

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK JUL 20 1995

APPLICATION TO DRILL  DEEPEN  PLUG BACK   
for an oil well  or gas well

Oil & Gas Council

NAME OF COMPANY OR OPERATOR James K. Anderson, Inc. DATE July 17, 1995

14675 Midway Rd., Ste. 217 Dallas Texas  
Address City State

DESCRIPTION OF WELL AND LEASE			
Name of lease <u>Ball</u>	Well number <u>No. 3</u>	Elevation (ground) <u>890.0</u>	
WELL LOCATION (give footage from section lines) <u>2157</u> ft. from <u>N</u> (S) sec. line <u>2120</u> ft. from (E) <u>W</u> sec. line			
WELL LOCATION Section <u>15</u> Township <u>63N</u> Range <u>40W</u>			County <u>Atchison</u>
Nearest distance from proposed location to property or lease line: <u>500</u> feet		Distance from proposed location to nearest drilling, completed or applied for well on the same lease: <u>300</u> feet	
Proposed depth <u>2800</u>	Drilling contractor, name & address	Rotary or Cable Tools <u>Rotary</u>	Approx. date work will start <u>August 20, 1995</u>
Number of acres in lease <u>120</u>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <u>3</u> Number of abandoned wells on lease: <u>0</u>		
If lease, purchased with one or more wells drilled, from whom purchased: Name <u>N/A</u> Address _____		No. of Wells: producing _____ injection _____ inactive _____ abandoned _____	
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input checked="" type="checkbox"/> Amt. <u>\$40,000</u>			<input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED
Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.			
Proposed casing program:		Approved casing -- To be filled in by State Geologist	
amt. <u>350'</u>	size <u>8 5/8</u>	wt./ft. <u>24#</u>	cem. <u>200sx</u>
<u>2800</u>	<u>4 1/2</u>	<u>10.5</u>	<u>200sx</u>
I, the undersigned, state that I am the <u>Vice-President</u> of the <u>James K. Anderson, Inc.</u> (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.			
Signature: <u>James K. Anderson</u>			

Permit Number: 20047  Drillers log required  Drill stem test info. required if run  
Approval Date: 7-24-95  E-logs required if run  Samples required  
Approved By: James K. Anderson  Core analysis required if run  Samples not required  
Cax

Note. This Permit not transferable to any other person or to any other location.

WATER SAMPLES REQUIRED @ \_\_\_\_\_

Remit two copies to: Missouri Oil and Gas Council  
P.O. Box 250 Rolla, Mo. 65401  
One will be returned for driller's signature

Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.

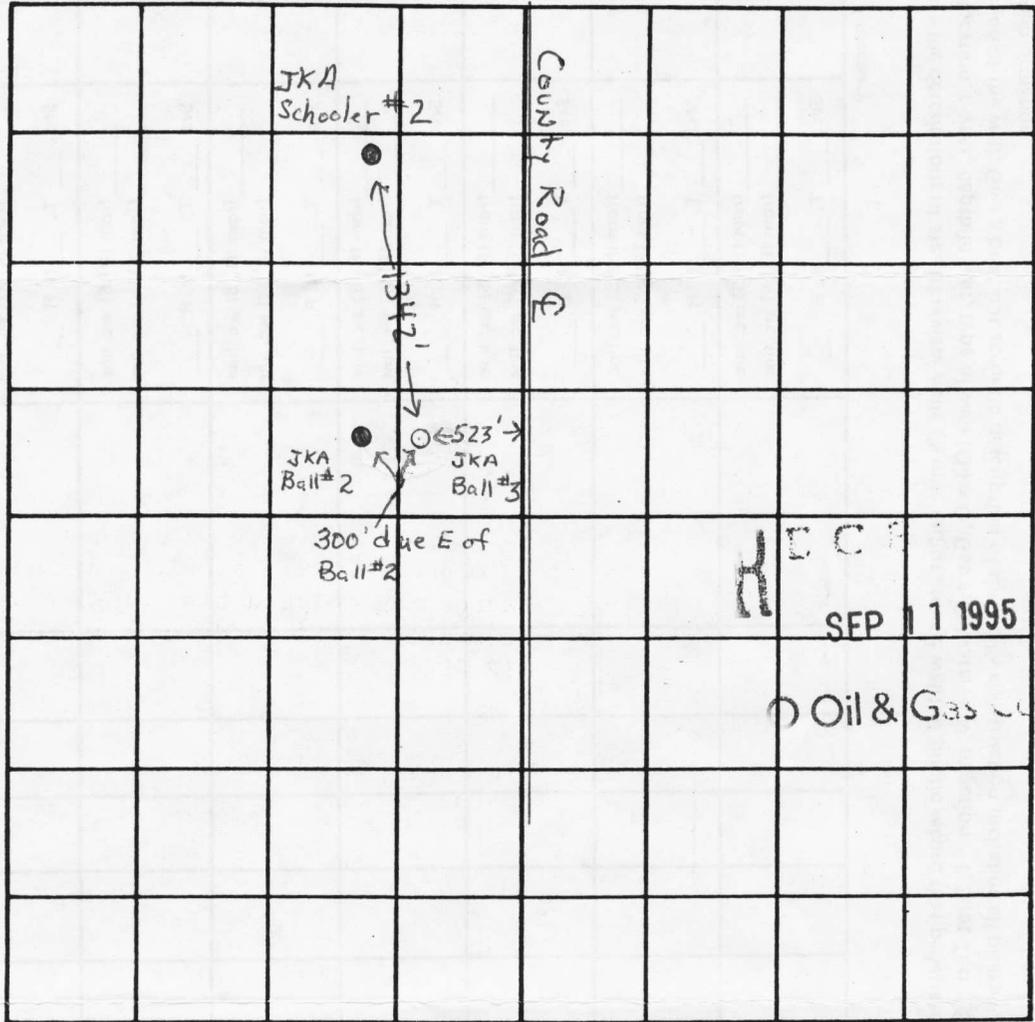
Owner: James K. Anderson, Inc

Lease Name: Ball Well No 3 County: Atchison

2157 feet from N section line and 2120 feet from W section line of Sec. 15, Twp. 63 N., Range 40W  
(N)-(S) (E)-(W)



SCALE  
1" =



REMARKS: Plat submitted in addendum and in lieu of surveyors registered plat. Measured distances from 3 permanent fixtures

**INSTRUCTIONS**

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50:2 030 for survey requirements. Lease lines must be marked.

This is to Certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.

(SEAL)

Remit two copies to: Missouri Oil and Gas Council  
P.O. Box 250, Rolla, MO 65401  
One will be returned.

Robert Kelley Production Engineer JKA, Inc.  
Registered Land Surveyor Number

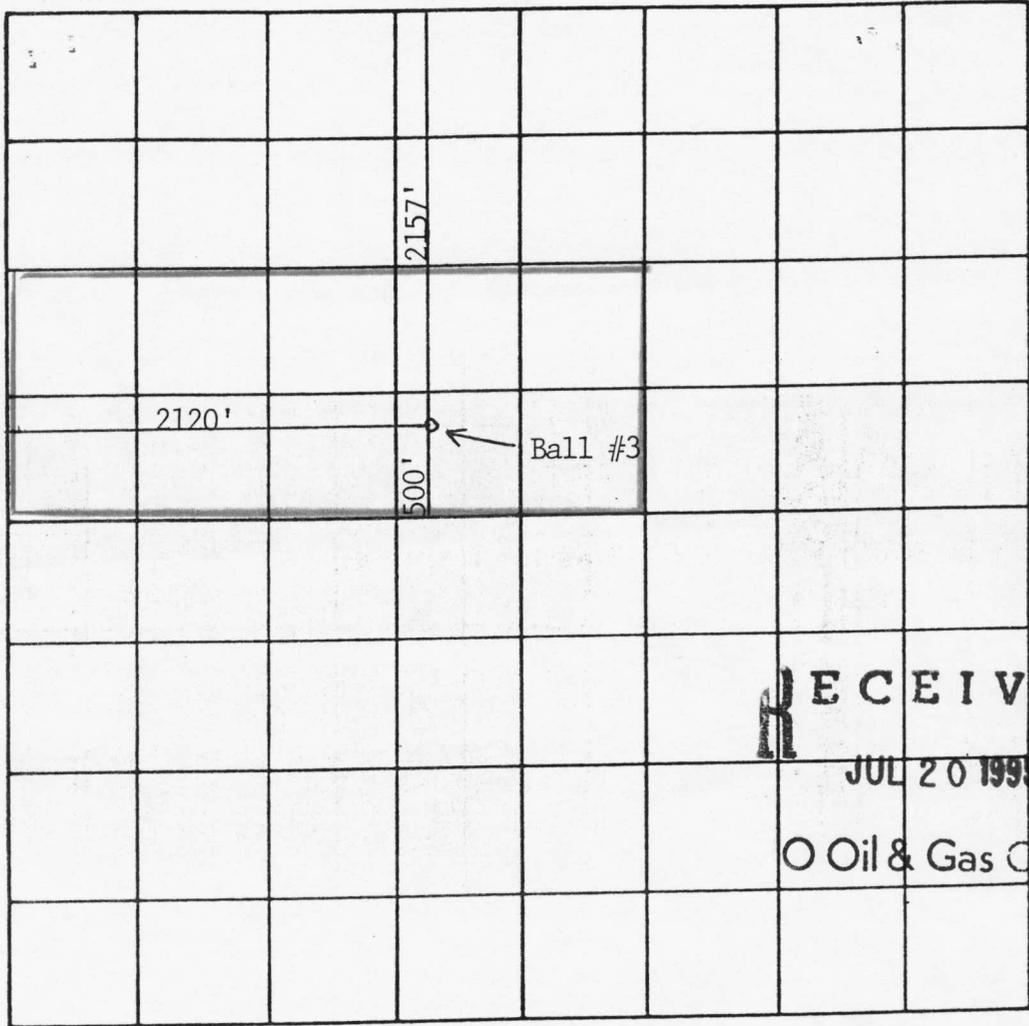
Owner: James K. Anderson, Inc.

Lease Name: Ball County: Atchison

2157 feet from N section line and 2120 feet from W section line of Sec. 15, Twp. 63 N., Range 40W  
(N)-(S) (E)-(W)



SCALE  
1" = 1000'



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JUL 20 1995

Oil & Gas Council

Lease Line \_\_\_\_\_

REMARKS: Ground elevation at proposed well is 890.0

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.

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(SEAL)

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P.O. Box 250, Rolla, MO 65401

One will be returned.

Registered Land Surveyor

Number

NOTICE OF INTENTION TO ABANDON WELL

Name of Lease Ball Date 8/31/95

Well No. 3 is located 2157 feet from (N) (S) section line and 2120

feet from (E) (W) section line of Section 15, Township 63N, Range 40W

Atchison County. The elevation of the ground at well site is 891.5

feet above sea level. Permit number (OGC-3 or OGC-3I number) 20047

Name and address of Contractor or Company which will do work is:

Consolidated Industrial Services, Inc.

Details of Work

(Indicate size, kind, and depth of plugs, where casing will be pulled, other pertinent details)

Surface Casing: 339' 8 5/8" 24# STC set at 341' Ground level and cemented w/ 239  
sks Class 'A' w/ 3% CaCl, circulated 20 sks good cement.

Tops: Base of Glacial Till 312'  
Base of Pennsylvanian 1940'  
Top of Hunton 2183'  
TD 2578'

Proposed Plugging Procedure:

- 35 sks @ 2578'
- 35 sks @ 2200'
- 45 sks @ 1780'
- 45 sks @ 396'
- 23 sks @ 50'
- Cut Off 8 5/8" @ 5'

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SEP. 12. 1995

NOV 14 1995

Missouri Oil & Gas Council

CERTIFICATE: I, the undersigned, state that I am the Production Engineer of the James K. Anderson, Inc. (company), and that I am authorized to make this report; and that this report was prepared under my supervision and direction and that the facts stated herein are true, correct, and complete to the best of my knowledge.

Signature

*Robert Kelley*

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P.O. Box 250, Rolla, MO 65401  
One will be returned.

## NOTICE OF INTENTION TO ABANDON WELL

Name of Lease Ball Date 8/31/95Well No. 3 is located 2157 feet from (N) (S) section line and 2120feet from (E) (W) section line of Section 15, Township 63N, Range 40WAtchison County. The elevation of the ground at well site is 891.5feet above sea level. Permit number (OGC-3 or OGC-3I number) 20047

Name and address of Contractor or Company which will do work is:

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(Indicate size, kind, and depth of plugs, where casing will be pulled, other pertinent details)

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Base of Pennsylvanian 1940'  
Top of Hunton 2183'  
TD 2578'RECEIVED  
SEP 11 1995

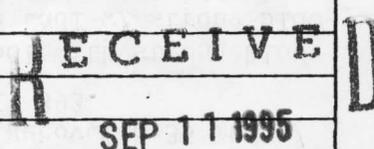
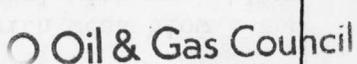
Proposed Plugging Procedure:

35 sks @ 2578'  
35 sks @ 2200'  
45 sks @ 1780'  
45 sks @ 396'  
23 sks @ 50'  
Cut Off 8 5/8" @ 5'

Oil &amp; Gas Council

CERTIFICATE: I, the undersigned, state that I am the Production Engineer of the James K. Anderson, Inc. (company), and that I am authorized to make this report; and that this report was prepared under my supervision and direction and that the facts stated herein are true, correct, and complete to the best of my knowledge.Signature Robert KelleyRemit two copies to: Missouri Oil and Gas Council  
P.O. Box 250, Rolla, MO 65401  
One will be returned.

PLUGGING RECORD

Owner James K. Anderson, Inc.		Address 14675 Midway Rd., Suite 217 Dallas, Texas 75244			
Name of Lease Ball		Well No. 3	Permit Number (OGC-3 or OGC-3I number) 20047		
Location of Well 2157' FNL & 2120' FWL		Sec-Twp-Rng or Block & Survey 12-63N-40W		County Atchison	
Application to drill this well was filed in name of James K. Anderson, Inc.		Has this well ever produced oil or gas? No	Character of well at completion (initial production) Oil (bbls/day)		Dry? Dry
Date Abandoned 8/28/95	Total depth 2578'	Amount well producing prior to abandonment Oil (bbls/day)		Gas (MCF/day) NA	
Name of each formation containing oil or gas. Indicate which formation open to well bore at time of abandonment.		Fluid content of each formation		Depth interval of each formation	Size, kind, & depth of plugs used. Indicate zones squeeze cemented, giving amount cement.
Base Glacial Till		Fresh Water		Surface 312	90 sks 396'-64'
Surface Plug					25 sks 50'-Surface
T Mississippi		Salt Water		1780	45 sks 1780'-1614'
Top Hunton		Salt Water		2183'-2578' TD	35 sks 2200'-2070'
Middle Hunton		Salt Water		2578' TD	35 sks 2578'-2448'
Size pipe	Put in well (ft)	Pulled out (ft)	Left in well (ft)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
8 5/8"	339'	5'	334'	Cut off	Set @ 341' GL
Was well filled with mud-laden fluid? Yes			Indicate deepest formation containing fresh water. 312' Glacial Till		
 					
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name Mrs. Betty Schooler		Address 105 N. Fame Craig, Mo.		Direction from this well: Adjacent to N,E,&W line of Ball Lease	
Mr. Wilbur Wright		RR Fairfax, MO.		Adjacent to S line of Lease	
Method of disposal of mud pit contents: Natural Remediation of Fresh Water Mud - Earth Farm & Burial					
Use reverse side for additional detail. File this form in duplicate with					
CERTIFICATE: I, the undersigned, state that I am the <u>Production Engineer</u> of the <u>James K. Anderson, Inc.</u> (Company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.					
				Signature <u>Robert Kelley</u>	

Remit two copies to: Missouri Oil and Gas Council  
P.O. Box 250, Rolla, MO 65401

One will be returned.

3/12/82

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description (See * below)
Glacial Till	Surf	312'	Glacial Till
Lansing / Kansas City	580 930	930' 1340'	Interbedded Limes & Shales Shale
T/Cherokee	1340	1780'	Sands & Shale
Mississippi	1780	1940'	Lime
Kindershook Shale	1940	2183'	Shale
Hunton	2183	2578' TD	DST 2179'-94' (Hunton). Open tool with weak blow throughout 15 min preflow, reopen tool with weak blow which died 27 min into 2nd flow. Recovered 35 mud w/ trace of oil, 1st SIP 893, 2nd SIP 893.  DST 2195'-2205' (Hunton). Open tool with strong blow throughout 15 min preflow. Reopen tool w/ strong blow decreasing to good blow at end of 30 min 2nd flow, recovered 2000' muddy salt water. 1st SIP 894, 2nd SIP 894.

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\*Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

**INSTRUCTIONS:**

Attach driller's log or other acceptable log of well if available

This Well Completion or Recompletion report and well log shall be filed with the Missouri State Geologist not later than 30 days after project completion.

PLUGGING RECORD

Owner James K. Anderson, Inc.		Address 14675 Midway Rd., Suite 217 Dallas, Texas 75244			
Name of Lease Ball		Well No. 3	Permit Number (OGC-3 or OGC-3I number) 20047		
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Date Abandoned 8/28/95	Total depth 2578'	Amount well producing prior to abandonment Oil (bbls/day)		Water (bbls/day) NA	
Name of each formation containing oil or gas. Indicate which formation open to well bore at time of abandonment.		Fluid content of each formation		Depth interval of each formation	Size, kind, & depth of plugs used. Indicate zones squeeze cemented, giving amount cement.
Base Glacial Till		Fresh Water		Surface 312	90 sks 396'-64'
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8 5/8"	339'	5'	334'	Cut off	Set @ 341' GL
<b>RECEIVED</b>					
<b>SEP 12 1995</b>					
Was well filled with mud-laden fluid? Yes		Indicate deepest formation containing fresh water. 312' Glacial Till			
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Use reverse side for additional detail.					
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Oil & Gas Council				Signature <u>Robert Kelley</u>	



# James K. Anderson, Inc.

14675 MIDWAY ROAD, SUITE 217 DALLAS, TEXAS 75244 214/387-8200  
PETROLEUM EXPLORATION, PRODUCTION, OPERATION, AND DEVELOPMENT

July 18, 1995

Mr. Evan Kifer  
Missouri Oil and Gas Council  
P.O. Box 250  
Rolla, Mo. 65401

RE: Ball #3  
Runamuck Field  
Atchison Co., Missouri

Dear Evan,

In reference to the above captioned well please find enclosed herewith the following:

- 1) Two copies of Application for Permit to Drill, Deepen or Plug Back.
- 2) Two copies of attached plat showing the location of the proposed well.
- 3) Copy of Runamuck field map showing the location of all our wells.

Evan, we are permitting the well to depth of 2800; however we hope to complete the well in the Hunton at a depth of 2200 feet. We would then recompleate our Ball #2 in the Viola.

I hope that the plat I have submitted is satisfactory. If there are any questions or problems relative to said map or application please don't hesitate to call me.

There is a possibility that after we have finished drilling the Ball #3 we would want to skid the rig and drill the Ball #4 immediately thereafter. Would there be a problem getting an oral approval so as not to hold up the rig? Please let me know your thoughts on that subject. We appreciate your consideration.

Sincerely,

JAMES K. ANDERSON, INC.

James R. Anderson

JRA:ac

/enclosures

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JUL 20 1995

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James F. Anderson  
Ball

Bob Kelby

T.D 2578' 7 7/8" dia

8 5/8" surf 346'

Prep abd - lost circ

Procedure 75'

Set 35 Sacks Cut Seal Cement  
@ 2578'  
35 sacks @ Top of Humboldt Fm  
2200'

L.C. # 1740'

plug 45 sack plug  
@ 1740'

45 sacks cement @ 396'

50' below surf casing

(top 50' surf) 20'-5' to sack plug

Consolidated Pump Service part of Kansas

DST REPORT

GENERAL INFORMATION

DATE : 8-25-95 TICKET : 21072  
CUSTOMER : JAMES K. ANDERSON, INC LEASE : BALL  
WELL : #3 TEST: 1 GEOLOGIST: ANDERSON  
ELEVATION: N/A FORMATION: HUNTON  
SECTION : 15 TOWNSHIP : 63N  
RANGE : 40W COUNTY: ATCHISON STATE : MI  
GAUGE SN#: 10271 RANGE : 4150 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2179.00 ft TO: 2194.00 ft TVD: 2194.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 2183.0 ft 2186.0 ft  
TEMPERATURE: 104.0

DRILL COLLAR LENGTH: 360.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 1792.0 ft I.D.: 2.700 in  
TEST TOOL LENGTH : 27.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 15.0 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 : 3.5XH  
PACKER DEPTH: 2174.0 ft SIZE: 6.630 in  
PACKER DEPTH: 2179.0 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. : SUMMIT DRILLING #1  
MUD TYPE : CHEMICAL VISCOSITY : 40.00 cp  
WEIGHT : 9.200 ppg WATER LOSS: 0.000 cc  
CHLORIDES : 0 ppm  
JARS-MAKE : WTC SERIAL NUMBER: 422  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD-WEAK BLOW THROUGHOUT-1/2 INCH  
BLOW. FINAL FLOW PERIOD-WEAK BLOW DIED IN 27  
MINUTES. FLUSHED TOOL.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
35.0	6.0	0.0	0.0	94.0	OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0103 STB	TOTAL FLOW TIME:	45.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	5.5076 STB/D
MUD VOLUME:	0.1618 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.1721 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1060.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	20.00	20.00
INITIAL SHUT-IN	30.00		863.00
FINAL FLOW	30.00	31.00	31.00
FINAL SHUT-IN	30.00		863.00

FINAL HYDROSTATIC PRESSURE: 1060.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1103.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	16.00	22.00
INITIAL SHUT-IN	30.00		885.00
FINAL FLOW	30.00	37.00	41.00
FINAL SHUT-IN	30.00		884.00

FINAL HYDROSTATIC PRESSURE: 1065.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 8-25-95	TICKET	: 21072
CUSTOMER	: JAMES K. ANDERSON, INC	LEASE	: BALL
WELL	: #3	TEST:	: 1
ELEVATION:	N/A	GEOLOGIST:	ANDERSON
SECTION	: 15	FORMATION:	HUNTON
RANGE	: 40W	COUNTY:	ATCHISON
GAUGE SN#:	10271	RANGE	: 4150
		STATE	: MI
		CLOCK	: 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	16.00	16.00
5.00	22.00	6.00
10.00	22.00	0.00
15.00	22.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	858.00	858.00	6.00
6.00	875.00	17.00	3.50
9.00	880.00	5.00	2.67
12.00	883.00	3.00	2.25
15.00	883.00	0.00	2.00
18.00	883.00	0.00	1.83
21.00	884.00	1.00	1.71
24.00	885.00	1.00	1.63
27.00	885.00	0.00	1.56
30.00	885.00	0.00	1.50

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	37.00	37.00
5.00	1223.00	1186.00
10.00	37.00	-1186.00
15.00	37.00	0.00

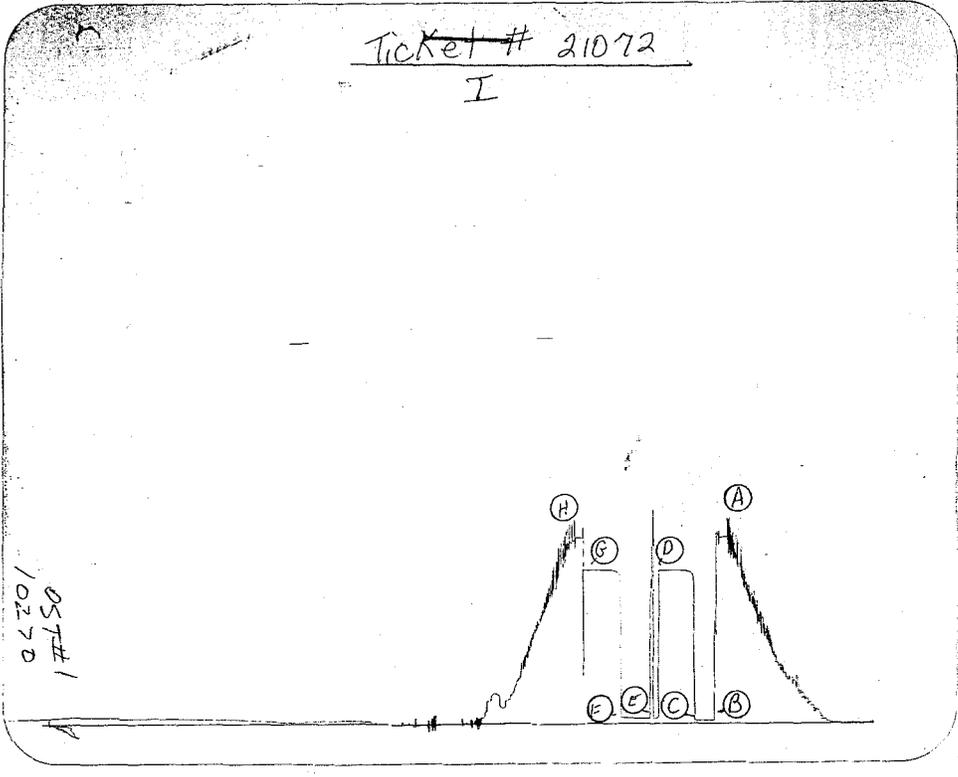
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

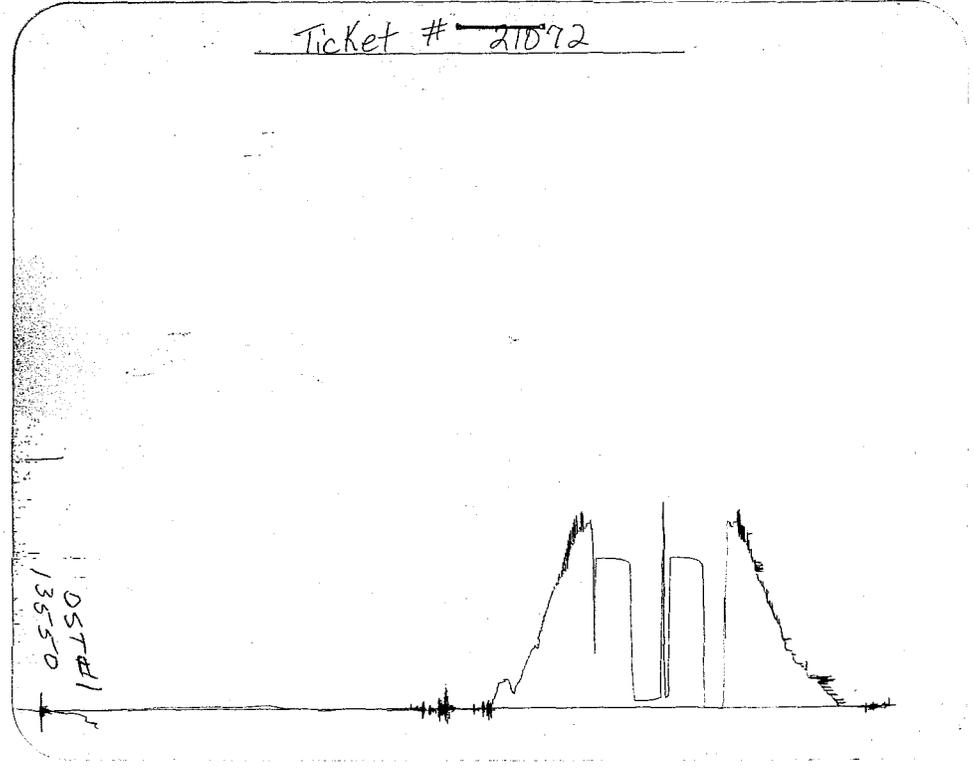
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
20.00	38.00	1.00
25.00	40.00	2.00
30.00	41.00	1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	863.00	863.00	11.00
6.00	875.00	12.00	6.00
9.00	880.00	5.00	4.33
12.00	881.00	1.00	3.50
15.00	881.00	0.00	3.00
18.00	883.00	2.00	2.67
21.00	884.00	1.00	2.43
24.00	884.00	0.00	2.25
27.00	884.00	0.00	2.11
30.00	884.00	0.00	2.00



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 8-26-95  
CUSTOMER : JAMES K. ANDERSON, INC  
WELL : #3 TEST: 2  
ELEVATION: N/A  
SECTION : 15  
RANGE : 40W COUNTY: ATCHISON  
GAUGE SN#: 10271 RANGE : 4150  
TICKET : 21073  
LEASE : BALL  
GEOLOGIST: ANDERSON  
FORMATION: HUNTON  
TOWNSHIP : 63N  
STATE : MI  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2195.00 ft TO: 2205.00 ft TVD: 2205.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 2200.0 ft 2203.0 ft  
TEMPERATURE: 109.0  
  
DRILL COLLAR LENGTH: 360.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 1808.0 ft I.D.: 2.700 in  
TEST TOOL LENGTH : 27.0 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 : 3.5XH  
PACKER DEPTH: 2190.0 ft SIZE: 6.630 in  
PACKER DEPTH: 2195.0 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. : SUMMIT DRILLING #1  
MUD TYPE : CHEMICAL  
WEIGHT : 9.200 ppg  
CHLORIDES : 0 ppm  
JARS-MAKE :  
DID WELL FLOW?: NO  
VISCOSITY : 45.00 cp  
WATER LOSS: 0.000 cc  
SERIAL NUMBER:  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD-STRONG BLOW THROUGHOUT.  
FINAL FLOW PERIOD-STRONG BLOW DECREASED TO A 5  
INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2000.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 4,000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	40.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0000	STB	AVERAGE WATER RATE:	481.8030	STB/D
WATER VOLUME:	13.3834	STB			
TOTAL FLUID :	13.3834	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1060.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	551.00	759.00
INITIAL SHUT-IN	30.00		894.00
FINAL FLOW	30.00	831.00	894.00
FINAL SHUT-IN	30.00		894.00

FINAL HYDROSTATIC PRESSURE: 1039.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1091.00

Description	Duration	p1	p End
INITIAL FLOW	10.00	516.00	759.00
INITIAL SHUT-IN	30.00		892.00
FINAL FLOW	30.00	839.00	895.00
FINAL SHUT-IN	30.00		897.00

FINAL HYDROSTATIC PRESSURE: 1043.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 8-26-95	TICKET	: 21073
CUSTOMER	: JAMES K. ANDERSON, INC	LEASE	: BALL
WELL	: #3	TEST:	2
ELEVATION:	N/A	GEOLOGIST:	ANDERSON
SECTION	: 15	FORMATION:	HUNTON
RANGE	: 40W	COUNTY:	ATCHISON
GAUGE SN#:	10271	RANGE	: 4150
		STATE	: MI
		CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	516.00	516.00
5.00	662.00	146.00
10.00	759.00	97.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	870.00	870.00	0.00
6.00	883.00	13.00	0.00
9.00	889.00	6.00	0.00
12.00	889.00	0.00	0.00
15.00	891.00	2.00	0.00
18.00	891.00	0.00	0.00
21.00	892.00	1.00	0.00
24.00	893.00	1.00	0.00
27.00	892.00	-1.00	0.00
30.00	892.00	0.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	839.00	839.00
5.00	846.00	7.00
10.00	874.00	28.00
15.00	886.00	12.00
20.00	892.00	6.00

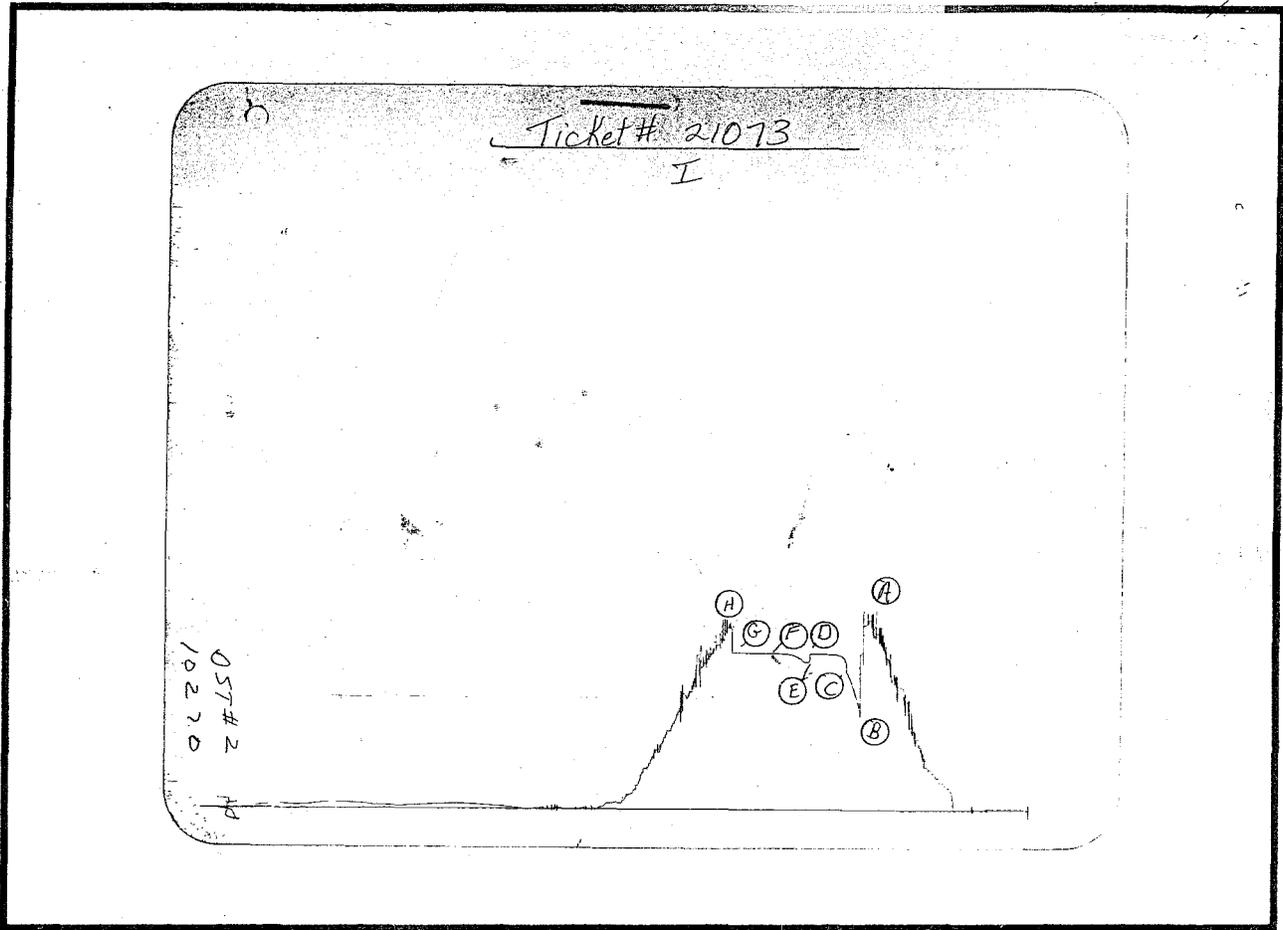
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

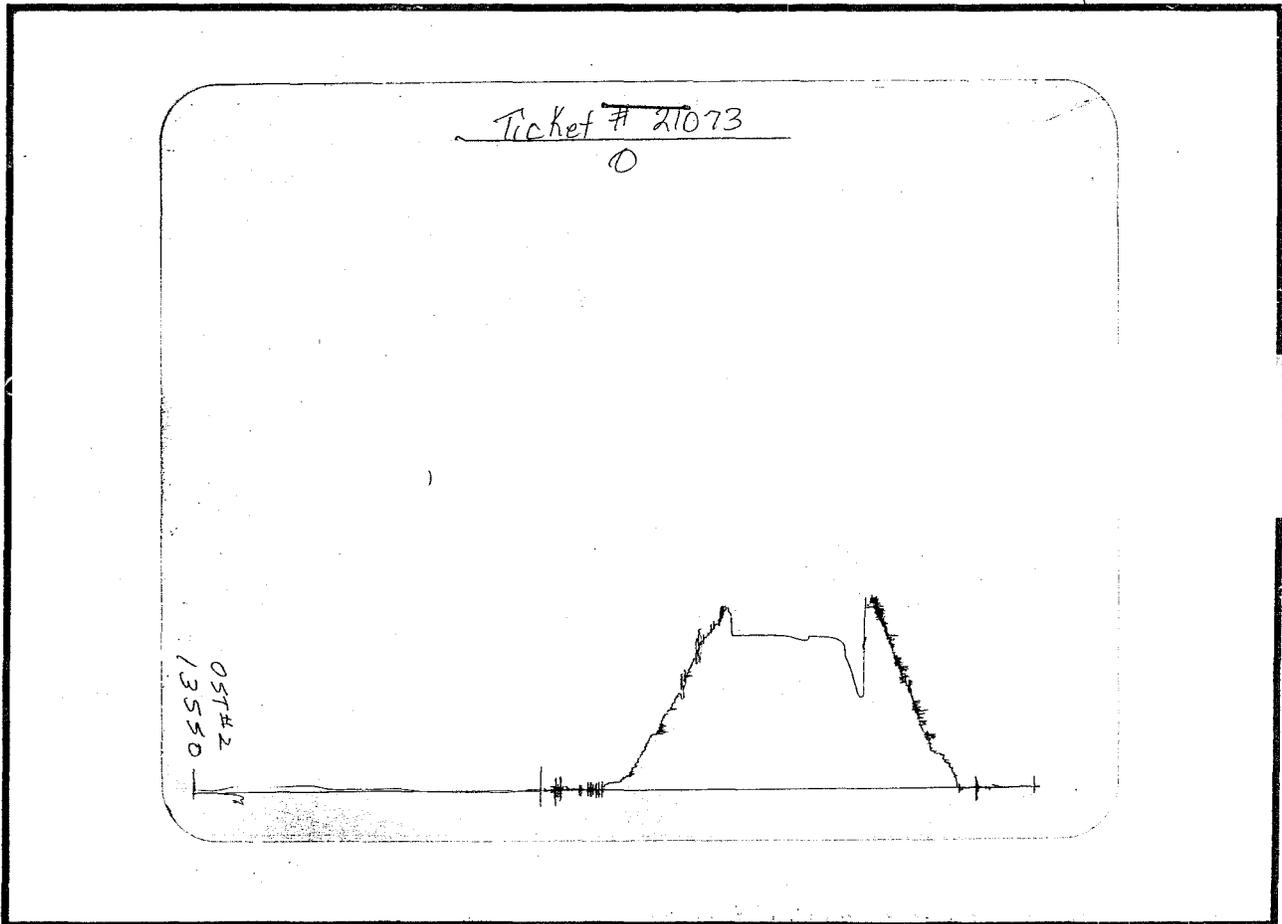
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
25.00	895.00	3.00
30.00	895.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	895.00	895.00	0.00
6.00	895.00	0.00	0.00
9.00	895.00	0.00	0.00
12.00	895.00	0.00	0.00
15.00	895.00	0.00	0.00
18.00	897.00	2.00	0.00
21.00	897.00	0.00	0.00
24.00	897.00	0.00	0.00
27.00	897.00	0.00	0.00
30.00	897.00	0.00	0.00



Inside Recorder

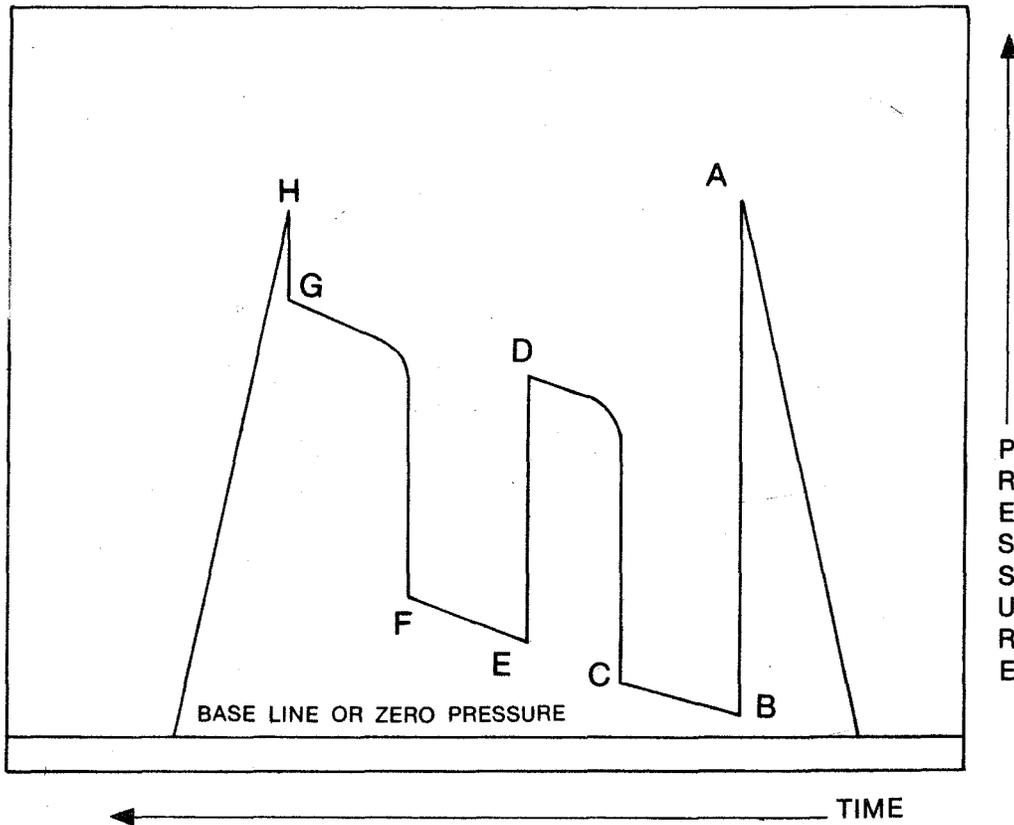


Outside Recorder

### 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.

### AK-1 Recorders



- |                         |                         |
|-------------------------|-------------------------|
| A - Initial Hydrostatic | E - Second Initial Flow |
| B - First Initial Flow  | F - Second Final Flow   |
| C - First Final Flow    | G - Final Shut-In       |
| D - Initial Shut-In     | H - Final Hydrostatic   |