PSIG	227000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 3/31/94	TICKET : 20560
CUSTOMER : A L ABERCROMBIE, INC.	LEASE : ESTES
WELL : #2	GEOLOGIST: HASTINGS
ELEVATION: 2717 KB	FORMATION: LOWER MORROW
SECTION : 19	TOWNSHIP : 32S
RANGE : 29W	STATE : KS
GAUGE SN#: 4339	CLOCK : 12
COUNTY: MEADE	
RANGE : 4325	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	136.00	136.00
5.00	120.00	-16.00
10.00	105.00	-15.00
15.00	98.00	-7.00
20.00	95.00	-3.00
25.00	94.00	-1.00
30.00	94.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	580.00	580.00	11.00
6.00	727.00	147.00	6.00
9.00	761.00	34.00	4.33
12.00	787.00	26.00	3.50
15.00	801.00	14.00	3.00
18.00	813.00	12.00	2.67
21.00	819.00	6.00	2.43
24.00	826.00	7.00	2.25
27.00	830.00	4.00	2.11
30.00	836.00	6.00	2.00
33.00	842.00	6.00	1.91
36.00	847.00	5.00	1.83
39.00	852.00	5.00	1.77
42.00	854.00	2.00	1.71
45.00	856.00	2.00	1.67
48.00	858.00	2.00	1.63
51.00	859.00	1.00	1.59
54.00	860.00	1.00	1.56
57.00	861.00	1.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	862.00	1.00	1.50

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	131.00	131.00
5.00	131.00	0.00
10.00	116.00	-15.00
15.00	105.00	-11.00
20.00	95.00	-10.00
25.00	91.00	-4.00
30.00	89.00	-2.00
35.00	87.00	-2.00
40.00	85.00	-2.00
45.00	83.00	-2.00
50.00	81.00	-2.00
55.00	78.00	-3.00
60.00	75.00	-3.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	430.00	430.00	21.00
6.00	658.00	228.00	11.00
9.00	718.00	60.00	7.67
12.00	745.00	27.00	6.00
15.00	763.00	18.00	5.00
18.00	779.00	16.00	4.33
21.00	786.00	7.00	3.86
24.00	794.00	8.00	3.50
27.00	798.00	4.00	3.22
30.00	807.00	9.00	3.00
33.00	813.00	6.00	2.82
36.00	816.00	3.00	2.67
39.00	819.00	3.00	2.54
42.00	823.00	4.00	2.43
45.00	827.00	4.00	2.33
48.00	831.00	4.00	2.25

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	835.00	4.00	2.18
54.00	838.00	3.00	2.11
57.00	841.00	3.00	2.05
60.00	842.00	1.00	2.00
63.00	843.00	1.00	1.95

DST REPORT

GENERAL INFORMATION

DATE	: 4/2/94	TICKET	: 20561
CUSTOMER	: A L ABERCROMBIE, INC.	LEASE	: ESTES
WELL	: #2	TEST: 4	GEOLOGIST: HASTINGS
ELEVATION	: 2717 KB	FORMATION	: ST LOUIS
SECTION	: 19	TOWNSHIP	: 32S
RANGE	: 29W	STATE	: KS
GAUGE SN#	: 4339	CLOCK	: 12
	COUNTY: MEADE		
	RANGE : 4325		

WELL INFORMATION

PERFORATION INTERVAL FROM:	5963.00 ft	TO:	6023.00 ft	TVD:	6023.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5966.0 ft		6023.0 ft		
TEMPERATURE:	140.0				
DRILL COLLAR LENGTH:	30.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	373.0 ft	I.D.:		2.700 in	
DRILL PIPE LENGTH :	5532.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	60.0 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:	5958.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	5963.0 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. :	ABERCROMBIE RIG 5	VISCOSITY :	46.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.300 cc
WEIGHT :	9.200 ppg		
CHLORIDES :	2100 ppm	SERIAL NUMBER:	605
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK 1/2 INCH BLOW IN BUCKET.
FINAL FLOW PERIOD 1/2 INCH SLOWLY INCREASED TO A
1 1/2 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	2.0	0.0	0.0	98.0	SLIGHTLY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0030	STB		
GAS VOLUME:	0.0000	SCF	TOTAL FLOW TIME:	75.0000 min.
MUD VOLUME:	0.1446	STB	AVERAGE OIL RATE:	2.8325 STB/D
WATER VOLUME:	0.0000	STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.1475	STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2993.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	147.00	90.00
INITIAL SHUT-IN	60.00		611.00
FINAL FLOW	45.00	159.00	102.00
FINAL SHUT-IN	60.00		261.00

FINAL HYDROSTATIC PRESSURE: 2906.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2993.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	136.00	105.00
INITIAL SHUT-IN	63.00		613.00
FINAL FLOW	45.00	150.00	115.00
FINAL SHUT-IN	63.00		272.00

FINAL HYDROSTATIC PRESSURE: 2899.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/2/94	TICKET : 20561
CUSTOMER : A L ABERCROMBIE, INC.	LEASE : ESTES
WELL : #2	GEOLOGIST: HASTINGS
ELEVATION: 2717 KB	FORMATION: ST LOUIS
SECTION : 19	TOWNSHIP : 32S
RANGE : 29W	STATE : KS
GAUGE SN#: 4339	CLOCK : 12
COUNTY: MEADE	
RANGE : 4325	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	136.00	136.00
5.00	136.00	0.00
10.00	127.00	-9.00
15.00	118.00	-9.00
20.00	110.00	-8.00
25.00	107.00	-3.00
30.00	105.00	-2.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	105.00	105.00	11.00
6.00	105.00	0.00	6.00
9.00	106.00	1.00	4.33
12.00	107.00	1.00	3.50
15.00	110.00	3.00	3.00
18.00	118.00	8.00	2.67
21.00	129.00	11.00	2.43
24.00	138.00	9.00	2.25
27.00	147.00	9.00	2.11
30.00	159.00	12.00	2.00
33.00	175.00	16.00	1.91
36.00	190.00	15.00	1.83
39.00	216.00	26.00	1.77
42.00	243.00	27.00	1.71
45.00	276.00	33.00	1.67
48.00	322.00	46.00	1.63
51.00	381.00	59.00	1.59
54.00	429.00	48.00	1.56
57.00	500.00	71.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	567.00	67.00	1.50
63.00	613.00	46.00	1.48

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	150.00	150.00
5.00	150.00	0.00
10.00	136.00	-14.00
15.00	133.00	-3.00
20.00	125.00	-8.00
25.00	119.00	-6.00
30.00	115.00	-4.00
35.00	113.00	-2.00
40.00	114.00	1.00
45.00	115.00	1.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	115.00	115.00	16.00
6.00	116.00	1.00	8.50
9.00	116.00	0.00	6.00
12.00	117.00	1.00	4.75
15.00	119.00	2.00	4.00
18.00	124.00	5.00	3.50
21.00	131.00	7.00	3.14
24.00	138.00	7.00	2.88
27.00	146.00	8.00	2.67
30.00	154.00	8.00	2.50
33.00	160.00	6.00	2.36
36.00	168.00	8.00	2.25
39.00	177.00	9.00	2.15
42.00	189.00	12.00	2.07
45.00	198.00	9.00	2.00
48.00	210.00	12.00	1.94
51.00	219.00	9.00	1.88
54.00	233.00	14.00	1.83

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
57.00	244.00	11.00	1.79
60.00	257.00	13.00	1.75
63.00	272.00	15.00	1.71

DST REPORT

GENERAL INFORMATION

DATE : 4/3/94
CUSTOMER : A L ABERCROMBIE, INC.
WELL : #2 TEST: 5
ELEVATION: 2717 KB
SECTION : 19
RANGE : 29W COUNTY: MEADE
GAUGE SN#: 4339 RANGE : 4325

TICKET : 20562
LEASE : ESTES
GEOLOGIST: HASTINGS
FORMATION: ST LOUIS
TOWNSHIP : 32S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 6079.00 ft TO: 6102.00 ft TVD: 6102.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 6089.0 ft 6092.0 ft
TEMPERATURE: 140.0

DRILL COLLAR LENGTH:	60.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	373.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH :	5618.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	23.0 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:	6074.0 ft	SIZE:	6.630 in
PACKER DEPTH:	6079.0 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. : ABERCROMBIE RIG 5
MUD TYPE : CHEMICAL
WEIGHT : 9.200 ppg
CHLORIDES : 2200 ppm
JARS-MAKE : WTC
DID WELL FLOW?: NO

VISCOSITY : 48.00 cp
WATER LOSS: 8.400 cc

SERIAL NUMBER: 605
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK 1/2 INCH BLOW IN BUCKET.
FINAL FLOW PERIOD NO BLOW - FLUSHED TOOL - SLIGHT
SURGE IN BUCKET - NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	65.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0738	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0738	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 3004.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	113.00	79.00
INITIAL SHUT-IN	60.00		1820.00
FINAL FLOW	30.00	147.00	102.00
FINAL SHUT-IN	60.00		1777.00

FINAL HYDROSTATIC PRESSURE: 2971.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 3013.00

Description	Duration	p1	p End
INITIAL FLOW	35.00	116.00	80.00
INITIAL SHUT-IN	60.00		1823.00
FINAL FLOW	30.00	136.00	102.00
FINAL SHUT-IN	60.00		1781.00

FINAL HYDROSTATIC PRESSURE: 2985.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/3/94
 CUSTOMER : A L ABERCROMBIE, INC.
 WELL : #2 TEST: 5
 ELEVATION: 2717 KB
 SECTION : 19
 RANGE : 29W COUNTY: MEADE
 GAUGE SN#: 4339 RANGE : 4325

TICKET : 20562
 LEASE : ESTES
 GEOLOGIST: HASTINGS
 FORMATION: ST LOUIS
 TOWNSHIP : 32S
 STATE : KS
 CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	116.00	116.00
5.00	99.00	-17.00
10.00	89.00	-10.00
15.00	85.00	-4.00
20.00	82.00	-3.00
25.00	80.00	-2.00
30.00	80.00	0.00
35.00	80.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	559.00	559.00	0.00
6.00	1006.00	447.00	0.00
9.00	1281.00	275.00	0.00
12.00	1418.00	137.00	0.00
15.00	1500.00	82.00	0.00
18.00	1562.00	62.00	0.00
21.00	1604.00	42.00	0.00
24.00	1638.00	34.00	0.00
27.00	1666.00	28.00	0.00
30.00	1692.00	26.00	0.00
33.00	1714.00	22.00	0.00
36.00	1734.00	20.00	0.00
39.00	1752.00	18.00	0.00
42.00	1771.00	19.00	0.00
45.00	1784.00	13.00	0.00
48.00	1796.00	12.00	0.00
51.00	1804.00	8.00	0.00
54.00	1813.00	9.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
57.00	1817.00	4.00	0.00
60.00	1823.00	6.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	136.00	136.00
5.00	114.00	-22.00
10.00	141.00	27.00
15.00	123.00	-18.00
20.00	111.00	-12.00
25.00	106.00	-5.00
30.00	102.00	-4.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	806.00	806.00	0.00
6.00	1174.00	368.00	0.00
9.00	1342.00	168.00	0.00
12.00	1441.00	99.00	0.00
15.00	1506.00	65.00	0.00
18.00	1552.00	46.00	0.00
21.00	1586.00	34.00	0.00
24.00	1615.00	29.00	0.00
27.00	1642.00	27.00	0.00
30.00	1664.00	22.00	0.00
33.00	1681.00	17.00	0.00
36.00	1697.00	16.00	0.00
39.00	1713.00	16.00	0.00
42.00	1726.00	13.00	0.00
45.00	1741.00	15.00	0.00
48.00	1753.00	12.00	0.00
51.00	1763.00	10.00	0.00
54.00	1771.00	8.00	0.00
57.00	1777.00	6.00	0.00
60.00	1781.00	4.00	0.00

DST REPORT

GENERAL INFORMATION

DATE : 4/5/94
 CUSTOMER : A L ABERCROMBIE, INC.
 WELL : #2 TEST: 6
 ELEVATION: 2717 KB
 SECTION : 19
 RANGE : 29W COUNTY: MEADE
 GAUGE SN#: 4339 RANGE : 4325

TICKET : 20563
 LEASE : ESTES
 GEOLOGIST: HASTINGS
 FORMATION: ATOKA
 TOWNSHIP : 32S
 STATE : KS
 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5548.00 ft TO: 5566.00 ft TVD: 6150.0 ft
 DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
 DEPTH OF RECORDERS: 5558.0 ft 5561.0 ft
 TEMPERATURE: 137.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	311.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH :	5209.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	18.0 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:	5543.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5548.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5566.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : ABERCROMBIE RIG 5
 MUD TYPE : CHEMICAL
 WEIGHT : 9.200 ppg
 CHLORIDES : 2200 ppm
 JARS-MAKE : WTC
 DID WELL FLOW?: NO

VISCOSITY : 48.00 cp
 WATER LOSS: 8.400 cc

SERIAL NUMBER: 605
 REVERSED OUT?: NO

COMMENTS

Comment

GAS TO SURFACE IN 3 MINUTES.
 569 MCFD THROUGH 3/4 INCH ORIFICE
 SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
140.0	0.0	20.0	0.0	80.0	DRILLING MUD-GAS CUT

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	1.1133	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.7931	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.7931	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2733.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	136.00	159.00
INITIAL SHUT-IN	60.00		1902.00
FINAL FLOW	30.00	227.00	193.00
FINAL SHUT-IN	60.00		1896.00

FINAL HYDROSTATIC PRESSURE: 2722.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2753.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	150.00	161.00
INITIAL SHUT-IN	63.00		1915.00
FINAL FLOW	30.00	217.00	200.00
FINAL SHUT-IN	39.00		1913.00

FINAL HYDROSTATIC PRESSURE: 2734.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 4/5/94 CUSTOMER : A L ABERCROMBIE, INC. WELL : #2 ELEVATION: 2717 KB SECTION : 19 RANGE : 29W GAUGE SN#: 4339	TEST: 6 COUNTY: MEADE RANGE : 4325 TICKET : 20563 LEASE : ESTES GEOLOGIST: HASTINGS FORMATION: ATOKA TOWNSHIP : 32S STATE : KS CLOCK : 12
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PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.500	26 PSIG	211000 SCF/D
15 MIN	MERLA	0.500	40 PSIG	285000 SCF/D
20 MIN	MERLA	0.500	50 PSIG	337000 SCF/D
25 MIN	MERLA	0.500	60 PSIG	388000 SCF/D
30 MIN	MERLA	0.500	67 PSIG	424000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.750	18 PSIG	370000 SCF/D
20 MIN	MERLA	0.750	31 PSIG	534000 SCF/D
30 MIN	MERLA	0.750	34 PSIG	569000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/5/94
 CUSTOMER : A L ABERCROMBIE, INC.
 WELL : #2 TEST: 6
 ELEVATION: 2717 KB
 SECTION : 19
 RANGE : 29W COUNTY: MEADE
 GAUGE SN#: 4339 RANGE : 4325

TICKET : 20563
 LEASE : ESTES
 GEOLOGIST: HASTINGS
 FORMATION: ATOKA
 TOWNSHIP : 32S
 STATE : KS
 CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	150.00	150.00
5.00	151.00	1.00
10.00	153.00	2.00
15.00	155.00	2.00
20.00	157.00	2.00
25.00	159.00	2.00
30.00	161.00	2.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1672.00	1672.00	11.00
6.00	1811.00	139.00	6.00
9.00	1832.00	21.00	4.33
12.00	1846.00	14.00	3.50
15.00	1854.00	8.00	3.00
18.00	1860.00	6.00	2.67
21.00	1866.00	6.00	2.43
24.00	1871.00	5.00	2.25
27.00	1879.00	8.00	2.11
30.00	1886.00	7.00	2.00
33.00	1893.00	7.00	1.91
36.00	1900.00	7.00	1.83
39.00	1902.00	2.00	1.77
42.00	1903.00	1.00	1.71
45.00	1904.00	1.00	1.67
48.00	1905.00	1.00	1.63
51.00	1907.00	2.00	1.59
54.00	1909.00	2.00	1.56
57.00	1911.00	2.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	1913.00	2.00	1.50
63.00	1915.00	2.00	1.48

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	217.00	217.00
5.00	217.00	0.00
10.00	205.00	-12.00
15.00	200.00	-5.00
20.00	200.00	0.00
25.00	200.00	0.00
30.00	200.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1707.00	1707.00	11.00
6.00	1816.00	109.00	6.00
9.00	1837.00	21.00	4.33
12.00	1848.00	11.00	3.50
15.00	1857.00	9.00	3.00
18.00	1866.00	9.00	2.67
21.00	1872.00	6.00	2.43
24.00	1880.00	8.00	2.25
27.00	1887.00	7.00	2.11
30.00	1896.00	9.00	2.00
33.00	1905.00	9.00	1.91
36.00	1910.00	5.00	1.83
39.00	1913.00	3.00	1.77