15-187-20925

TRILOBITE TESTING L.L.C.

25-30s-41w

OPERATOR : Pickrell Drilling — DATE 2-6-2000
WELL NAME: Johns B-#2 — KB 3382.00 ft — TICKET NO: 12489 — DST # 1
LOCATION : 25-30s-41w Stanton co KS — GR 3370.00 ft — FORMATION: MORROW
INTERVAL : 5320.00 To 5380.00 ft — TD 5380.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	13278	13278	2341		
SI	45	Range(Psi)	4400.0	4400.0	5000.0	0.0	0.0
SF	30	Clock(hrs)	12HR	12HR	ELECT		
FS	45	Depth(ft)	5377.0	5377.0	5321.0	0.0	0.0

TIME DATA----------
PF Fr. 0749 to 0819 hr
IS Fr. 0819 to 0904 hr
SF Fr. 0904 to 0934 hr
FS Fr. 0934 to 1019 hr

	Field	1	2	3	4
A. Init Hydro	2570.0	2562.0	2561.0	0.0	0.0
B. First Flow	154.0	143.0	15.0	0.0	0.0
B1. Final Flow	154.0	137.0	16.0	0.0	0.0
C. In Shut-in	286.0	284.0	260.0	0.0	0.0
D. Init Flow	176.0	180.0	16.0	0.0	0.0
E. Final Flow	176.0	160.0	21.0	0.0	0.0
F. Fl Shut-in	363.0	363.0	352.0	0.0	0.0
G. Final Hydro	2493.0	2493.0	2538.0	0.0	0.0
Inside/Outside	I	I	I		

T STARTED 0540 hr
T ON BOTM 0747 hr
T OPEN 0749 hr
T PULLED 1019 hr
T OUT 1400 hr

RECOVERY
Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
10.00 ft of Mud
0.00 ft of 100% mud trace of oil
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	2200.00 lbs
Wt Set On Packer	25000.00 lbs
Wt Pulled Loose	45000.00 lbs
Initial Str Wt	102000.00 lbs
Unseated Str Wt	105000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	632.00 ft
D.P. Length	4697.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak 1/2" blow built to 2" blow.
Decreased slightly.
Initial Shut-In:
No blow back.
Final Flow:
Weak surface blow. Died in 15 minutes
Final Shut-In:
No blow back.

MUD DATA----------

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	57.00 S/L
W.L.	7.60 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Brad Bortz
Co. Rep.	Arden Ratzlaff
Contr.	Norseman
Rig #	1
Unit #	
Pump T.	

SAMPLES: None
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Johns B-#2

LOCATION : 25-30s-41w Stanton co KS

TICKET No. 12489 D.S.T. No. 1 DATE 2-6-2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 60

TOTAL TOOL 82

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands 7 Single Total 632

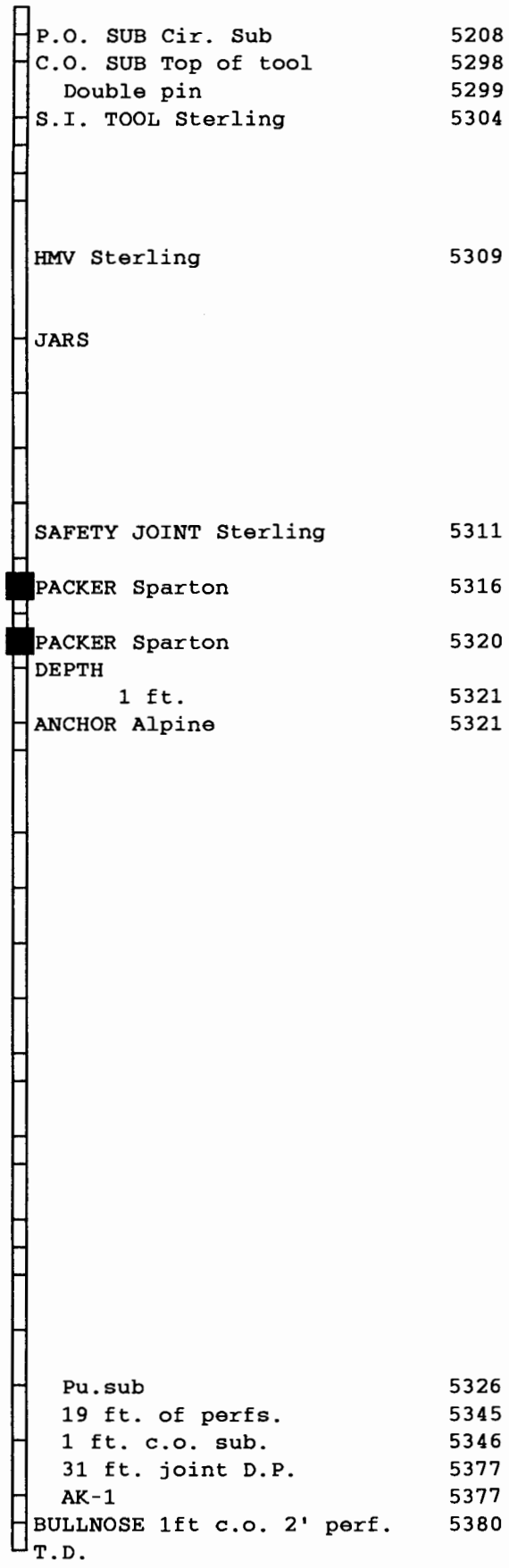
D.P. ABOVE TOOLS.Stands 50 Single 1 Total 4697

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5411

TOTAL DEPTH 5380

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

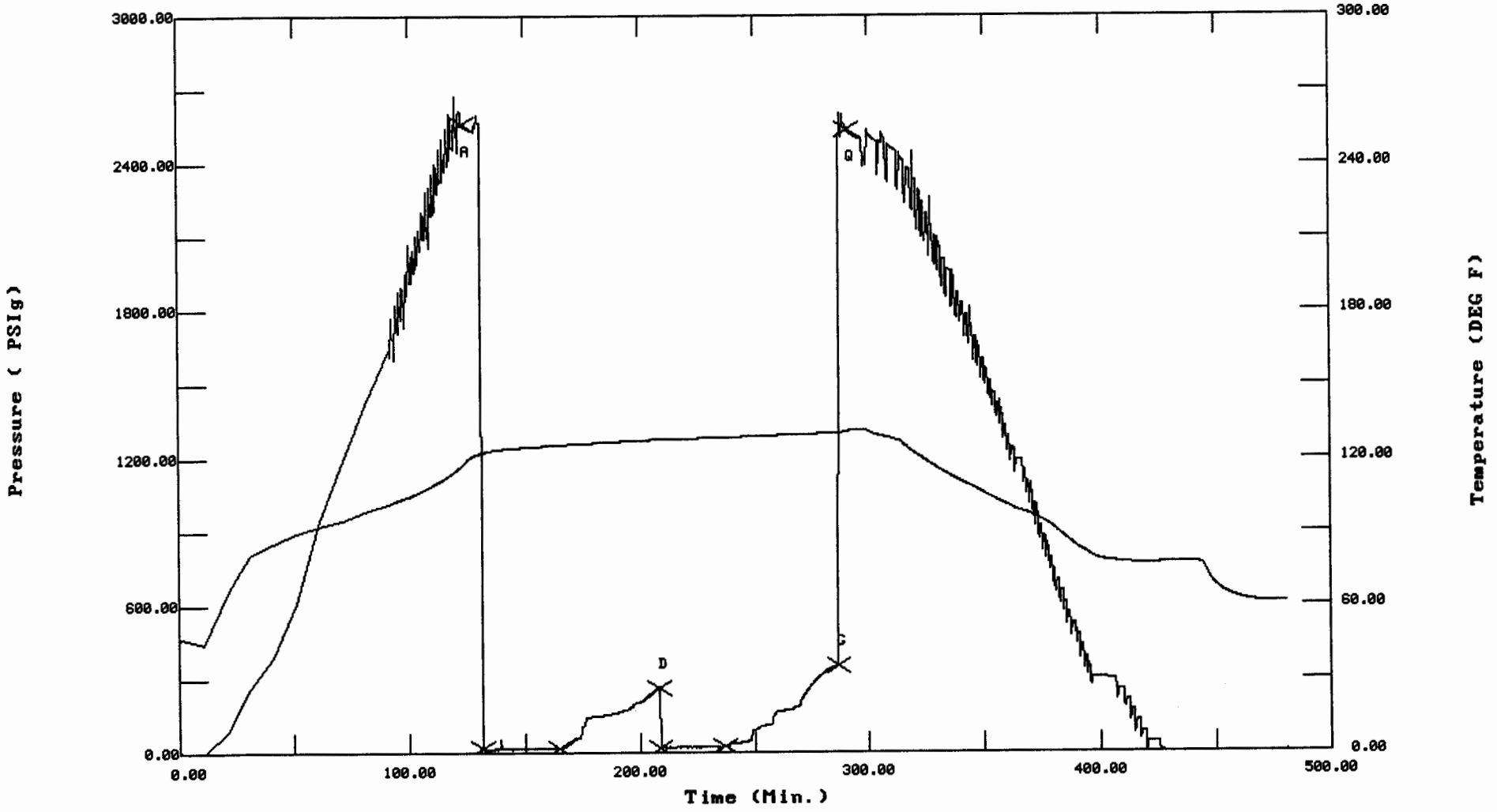


TEST HISTORY

12489 DST #1 Johns B-2 Pickrell Drilling

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2561.36
B:	0.00	15.53
C:	33.50	16.17
D:	43.50	260.44
E:	0.00	16.89
F:	28.25	21.15
G:	49.75	352.01
Q:	0.00	2538.80



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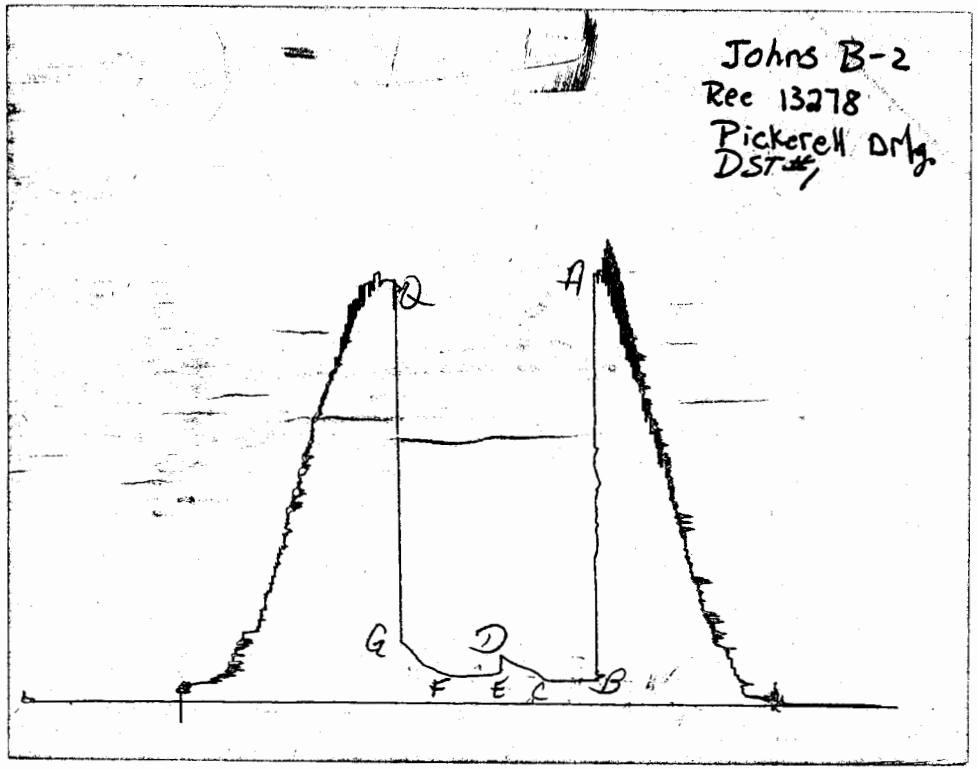


This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 12489

Well Name & No. Johns B-#2 Test No. 1 Date 2-6-2000

Company [redacted] Pickrell Drilling Zone Tested Morrow

Address [redacted] 100 S Main Suite 505 Wichita, Ks, 67202 Elevation 3382 KB 3370 GL

Co. Rep / Geo. Arden Ratzlaff Cont. Norseman Rig #1 Est. Ft. of Pay ? Por. ? %

Location: Sec. 25 Twp. 30s Rge. 41w Co. Stanton State Ks

No. of Copies R Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 5320 - 5380 Initial Str Wt./Lbs. 102,000 Unseated Str Wt./Lbs. 105,000

Anchor Length 60' IJ + DP Tool 22' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 45,000

Top Packer Depth 5315 Tool Weight 2,200

Bottom Packer Depth 5320 Hole Size — 7 7/8" — Rubber Size — 6 3/4" —

Total Depth 5380 Wt. Pipe Run — Drill Collar Run 632'

Mud Wt. 9.0 LCM 6# Vis. 57 WL 7.6 Drill Pipe Size 50 stnds + IJ + 4½ XH Ft. Run [redacted] 4697 30'

Blow Description Weak ½" Blow built to 2" Blow Decreased slightly I.F.P.

No Blow back T.S.I.P.

Weak surface Blow Died in 15 min F.F.P.

No Blow Back F.S.I.P.

Recovery — Total Feet 10 GIP — Ft. in DC — Ft. in DP 10

Rec. 10' Feet Of mud Trace of oil %gas %oil %water 100 %mud

Rec. — Feet Of — %gas %oil %water %mud

Rec. — Feet Of — %gas %oil %water %mud

Rec. — Feet Of — %gas %oil %water %mud

Rec. — Feet Of — %gas %oil %water %mud

BHT 126° °F Gravity — °API D@ — °F Corrected Gravity — °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 700 ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud	2570	2561	PSI	Recorder No.	2341	T-On Location 12:30Am
(B) First Initial Flow Pressure	154	15	PSI	(depth)	5321	T-Started 5:40Am?
(C) First Final Flow Pressure	154	16	PSI	Recorder No.	13278	T-Open 7:49Am 9:30
(D) Initial Shut-In Pressure	286	260	PSI	(depth)	5377	T-Pulled 10:19Am
(E) Second Initial Flow Pressure	176	16	PSI	Recorder No.	—	T-Out 1400
(F) Second Final Flow Pressure	176	21	PSI	(depth)	—	T-Off Location
(G) Final Shut-in Pressure	363	352	PSI	Initial Opening	30	Test — ✓ 800
(Q) Final Hydrostatic Mud	2493	2538	PSI	Initial Shut-in	45	Jars
				Final Flow	[redacted] 30	Safety Joint — ✓ 50
				Final Shut-in	[redacted] 45	Straddle
						Circ. Sub —
						Sampler
						Extra Packer
						Elec. Rec. — ✓ 150
						Mileage
						Other
						TOTAL PRICE $ 1000

Approved By Arden Ratzlaff

Our Representative Brad Bo[illegible]

TRILOBITE TESTING L.L.C.

)PERATOR : Pickrell Drilling — DATE 2-6-2000
/ELL NAME: Johns B-2 — KB 3382.00 ft — TICKET NO: 12490 — DST # 2
,OCATION : 25-30s-41w — GR 3370.00 ft — FORMATION: Keyes sand
:NTERVAL : 5400.00 To 5418.00 ft — TD 5418.00 ft — TEST TYPE: CONVENTIONAL

:ECORDER DATA

Mins		Field	1	2	3	4
>F 30	Rec.	13278	13278	ALPINE		
3I 60	Range(Psi)	4400.0	4400.0	5000.0	0.0	0.0
3F 90	Clock(hrs)	12HR	12Hr	ELECT		
>S 120	Depth(ft)	5415.0	5415.0	5401.0	0.0	0.0

	Field	1	2	3	4
\. Init Hydro	2526.0	2523.0	2547.0	0.0	0.0
3. First Flow	396.0	398.0	258.0	0.0	0.0
31. Final Flow	396.0	408.0	372.0	0.0	0.0
:. In Shut-in	1004.0	1018.0	989.0	0.0	0.0
). Init Flow	573.0	580.0	433.0	0.0	0.0
3. Final Flow	805.0	814.0	801.0	0.0	0.0
>. Fl Shut-in	1004.0	1001.0	1001.0	0.0	0.0
3. Final Hydro	2449.0	2433.0	2488.0	0.0	0.0
Inside/Outside	I	I	I		

TIME DATA----------
PF Fr. 0300 to 0330 hr
IS Fr. 0330 to 0430 hr
SF Fr. 0430 to 0600 hr
FS Fr. 0600 to 0800 hr

T STARTED 0042 hr
T ON BOTM 0258 hr
T OPEN 0300 hr
T PULLED 0800 hr
T OUT 1415 hr

TOOL DATA----------

Tool Wt.	1800.00 lbs
Wt Set On Packer	25000.00 lbs
Wt Pulled Loose	25000.00 lbs
Initial Str Wt	105000.00 lbs
Unseated Str Wt	117000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	632.00 ft
D.P. Length	4758.00 ft

RECOVERY
Tot Fluid 4823.00 ft of 632.00 ft in DC and 4191.00 ft in DP
48230.00 ft of Clean gassy oil (10%g 90%o)
608.00 ft of Gas in pipe
0.00 ft of
0.00 ft of
0.00 ft of Did reverse out.
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 44.00

MUD DATA----------

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	50.00 S/L
W.L.	6.80 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	136.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	Y
Tool Chased	N
Tester	Brad Bortz
Co. Rep.	Arden Ratzlaff
Contr.	Norseman
Rig #	1
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Very strong blow - bottom of bucket
immediatly Gas to surface in 3 minutes

Initial Shutin:
Strong blow back - bottom of bucket

Final Flow:
Bottom of bucket immediatly

Final Shutin:
Strong blow back - bottom of bucket

Gas bill burn
SAMPLES: Caught one Sample
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Johns B-2

LOCATION : 25-30s-41w

TICKET No. 12490 D.S.T. No. 2 DATE 2-6-2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 18

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands 7 Single Total 632

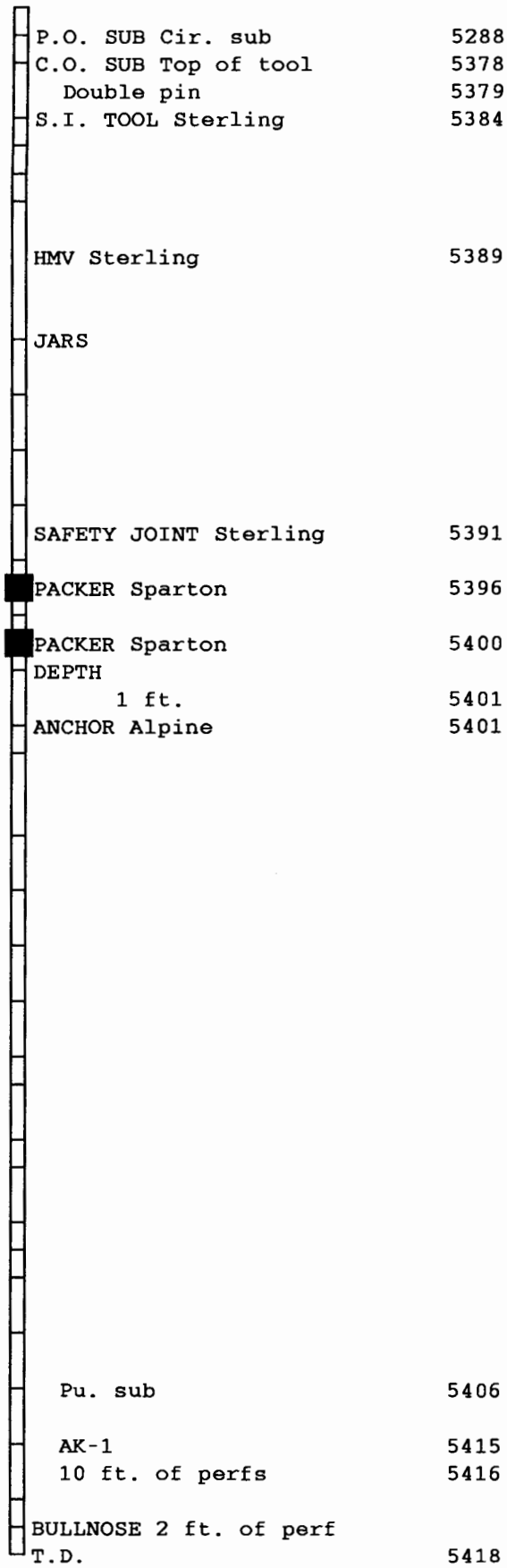
D.P. ABOVE TOOLS.Stands 51 Single Total 4758

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5430

TOTAL DEPTH 5418

TOTAL DRILL PIPE ABOVE K.B. 12

REMARKS:

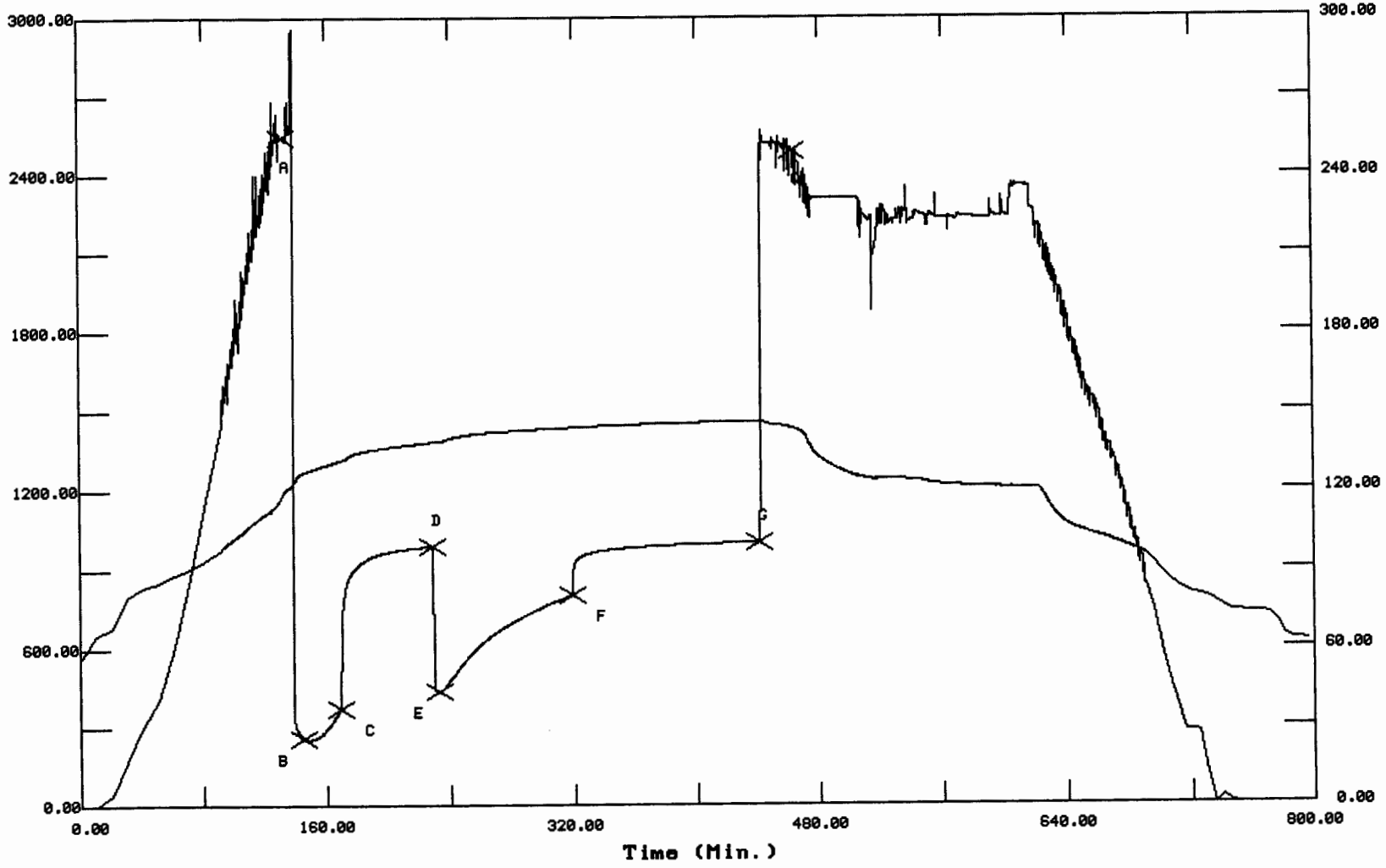


TEST HISTORY

12490 DST #2 Johns-#2 Pickrell Drilling

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2547.14
B:	0.00	258.27
C:	24.75	372.39
D:	60.00	989.60
E:	0.00	433.90
F:	86.25	801.06
G:	122.50	1001.09
Q:	0.00	2488.46



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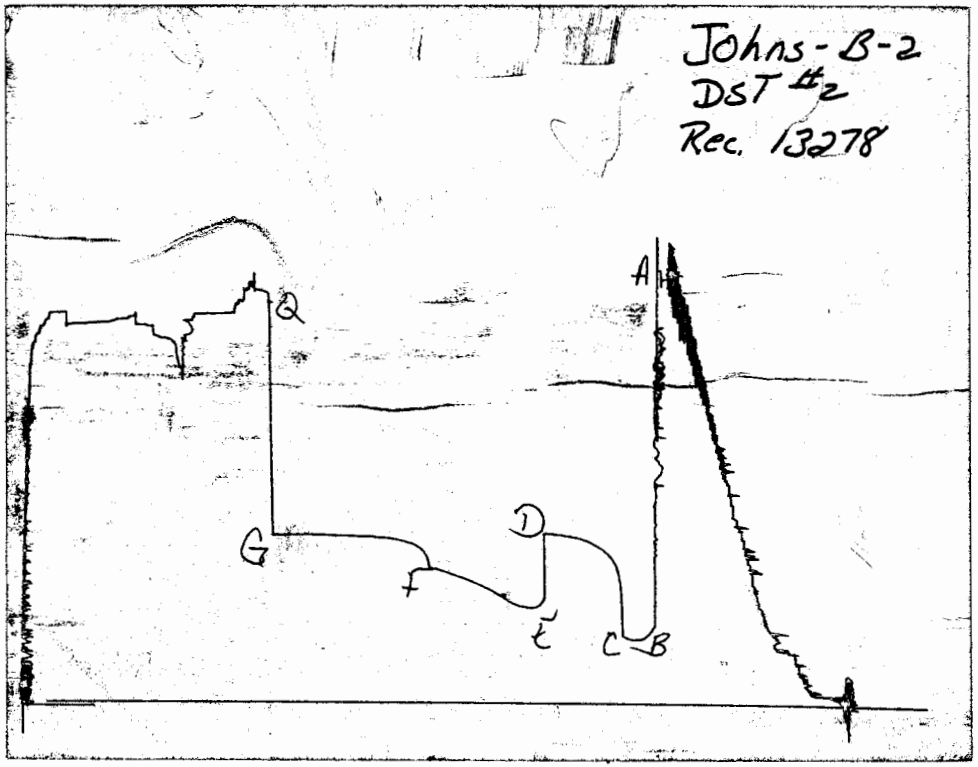


This is a photocopy of the actual AK-1 recorder chart

GAS RECOVERY

COMPANY: Pickrell Drilling DATE: 2-6-2000
WELL NAME: Johns B-2 KB Elev: 3382.00 ft TICKET #12490 DST # 2
WELL LOCATION: 25-30s-41w GR Elev: 3370.00 ft FORMATION: Keyes sand
INTERVAL Fr.: 5400.00 To 5418.00 T.D.: 5418.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH 2" MERLA ORFICE

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	1.50	5	0	863000.0
20	1.50	4	0	764000.0
30	0.75	4	0	156000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.50	14	0	141000.0
20	0.25	0	2	2370.0
30	0.25	0	4	3370.0
40	0.25	0	3	2920.0
50	0.25	0	3	2920.0
60	0.25	0	3	2920.0
70	0.25	0	3	2920.0
80	0.25	0	3	2920.0
90	0.25	0	3	2920.0

Operator.....: Pickrell Drilling
Well Name.....: Johns B-2
DST Number.....: 2

Location.: 25-30s-41w
Test Type: Conventional
Formation: Keyes Sand

Recorder No...: 3030
Recorder Depth: 5401
Test Interval.: 5400-5418

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay	20.00 ft
Porosity	16.00 %
Bottom Hole Temp	136.00 F
Specific Gravity	0.024
API Gravity	44.00
Compressibility	0.000001 /psi
Viscosity	2.7596 cp
Total Recovery	4823.00 ft
Total Flowing Time	120.00 min.
Flow Rate	677.01 bbls/d
Final Flowing Pressure	801.00 psi
Horner Slope	57.1716 psi/cycle
Extrapolated Pressure	1017.35 psi
Formation Volume Factor	1.07 Reservoir/Surface
Well Bore Radius	3.64 in

RESULTS:

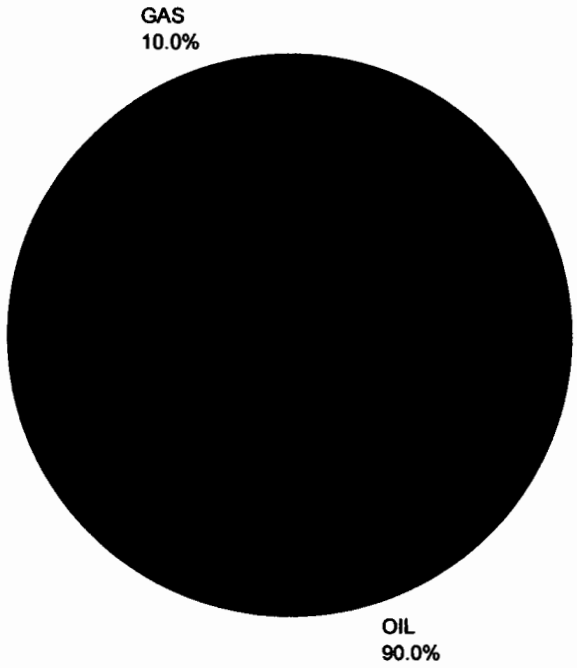
Effective Permeability	285.308862 md
Flow Capacity	5706.1772 md.ft
Transmissibility	2067.7552 md.ft/cp
Skin Factor	-3.4269
Radius of Investigation	1345.89736 ft
Damage Ratio	0.5597
Productivity Index	3.1292 bbls/psi.d
Productivity Index W/O Damage.	1.7513 bbls/psi.d

CALCULATED RECOVERY ANALYSIS

DST 2 TICKET 12490

SAMPLE #		TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET
DRILL	1	4191	10	419.1	90	3771.9	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	632	10	63.2	90	568.8	0	0	0	0
COLLARS	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		4823	0	482.3	0	4340.7	0	0	0	0

			HRS OPEN		BBL/DAY
BBL OIL=	56.41785	*	2	=	677.0142
BBL WATER=	0	*		=	0
BBL MUD=	0				
BBL GAS =	6.26865				

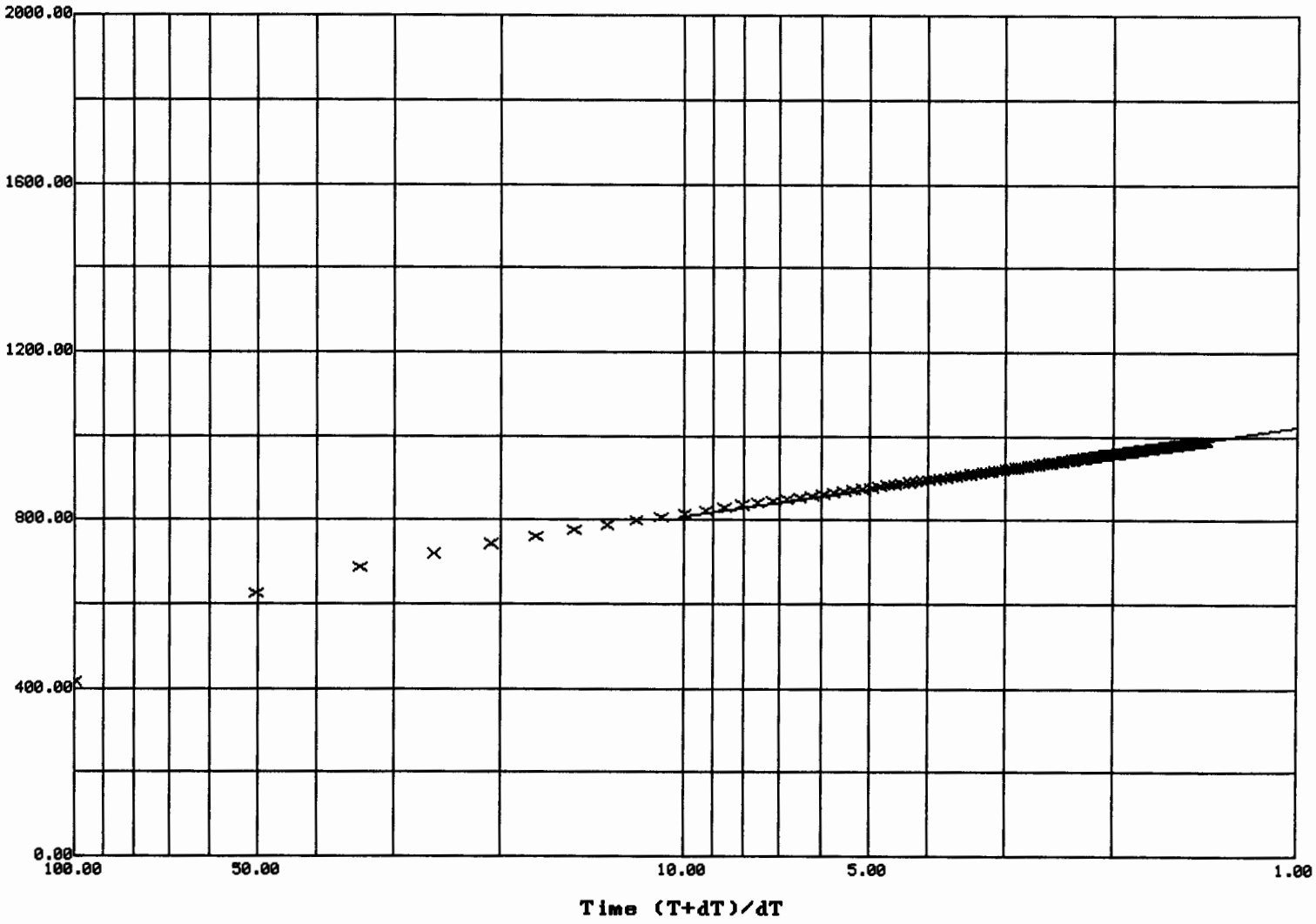


Horner Plot: shut-in #1

12490 DST #2 Johns-#2 Pickrell Drilling

Slope: 212.0569 PSIg/cycle

Ext. Pressure: 1021.3126 PSIg

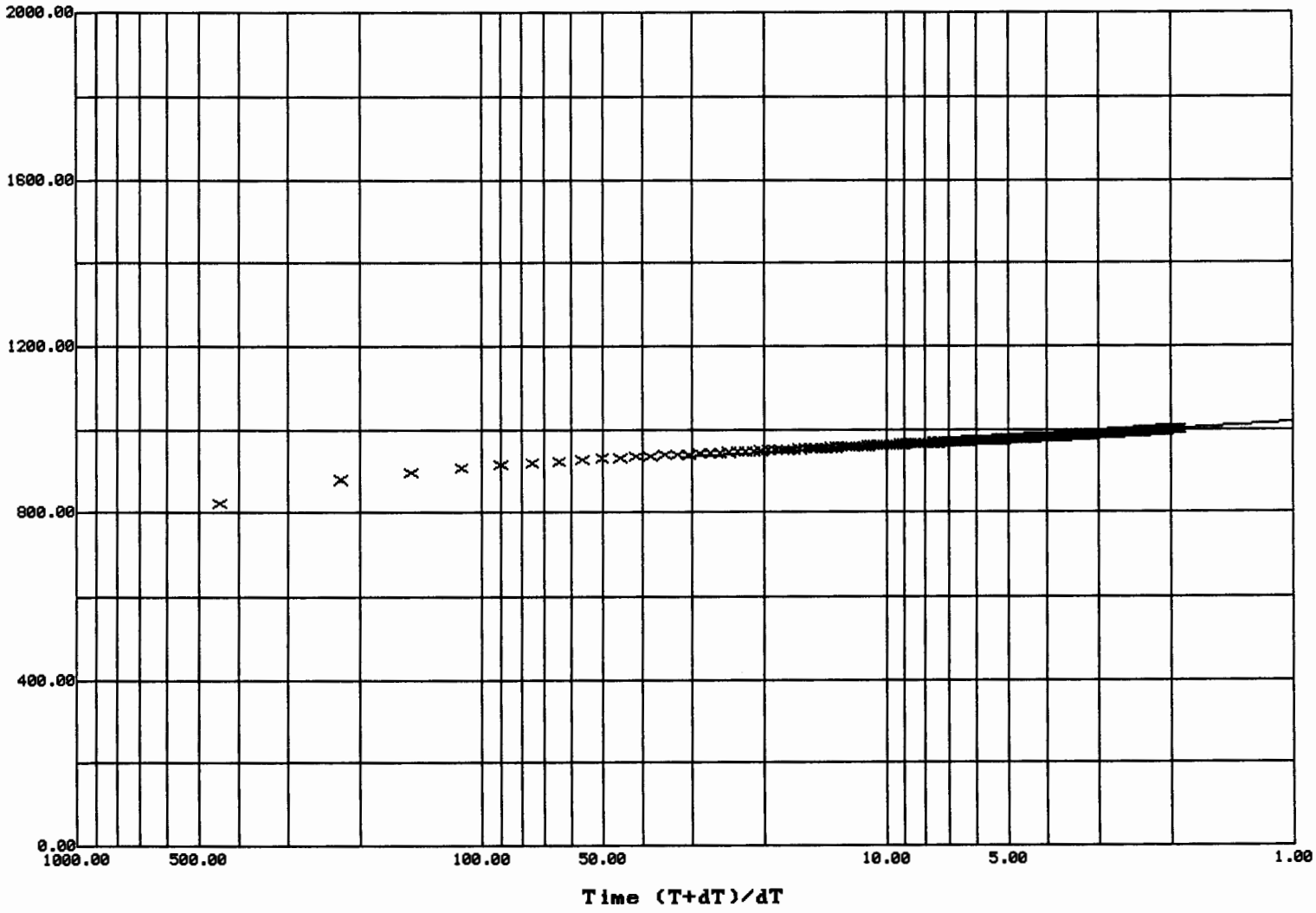


Horner Plot: shut-in #2

12490 DST #2 Johns-#2 Pickrell Drilling

Slope: 57.1716 PSIg/cycle

Ext. Pressure: 1017.3501 PSIg



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Pikrell Drlg (OPERATOR) | Johns B-2 (WELL NAME AND NO.) | 2 (DST NO.)

gas to surface in 3 min

1st Flow

Min.	Ins. of Water (PSIG)	Orifice Size	MCF/D
10	5#	1½	863,000
20	4#	1½	764,000
30	4#	¾"	156,000

2nd Flow

Min.	Ins. of Water (PSIG)	Orifice Size	MCF/D
10	14#	½	141,000
20	2"	¼	2,370
30	4"	¼	3,370
40	3"	¼	2,920
50	3"	¼	2,920
60	3"	¼	2,920
70	3"	¼	2,920
80	3"	¼	2,920
90	3"	¼	2,920

Remarks: Caught 1-gas smple
Sent to Carraway.
gas will burn.

101 NCR

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 12490

Well Name & No. Johns B-2 Test No. 2 Date 2-6-2000

Company Pickrell Drilling Zone Tested Keyes Sand

Address 100 S. main Suite 505 Wichita Ks, 67202 Elevation 3382 KB 3370 GL

Co. Rep / Geo. Arden Ratzlaff Cont. Norseman #1 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 25 Twp. 30S Rge. 41 w Co. Stanton State Ks

No. of Copies R Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 5400 [redacted] - 5418 Initial Str Wt./Lbs. 105,000 Unseated Str Wt./Lbs. 117,000

Anchor Length [redacted]' 18' tool 22' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 25,000

Top Packer Depth 5395 Tool Weight 18,000

Bottom Packer Depth [redacted] 5400 Hole Size — 7 7/8" — Rubber Size — 6 3/4" —

Total Depth 5418 Wt. Pipe Run ___ Drill Collar Run 7 stnd 632

Mud Wt. 9.0 LCM 5# Vis. 50 WL 6.8 Drill Pipe Size 51 stnds 4½ XH Ft. Run 4758 12' up

Blow Description Very Strong Blow O.B.B Imediatly G.T.S in 3 min I.F.P See gas Flow Chart
Strong Blow back O.B.B I.S.I.P.
Bottom Bucket Imediatly F.F.P. " Reversed out "
Strong Blow back O.B.B. F.S.I.P.

Recovery — Total Feet 4823 GIP 608' Ft. in DC 632' Ft. in DP 4191

Rec. 4823	Feet Of Clean gassy oil	10 %gas	90 %oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud

BHT 136° °F Gravity 43 °API D@ 52 °F Corrected Gravity 44 °API

RW — @ — °F Chlorides — ppm Recovery Chlorides ___ ppm System

	AK-1	Alpine				
(A) Initital Hydrostatic Mud	2526	2547	PSI	Recorder No.	2341	T-On Location 11:00 Pm
(B) First Initial Flow Pressure	396	258	PSI	(depth)	5401	T-Started 0042 12:42 AM
(C) First Final Flow Pressure	396	372	PSI	Recorder No.	13278	T-Open 3:00 AM
(D) Initial Shut-In Pressure	1004	989	PSI	(depth)	5415	T-Pulled 8:00 AM
(E) Second Initial Flow Pressure	573	433	PSI	Recorder No.	—	T-Out 1415 12:33
(F) Second Final Flow Pressure	805	801	PSI	(depth)	—	T-Off Location ___
(G) Final Shut-in Pressure	1004	1001	PSI	Initial Opening	30	Test - ✓ 800
(Q) Final Hydrostatic Mud	2449	2488	PSI	Initial Shut-in	60	Jars ___
				Final Flow	90	Safety Joint - ✓ 50
				Final Shut-in	120	Straddle ___
						Circ. Sub - ✓ 35
						Sampler ___
						Extra Packer ___
						Elec. Rec. - ✓ 150
						Mileage ___
						Other time 4.5 hrs, 135.00
						TOTAL PRICE $ 1170

Approved By Arden Ratzlaff

Our Representative Brad Bott

TRILOBITE TESTING L.L.C.

OPERATOR : Pickrell Drilling — DATE 2-8-2000
WELL NAME: Johns B-2 — KB 3382.00 ft — TICKET NO: 12491 — DST # 3
LOCATION : 25-30s-41w Stanton co KS — GR 3370.00 ft — FORMATION: Keyes Sand
INTERVAL : 5422.00 To 5439.00 ft — TD 5439.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	10993	10993	ALPINE		
SI 60	Range(Psi)	4250.0	4250.0	5000.0	0.0	0.0
SF 90	Clock(hrs)	12HR	12HR	ELECT		
FS 120	Depth(ft)	5436.0	5436.0	5423.0	0.0	0.0

TIME DATA----------
PF Fr. 0431 to 0501 hr
IS Fr. 0501 to 0601 hr
SF Fr. 0601 to 0731 hr
FS Fr. 0731 to 0931 hr

	Field	1	2	3	4
A. Init Hydro	2601.0	2756.0	2557.0	0.0	0.0
B. First Flow	87.0	104.0	35.0	0.0	0.0
B1. Final Flow	97.0	115.0	55.0	0.0	0.0
C. In Shut-in	1006.0	1052.0	1008.0	0.0	0.0
D. Init Flow	119.0	151.0	59.0	0.0	0.0
E. Final Flow	130.0	171.0	116.0	0.0	0.0
F. Fl Shut-in	1017.0	1052.0	1013.0	0.0	0.0
G. Final Hydro	2591.0	2657.0	2536.0	0.0	0.0
Inside/Outside	I	I	I		

T STARTED 0200 hr
T ON BOTM 0429 hr
T OPEN 0431 hr
T PULLED 0931 hr
T OUT 1300 hr

RECOVERY
Tot Fluid 276.00 ft of 276.00 ft in DC and 0.00 ft in DP
2303.00 ft of Gas in pipe
182.00 ft of Clean gassy oil 10% gas 90% oil
92.00 ft of Gassy oil cut mud 36% gas 8% oil 56% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 44.00

TOOL DATA----------

Tool Wt.	1800.00 lbs
Wt Set On Packer	25000.00 lbs
Wt Pulled Loose	30000.00 lbs
Initial Str Wt	104000.00 lbs
Unseated Str Wt	112000.00 lbs
Bot Choke	0.75 in
Hole Size	7.78 in
D Col. ID	2.25 in
D. Pipe ID	3.80 in
D.C. Length	632.00 ft
D.P. Length	4789.00 ft

BLOW DESCRIPTION
Initial Flow:
Fair blow built to strong blow off
bottom of bucket in 5 minutes
Initial Shutin:
No blow back

Final Flow:
Strong blow built to
bottom of bucket in 1 1/2 minutes

Final Shutin:
Weak blow back

Slid tool 10 ft. to bottom
SAMPLES:
SENT TO:

MUD DATA----------

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	53.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	138.00 F
Hole Condition	slid 10 ft
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	N
Tool Chased	N
Tester	Brad Bortz
Co. Rep.	Arden Ratzlaff
Contr.	Norseman
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Johns B-2

LOCATION : 25-30s-41w Stanton co KS

TICKET No. 12491 D.S.T. No. 3 DATE 2-8-2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 17

TOTAL TOOL 39

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands 7 Single Total 632

D.P. ABOVE TOOLS.Stands 51 Single 1 Total 4789

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5460

TOTAL DEPTH 5439

TOTAL DRILL PIPE ABOVE K.B. 21

REMARKS:

P.O. SUB Cir. sub	5310
C.O. SUB Top of tool	5400
Double pin	5401
S.I. TOOL Sterling	5406
HMV Sterling	5411
JARS	
SAFETY JOINT Sterling	5413
PACKER Sparton	5418
PACKER Sparton	5422
DEPTH	
1 ft.	5423
ANCHOR ALPINE	5423
Pu. sub	5428
AK-1	5436
9 ft. perfs	5437
BULLNOSE 2 ft. perf	
T.D.	5439

TEST HISTORY

12491 DST #3 Johns-B-2 Pickrell Drilling

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2557.12
B:	0.00	35.90
C:	31.50	55.91
D:	60.25	1008.99
E:	0.00	59.66
F:	89.50	116.35
G:	121.75	1013.31
Q:	0.00	2536.19

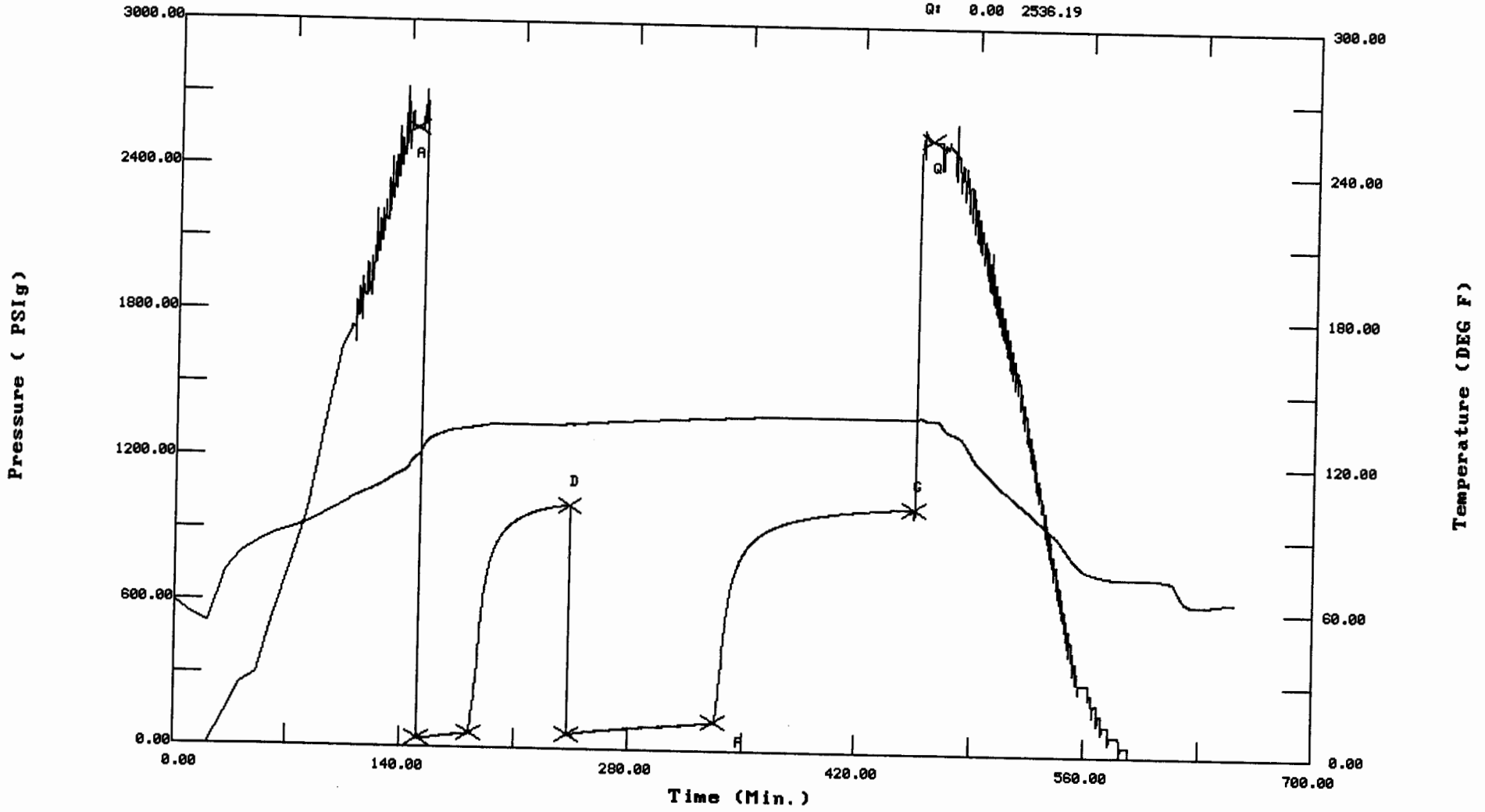
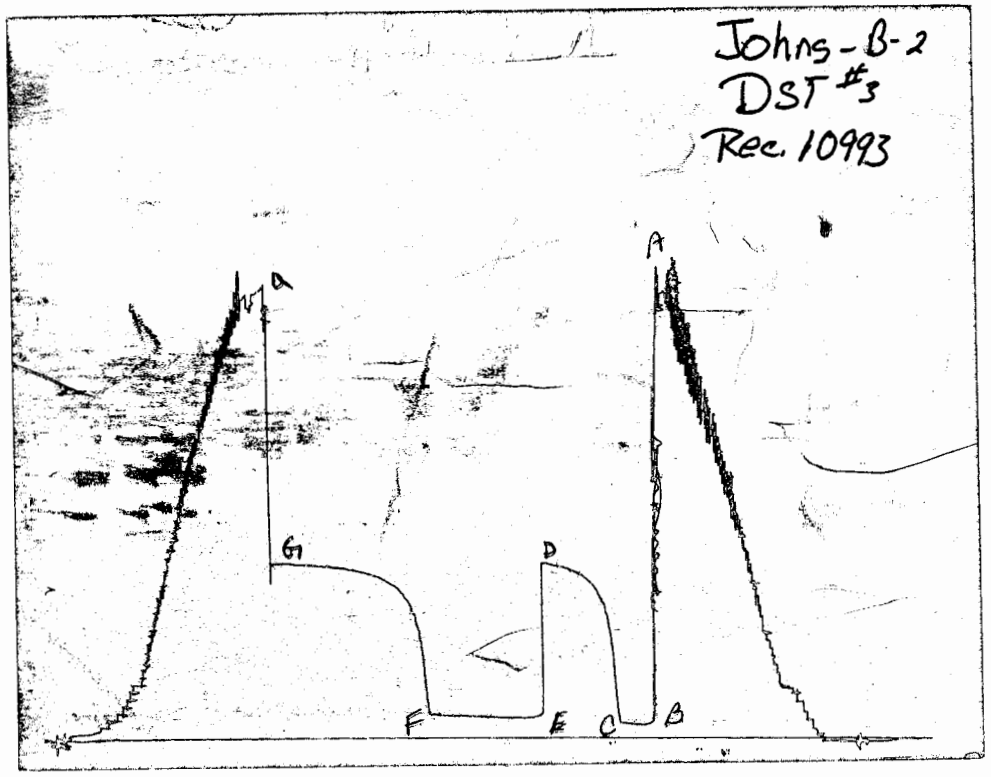


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 12491

Well Name & No. Johns B-2 Test No. 3 Date 2-8-2000

Company Pickrell Drilling Zone Tested Keyes Sand

Address 100S main S.505 Wichita Ks 67202 Elevation 3382 KB 3370 GL

Co. Rep / Geo. Arden Ratzlaff Cont. Norseman 1 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 25 Twp. 30S Rge. 41W Co. Stanton State Ks

No. of Copies R Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 5422 - 5439

Anchor Length 17' tool 22'

Top Packer Depth 5417

Bottom Packer Depth 5422

Total Depth 5439

Mud Wt. 9.0 LCM 4# Vis. 53 WL 7.2

Initial Str Wt./Lbs. 104,000 Unseated Str Wt./Lbs. 112,000

Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 30,000

Tool Weight 1800

Hole Size — 7 7/8" — Rubber Size — 6 3/4" —

Wt. Pipe Run — Drill Collar Run 632

Drill Pipe Size 515 stnd 1-Jt 4½ XH Ft. Run 4789 21' up

Blow Description Fair Blow built to Strong Blow off BOB in 5min I.F.P.
No Blow back I.S.I.P. (Slid 10' to Bottom)
Strong Blow built to B.O.B. in 1½ min F.F.P.
weak blow back on F.S.I.P.

Recovery — Total Feet 276 GIP 2303 Ft. in DC ___ Ft. in DP ___

Rec. 182'	Feet Of Clean Gassy oil	10 %gas	90 %oil	%water	%mud
Rec. 92'	Feet Of gassy oil cut mud	36 %gas	8 %oil	%water 56	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud

BHT 138° °F Gravity 45 °API D@ 70 °F Corrected Gravity 44 °API

RW — @ — °F Chlorides — ppm Recovery Chlorides 700 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	2601	2557	PSI	Recorder No.	2341	T-On Location	12:30Am
(B) First Initial Flow Pressure	87	35	PSI	(depth)	5423	T-Started	2:00Am
(C) First Final Flow Pressure	97	55	PSI	Recorder No.	10993 Cap 4250	T-Open	4:31Am
(D) Initial Shut-In Pressure	1006	1008	PSI	(depth)	5436	T-Pulled	9:31Am
(E) Second Initial Flow Pressure	119	59	PSI	Recorder No.	—	T-Out	1300
(F) Second Final Flow Pressure	130	116	PSI	(depth)	—	T-Off Location	
(G) Final Shut-in Pressure	1017	1013	PSI	Initial Opening	30	Test - ✓	800
(Q) Final Hydrostatic Mud	2591	2536	PSI	Initial Shut-in	60	Jars	
				Final Flow	90	Safety Joint - ✓	50
				Final Shut-in	120	Straddle	
						Circ. Sub -	
						Sampler	
						Extra Packer	
						Elec. Rec. - ✓	150
						Mileage	
						Other time 2hrs @ 30 =	60
						TOTAL PRICE $	1060

Approved By Arden Ratzlaff

Our Representative Brad Bos