

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 6528

Name: R. J. Patrick Operating Company

Address P O Box 1157

City/State/Zip Liberal, Kansas 67905-1157

Purchaser: Kansas Gas Supply

Operator Contact Person: R. J. Patrick

Phone (316), 624-8483

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Marvin Harvey

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, VSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

05/22/00 06-07-00 06-14-00
Spud Date Date Reached TD Completion Date

API NO. 15- 033-21095 0000

County Comanche County, Kansas

NE SE Sec. 10 Twp. 33S Rge. 19 X W

1960 Feet from (S)N (circle one) Line of Section

700 Feet from (E)W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner: 2081
NE, (SE) NW or SW (circle one)

Lease Name Donald Herd Well # 2-10

Field Name Wildcat

Producing Formation Mississippian

Elevation: Ground 2018 KB 2029

Total Depth 6136' PBTB _____

Amount of Surface Pipe Set and Cemented at 730 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 730

feet depth to surface w/ 350 sx cmt.

Drilling Fluid Management Plan: ALT 1 JH 7-14-00
(Data must be collected from the Reserve Pit)

Chloride content 22000 ppm Fluid volume 1800 bbls.

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name KBW Oil & Gas

Lease Name Harmon SWD License No. 5993

NW Quarter Sec. 11 Twp. 33 S Rng. 20 (E)W

County Comanche County, KS Docket No. 22304

CONSERVATION DIVISION
WICHITA, KANSAS

JUN 19 2000

RECEIVED
STATE CORPORATION COMMISSION

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature RJ Patrick

Title Owner Date 06/19/00

Subscribed and sworn to before me this 19th day of June
19 2000

Notary Public Jay Berry

Date Commission Expires 04/04/04

STATE NOTARY PUBLIC
JAY BERRY
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Expires: 4-4-04

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 XGS Plug Other
(Specify)

Operator Name R. J. Patrick Operating Company Lease Name Donald Herd Well # 2-10

Sec. 10 Twp. 33 Rge. 19 East West
 County Comanche County, Kansas

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner Shale	4328	2301
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	4517	2490
		Kansas City	4756	2729
		Marmaton	5024	2997
		Pawnee	5123	3096
		Ft. Scott	5159	3132
		Cherokee Shale	5168	3141
		Mississippian	5264	3237

List All E.Logs Run: Dual Compensated Porosity, Dual Induction, Micro, Sonic Porosity and Cement Bond Log.

Copy of 6 DST Enclosed.

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Conductor		20"		60'	Grout		
Surface	12-1/4"	8-5/8"	24#	730'	Lite Class A	250 100	3% cc 3%cc 2%gel
Production	7-7/8"	4-1/2"	11.60#	5400'	50/50 Poz	150	18% salt

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
		Depth	Depth
2	5274' to 5280' & 5294' to 5300'	500 gal 15% & 2500 gal 7 1/2%	5274' to 5300'

TUBING RECORD		Size	Set At	Packer At	Liner Run	
		2 3/8	5128'	5136'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Inj.		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
June 13-2000						
Estimated Production Per 24 Hours	Oil	Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	0	2,000,000pd	0		-

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION 5274-5280' & 5294-5300 Production Interval

Open Hole Perf. Dually Comp. Commingled

Other (Specify) _____

WEDER SERVICES, INC.

ORIGINAL

P.O. BOX 1087
WOODWARD, OK 73802

PHONE (580) 256-9371
FAX (580) 256-6997

R.J. PATRICK OPERATING CO.
P.O. BOX 1157
LIBERAL KS 67905-1157

05/19/00

20648

LEASE NAME: DON HERD 2-10
RIG #5
WORK ORDER #WO2073
FURNISHED WELDER & MATERIAL
DRILLED 60' OF 30" CONDUCTOR HOLE
DRILLED 5' OF 66" HOLE FOR CELLAR
FURNISHED 60' OF 20" CONDUCTOR PIPE
FURNISHED GROUT
TOTAL BID \$3,475.00
INSURANCE SURCHARGE 69.50
FUEL SURCHARGE 105.00

THANK YOU!!!!

120

TOTAL BID, FUEL, AND INSURANCE	3,649.50
SALES TAX	33.75
TOTAL INVOICE	3,683.25

RECEIVED MAY 24 2000

SERVICES:

- Welding • Dozers • Roustabouts
- Backhoe • Cargo • Trucking
- Conductor Service

DIVISIONS:

Conductor Services	Weder Service	L & L Dirt Co.	Tri-State Construction
256-9371	254-5383	921-3375	256-0605
		254-5379	



CEMENTING LOG

ORIGINAL
STAGE NO.

Date: 6-8-00 District: District 100 Ticket No. 4429
 Company: RT Patrick Rig: Duke #5
 Lease: Herd Well No. 1-10
 County: Comanche State: KS
 Location: Coldwater, ss to Tct Field: 10-33-19
2W-3/4S

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size: 4 1/2 Type _____ Weight 11.60 Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2 Weight 16.60 Collars x hole
 Open Hole: Size 7 7/8 T.D. 6136 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0155 Lin. ft./Bbl. 64.34
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.5993
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. .0406 Lin. ft./Bbl. 24.6174
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG
2.25 1.28 14.5

LEAD: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type 50:50:2
18% SALT, .75% CD-31, FLO-SEAL Excess _____

Amt. 17.5 Skys Yield 1.28 ft³/sk Density 14.5 PPG

WATER: Lead _____ gals/sk Tail 5.43 gals/sk Total _____ Bbls.

Pump Trucks Used 343

Bulk Equip. 242

Float Equip: Manufacturer _____

Shoe: Type _____ Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top TEP Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type 2% KCL Amt. 83 1/2 Bbls. Weight 8.43 PPG

Mud Type Chemical Weight 9.1 PPG

COMPANY REPRESENTATIVE RT Patrick

CEMENTER Larry Drilling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
12:00		300				Pipe on Bottom - Breaks Circ. Recip. Pipe.
12:45		25		2	3	Plug Rathole w/ 155x
12:50		25		1	3	Plug in case hole w/ 105x
12:55		300		34	6	Cement w/ 1503x 50:50:2
1:05				5	4	18% SALT - .75% CD-31 + 1/4" Flo-Seal
1:10		100		10	6	Wash out Pump + lines
		100		50	6	Release Plug
		150		65	6	Start 2% KCL water
		300		70	4	Cement to oil shoe
		500		83 1/2	3	PSI lift INCREASE
		1000		-	3	Slow Rate - PSI INCREASE
					3	Slow Rate
					3	Bump Plug
						Release PSI
						Flat Held

FINAL DISP. PRESS: 500 PSI BUMP PLUG TO 1000 PSI BLEEDBACK 1/2 BBLs. THANK YOU

ALLIED CEMENTING CO., INC. 4429

Federal Tax I.D.# 48-0727860

ORIGINAL

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Med. Lodge, KS

DATE <u>8-00</u>	SEC <u>110</u>	TWP <u>33s</u>	RANGE <u>19w</u>	CALLED OUT <u>7:00 A.M.</u>	ON LOCATION <u>9:45 A.M.</u>	JOB START <u>12:00 P.M.</u>	JOB FINISH <u>1:30 P.M.</u>
LEASE <u>Herd</u>		WELL# <u>1-10</u>		LOCATION <u>Coldwater 55 to 7ct.</u>		COUNTY <u>Comanche</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)			<u>200-3/4s-4/5</u>				

CONTRACTOR Duke Drlg
 TYPE OF JOB Prod. Csg.
 HOLE SIZE 7 7/8 T.D. 6136'
 CASING SIZE 4 1/2 x 11.60 DEPTH 5415'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1000 MINIMUM 150
 MEAS. LINE _____ SHOE JOINT 12.00
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 2% KCL - 38 1/2 Bbls
EQUIPMENT
 PUMP TRUCK # 343 CEMENTER Larry Drilling
 HELPER Justin
 BULK TRUCK # 242 DRIVER Mike
 BULK TRUCK # _____ DRIVER _____

OWNER RJ Patrick Oper.
CEMENT
 AMOUNT ORDERED 1755x 50 50' 2
18% SALT 7.5% CD-31 + 1/4# Flo-Seal
10gals. Clay pro
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____
 TOTAL _____

REMARKS:
Pipe on Bottom - Break Line
Recip. Pipe ~~200-3/4s-4/5~~
Plug Rathole w/ 155x mousehole w/
105x Cement 1505x 50 50' 2 +
18% SALT 7.5% CD-31 + 1/4# Flo-Seal
Washout Pump Lines - Release Plug
Displace 38 1/2 Bbls 2% KCL - Bump Plug
Release PSI Float Held

SERVICE
 DEPTH OF JOB 5415
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 PLUG Rubber 4 1/2 @ _____
 _____ @ _____
 TOTAL _____

CHARGE TO: RJ Patrick operating
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE x RJ Patrick

x RJ Patrick
 PRINTED NAME

ALLIED CEMENTING CO., INC. 1498

Federal Tax I.D.# 48-0727860

ORIGINAL

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge

DATE <u>5-23-00</u>	SEC. <u>10</u>	TWP. <u>33S</u>	RANGE <u>19W</u>	CALLED OUT <u>11:30 pm</u>	ON LOCATION <u>1:30 Am</u>	JOB START <u>7:05 Am</u>	JOB FINISH <u>7:40 Am</u>	
LEASE <u>Herd</u>				WELL # <u>1-10</u>		LOCATION <u>Coldwater, S. to Jct</u>	COUNTY <u>Comanche</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)				<u>2 1/2, 3 1/2, 4 1/2</u>				

CONTRACTOR Duke S OWNER R.J. Patrick Operation Co.

TYPE OF JOB Surface

HOLE SIZE 12 1/4 TD 735 CEMENT AMOUNT ORDERED

CASING SIZE 8 1/2 x 24 DEPTH 730 250 sx 6 1/2 3S (+3/4cc + 1/4" Flk-seal

TUBING SIZE DEPTH 100 sx CLASS A + 3/4cc + 2 1/2 gel

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 700 MINIMUM

MEAS. LINE SHOE JOINT 42 1/8

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 43 1/2 BBLs freshwater

EQUIPMENT

PUMP TRUCK CEMENTER Carl Baldwin

233-302 HELPER Mark B

BULK TRUCK

214-314 DRIVER Dave W.

BULK TRUCK

DRIVER

COMMON @

POZMIX @

GEL @

CHLORIDE @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

SERVICE

Pipe on bottom, break circulation.
2 1/2 BBLs freshwater, 250 sx
KS 3S (+3/4cc + 1/4" Flk-seal + 100 sx A 3/4)
Cover in, switch valve + Release plug.
Displace with 43 1/2 BBLs freshwater
Bump plug + Float held
Circulate 100 sx to pit

DEPTH OF JOB 730

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE @

PLUG Rubber @

@

@

TOTAL

CHARGE TO: R.J. Patrick Operating Co.

STREET

CITY STATE ZIP

FLOAT EQUIPMENT

@

@

@

@

TOTAL

To Allied Cementing Co., Inc.

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TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

SIGNATURE R.J. Patrick

R.J. Patrick

PRINTED NAME

ALLIED CEMENTING CO., INC.

CEMENTING LOG

STAGE NO.

ORIGINAL

Date 5-23 District Med Lodge Ticket No. 1498
 Company RJ Patrick Rig Duke 5
 Lease HRD Well No. 1-10
 County Comanche State KS
 Location Caldwells site Field 10-335-19W

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 8 7/8 Type _____ Weight 24 Collar _____

Casing Depths: Top KB Bottom 130

Drill Pipe Size _____ Weight _____ Collars _____
 Open Hole Size _____ T.D. _____ ft P.B. to _____ ft

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 0.025 Lin. ft./Bbl. 13.60
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time _____ hrs. Type 65.35 (43% C)
1/4" FK seal Excess _____
 Amt. 250 Sks Yield 1.97 ft³/sk Density 12.5 PPG _____

TAIL: Pump Time _____ hrs. Type Class A + 3% C
2 1/2 gal Excess _____
 Amt. 100 Sks Yield 1.34 ft³/sk Density 15.2 PPG _____

WATER: Lead 10.9 gals/sk Tail 6.51 gals/sk Total _____ Bbls _____

Pump Trucks Used 233-302 MK/K D
 Bulk Equip. 214-314 Duke W

Float Equip. Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type AFU Janser Depth _____
 Centralizers: Quantity _____ Plugs Top Rubber Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type Freshwater Amt. 43 1/2 Bbls Weight 8.34 PPG _____
 Mud Type _____ Weight _____ PPG _____

COMPANY REPRESENTATIVE Joe Livingston

CEMENTER Carl Baldwin

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
6:30 Am						Pipe on bottom, break circulation.
7:04	100		3	5	5	start fresh water
7:05	100		91	88	5	pump 250 sk lead cement
7:21	150		115	24		100 sk tail cement
7:26	50					switch valves + Release plug
7:27					3	start displacement
	100		125	10	5	steady rate
	350		155	30	3	slow rate
	350		158 1/2	3 1/2	-	displacement in
7:40	700			43 1/2 total		Release plug
						Release pressure + Float Held

FINAL DISP. PRESS. 350 PSI BUMP PLUG TO 700 PSI BLEEDBACK 1/2 BBLs THANK YOU

COPY

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 6528

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Address P O Box 1157

City/State/Zip Liberal, Kansas 67905-1157

Purchaser: Kansas Gas Supply

Operator Contact Person: R. J. Patrick

Phone (316) 624-8483

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License: 5929

Wellsite Geologist: Marvin Harvey

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening _____ Re-perf. _____ Conv. to Inj/SWD _____
Plug Back _____ PBDT _____
Commingled _____ Docket No. _____
Dual Completion _____ Docket No. _____
Other (SWD or Inj?) _____ Docket No. _____

05/22/00 06-07-00 06-14-00
Spud Date Date Reached TD Completion Date

API NO. 15- 033-21095 0000

County Comanche County, Kansas

NE - SE - _____ Sec. 10 Twp. 33S Rge. 19 ^E _W

1960 Feet from N (circle one) Line of Section

700 Feet from E _W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner: 2081
NE, SE NW or SW (circle one)

Lease Name Donald Herd Well # 2-10

Field Name Wildcat

Producing Formation Mississippian

Stratigraphic Unit: Ground 2018 KB 2029

Depth 6136' PBDT _____

Point of Surface Pipe Set and Cemented at 730 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 730

feet depth to surface w/ 350 sx cmt.

Drilling Fluid Management Plan: ALT 1 JKR 7-14-00
(Data must be collected from the Reserve Pit)

Chloride content 22000 ppm Fluid volume 1800 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name: KBW Oil & Gas

Lease Name Harmon SWD License No. 5993

NW Quarter Sec. 11 Twp. 33 S Rng. 20 ^E _W

County Comanche County, KS Docket No. 22304

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All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature RJ Patrick

Title Owner Date 06/19/00

Subscribed and sworn to before me this 19th day of June 19 2000

Notary Public Jayn Berry

Date Commission Expires 04/04/04

STATE NOTARY PUBLIC
JAYN BERRY
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Expires: 4-4-04

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
____ KCC _____ SWD/Rep _____ NGPA
____ KGS _____ Plug _____ Other
(Specify)

Operator Name R. J. Patrick Operating Company Lease Name Donald Herd Well # 2-10
 Sec. 10 Twp. 33 Rge. 19 East West
 County Comanche County, Kansas

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner Shale	Top 4328	Datum 2301
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lansing	4517	2490
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Kansas City	4756	2729
		Marmaton	5024	2997
		Pawnee	5123	3096
		Ft. Scott	5159	3132
		Cherokee Shale	5168	3141
		Mississippian	5264	3237

List All E.Logs Run: Dual Compensated Porosity, Dual Induction, Micro, Sonic Porosity and Cement Bond Log.

Copy of 6 DST Enclosed.

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Conductor		20"		60'	Grout		
Surface	12-1/4"	8-5/8"	24#	730'	Lite Class A	250 100	3% cc 3%cc 2%gel
Production	7-7/8"	4-1/2"	11.60#	5400'	50/50 Poz	150	18% salt

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	5274' to 5280' & 5294' to 5300'	500 gal 15% & 2500 gal 7 1/2%	5274 to 5300

TUBING RECORD Size 2 3/8 Set At 5128' Packer At 5136' Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. June 13-2000 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	0	0	2,000,000	pd	0			

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION 5274-5280' & 5294-5300' Production Interval _____

Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

WELL NAME: Herd #2-10
COMPANY: R.J. Patrick Operating Co.
LOCATION: 10-33s-19w
Comanche co Kansas
DATE: 6/8/00

ORIGINAL

--
/c
L
3

1

ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : R.J.Patrick Oper.Co.

DATE 05-30-000

WELL NAME: Herd #2-10

KB 2029.00 ft

TICKET NO: 12854 DST #1

LOCATION : 10-33s-19w Comanche co KS

GR 2018.00 ft

FORMATION: Altamont

INTERVAL : 5073.00 To 5086.00 ft

TD 5086.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----		
PF	0	Rec.	10248	10248	2342		PF Fr.	to	hr
SI	0	Range(Psi)	4400.0	4400.0	4995.0	0.0	IS Fr.	to	hr
SF	0	Clock(hrs)	12 hr	12 hr	batt.		SF Fr.	to	hr
FS	0	Depth(ft)	5083.0	5083.0	5078.0	0.0	FS Fr.	to	hr

	Field	1	2	3	4		
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED	2347 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM	hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN	hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED	0030 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT	0130 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0		
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0		
G. Final Hydro	0.0	0.0	0.0	0.0	0.0		
Inside/Outside	0	0	I	T			

RECOVERY

Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP
 0.00 ft of Gas in pipe.
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of EST.FT. of PAY-----4
 SALINITY 8000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----
 Tool Wt. 2100.00 lbs
 Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 0.00 lbs
 Initial Str Wt 0.00 lbs
 Unseated Str Wt 0.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 1100.00 ft

BLOW DESCRIPTION

IF:n/a

ISI:

FF:n/a

FSI:

SAMPLES: None

SENT TO:Caraway/Liberal

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/cf
 Vis. 57.00 S/L
 W.L. 8.00 in3
 F.C. 0.20 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 121.00 F
 Hole Condition poor
 % Porosity 10.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 N
 Cushion Type None
 Reversed Out N
 Tool Chased N
 Tester Gary Pevoteaux
 Co. Rep. Marvin Harvey
 Contr. Duke Drlg.
 Rig # 5
 Unit #
 Pump T. LCM 6 #/bl

Test Successful: N

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Herd #2-10

LOCATION : 10-33s-19w Comanche co KS

TICKET No. 12854 D.S.T. No. 1 DATE 05-30-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 13

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 40

D.C. ABOVE TOOLS.Stands0 Single Total 0

D.P. ABOVE TOOLS.Stands19 Single Total 1100

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 1140

TOTAL DEPTH 5086

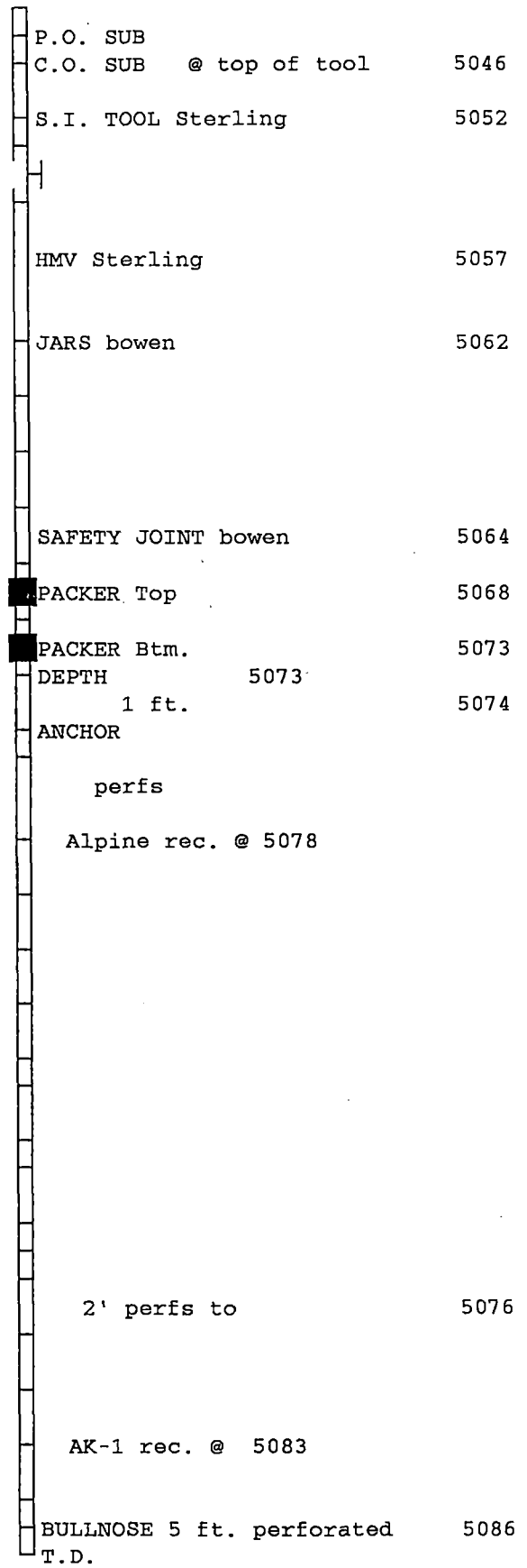
TOTAL DRILL PIPE ABOVE K.B. 4

REMARKS:

Comments:Hit bridge @ approx. 1100'. Tried several times to break through but were unsuccessful. MISRUN!

FLUID SAMPLER DATA (not run)

GAS----- cubic ft
 OIL----- ML.
 MUD----- ML.
 WATER----- ML.
 OTHER-----
 PRESSURE----- PSI
 Rw ----- ohms @ deg. F.
 CHLORIDES----- ppm.
 GRAVITY----- deg.API



TEST HISTORY

12854 DST#1 HERD #2-10 R.J.PATRICK OPERATING CO.

Flag Points
t(Min.) P(PSIg)
A: 0.00 608.89
Q: 0.00 92.48

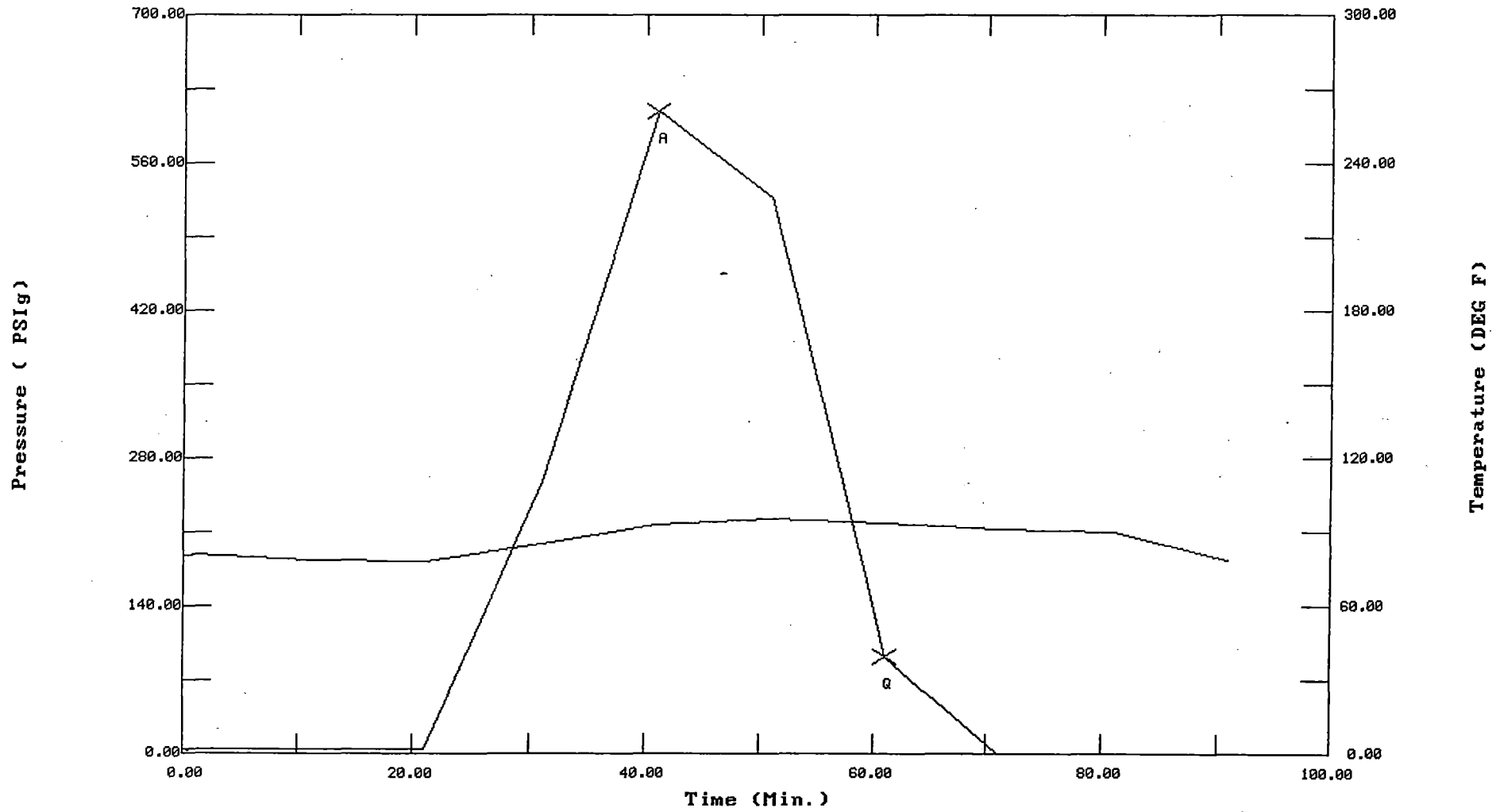
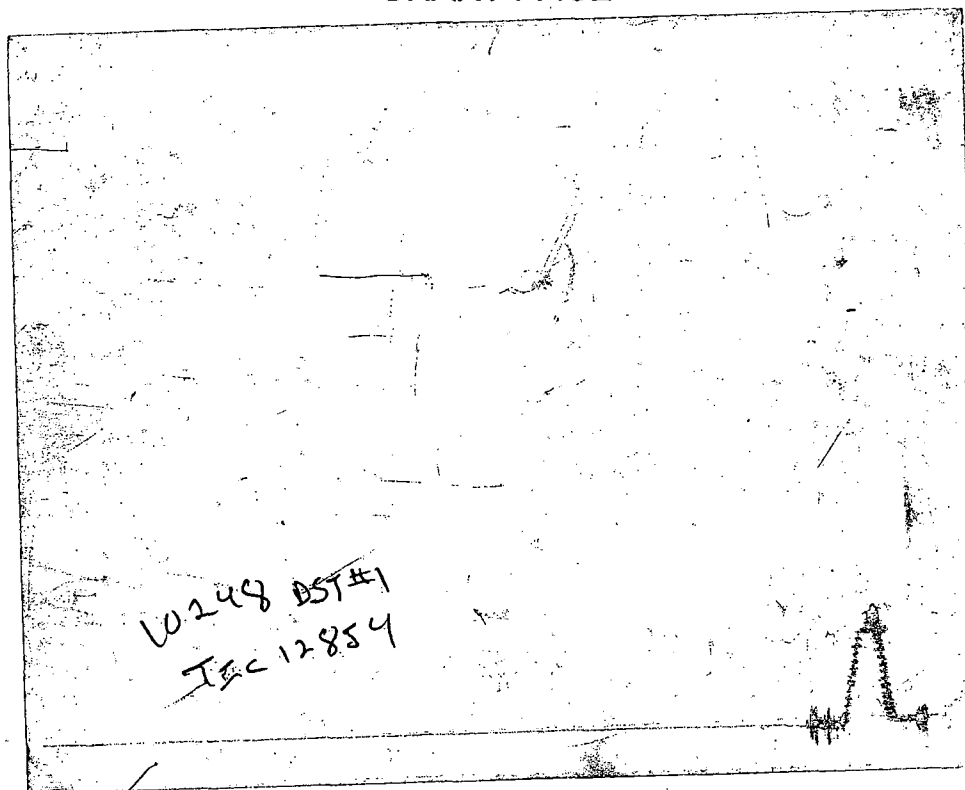


CHART PAGE



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

N^o 12854

Well Name & No. <u>Herd #2-10</u>		Test No. <u>1</u>	Date <u>5-30-2000</u>
Company <u>R.S. Patrick's Oper. Co.</u>		Zone Tested <u>Altamont</u>	
Address <u>P.O. Box 1157, Liberal 16-6905</u>		Elevation <u>2029</u> KB <u>2018</u> -GL	
Co. Rep / Geo. <u>Maxim Harvey</u>		Cont. <u>Duke Dalg. #5</u>	Est. Ft. of Pay <u>4</u> Por. <u> </u> %
Location: Sec. <u>10</u>	Twp. <u>33^S</u>	Rge. <u>19^W</u>	Co. <u>Comanche</u> State <u>Ks</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>5073 - 5086'</u>	Initial Str Wt./Lbs. <u>N/A</u>	Unseated Str Wt./Lbs. <u>N/A</u>
Anchor Length <u>13'</u>	Wt. Set Lbs. <u>N/A</u>	Wt. Pulled Loose/Lbs. <u>N/A</u>
Top Packer Depth <u>5068</u>	Tool Weight <u>2100#</u>	
Bottom Packer Depth <u>5073'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>5086'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>None</u>
Mud Wt. <u>9.1</u> LCM <u>LT</u> Vis. <u>57</u> WL <u>8.0cc</u>	Drill Pipe Size <u>4 1/2" x 4</u>	Ft. Run <u>1100'</u>

Blow Description None

COMMENT: Hit bridge @ approx. 1100'. Tried several times to break through but were unsuccessful.

Mission!

Recovery — Total Feet <u>0</u>	GIP <u>0</u>	Ft. in DC <u>0</u>	Ft. in DP <u>0</u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
BHT <u>N/A</u> °F Gravity <u> </u>	°API D@ <u>N/A</u>	°F Corrected Gravity <u>N/A</u>	°API <u> </u>
RW <u>N/A</u> @ <u> </u> °F	Chlorides <u> </u> ppm	Recovery Chlorides <u>8,000</u> ppm	System <u> </u>

	AK-1	Alpine	
(A) Initial Hydrostatic Mud			PSI Recorder No. <u>2342</u> T-On Location <u>2307</u>
(B) First Initial Flow Pressure	Mission	Mission	PSI (depth) <u>5078'</u> T-Started <u>2347</u>
(C) First Final Flow Pressure			PSI Recorder No. <u>10248</u> T-Open <u>N/A</u>
(D) Initial Shut-In Pressure			PSI (depth) <u>5083'</u> T-Pulled <u>0030</u>
(E) Second Initial Flow Pressure			PSI Recorder No. <u> </u> T-Out <u>0130</u>
(F) Second Final Flow Pressure			PSI (depth) <u> </u> T-Off Location <u>N/A</u>
(G) Final Shut-in Pressure			PSI Initial Opening <u> </u> Test <u>Mission</u> <u>600'</u>
(Q) Final Hydrostatic Mud			PSI Initial Shut-in <u> </u> Jars <u>200'</u>
			Final Flow <u> </u> Safety Joint <u>30'</u>
			Final Shut-in <u> </u> Straddle <u> </u>
			Circ. Sub <u> </u>
			Sampler <u> </u>
			Extra Packer <u> </u>
			Elec. Rec. <u>150'</u>
			Mileage <u> </u>
			Other <u> </u>
			TOTAL PRICE \$ <u>1000</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Our Representative Cary P. [Signature]

TRILOBITE TESTING L.L.C.

OPERATOR : R.J.Patrick Oper.Co.

DATE 05-31-000

WELL NAME: Herd #2-10

KB 2029.00 ft

TICKET NO: 12855

DST #2

LOCATION : 10-33s-19w Comanche co KS

GR 2018.00 ft

FORMATION: Altamont

INTERVAL : 5073.00 To 5086.00 ft

TD 5086.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0940 to 1010 hr
SI 60 Range (Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1010 to 1110 hr
SF 45 Clock (hrs)	12 hr	12 hr	batt.			SF Fr. 1110 to 1155 hr
FS 120 Depth (ft)	5083.0	5083.0	5078.0	0.0	0.0	FS Fr. 1155 to 1355 hr

	Field	1	2	3	4	
A. Init Hydro	2503.0	2536.0	2503.0	0.0	0.0	T STARTED 0705 hr
B. First Flow	12.0	15.0	26.0	0.0	0.0	T ON BOTM 0930 hr
B1. Final Flow	16.0	1.0	23.0	0.0	0.0	T OPEN 0940 hr
C. In Shut-in	341.0	328.0	354.0	0.0	0.0	T PULLED 1357 hr
D. Init Flow	14.0	8.0	22.0	0.0	0.0	T OUT 1610 hr
E. Final Flow	14.0	8.0	25.0	0.0	0.0	
F. Fl Shut-in	659.0	649.0	671.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2437.0	2348.0	2387.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 90000.00 lbs
						Initial Str Wt 74000.00 lbs
						Unseated Str Wt 74000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 120.00 ft
						D.P. Length 4951.00 ft

RECOVERY

Tot Fluid 20.00 ft of 20.00 ft in DC and 0.00 ft in DP
 530.00 ft of Gas in pipe.
 20.00 ft of Drilling mud
 0.00 ft of 100% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----4
 SALINITY 8000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	57.00 S/L
W.L.	8.00 in3
F.C.	0.20 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:
 Fair to strong blow. Bottom of bucket
 in 29 minutes.

Initial Shut-In:
 No blow.

Final Flow:
 Strong blow. Bottom of bucket in 8
 minutes.

Final Shut-In:
 No blow.

SAMPLES: None
 SENT TO: Caraway/Liberal

Amt. of fill	1.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	Fair
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Marvin Harvey
Contr.	Duke Drlg.
Rig #	5
Unit #	
Pump T.	LCM 6 #/bl

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Herd #2-10

LOCATION : 10-33s-19w Comanche co KS

TICKET No. 12855 D.S.T. No. 2 DATE 05-31-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 13

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 40

D.C. ABOVE TOOLS.Stands2 Single Total 120

D.P. ABOVE TOOLS.Stands79 Single 1 Total 4951

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5111

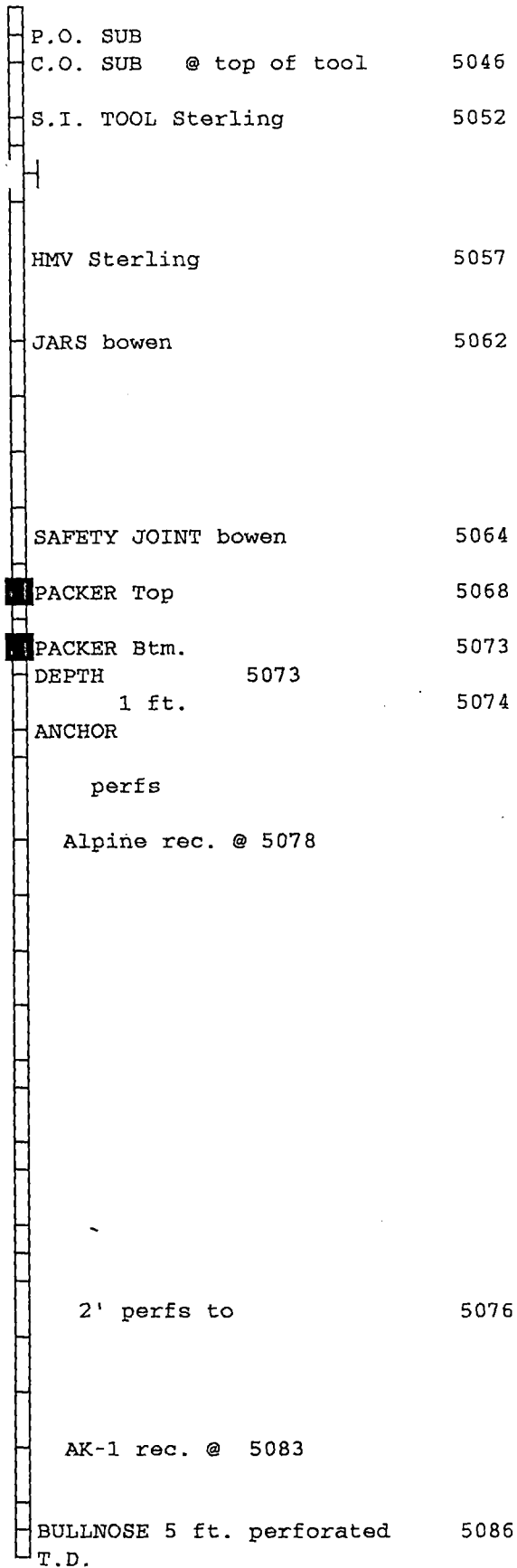
TOTAL DEPTH 5086

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:
Comments:

FLUID SAMPLER DATA (not run)

GAS-----		cubic ft
OIL-----		ML.
MUD-----		ML.
WATER-----		ML.
OTHER-----		
PRESSURE-----		PSI
Rw -----	ohms @	deg. F.
CHLORIDES-----		ppm.
GRAVITY-----		deg.API



TEST HISTORY

12855 DST#2 HERD #2-10 R.J.PATRICK OPERATING CO.

Flag Points

	t (Min.)	P (PSig)
A:	0.00	2503.14
B:	0.00	26.34
C:	32.00	22.90
D:	59.50	353.75
E:	0.00	21.98
F:	44.50	24.75
G:	120.50	670.74
Q:	0.00	2387.23

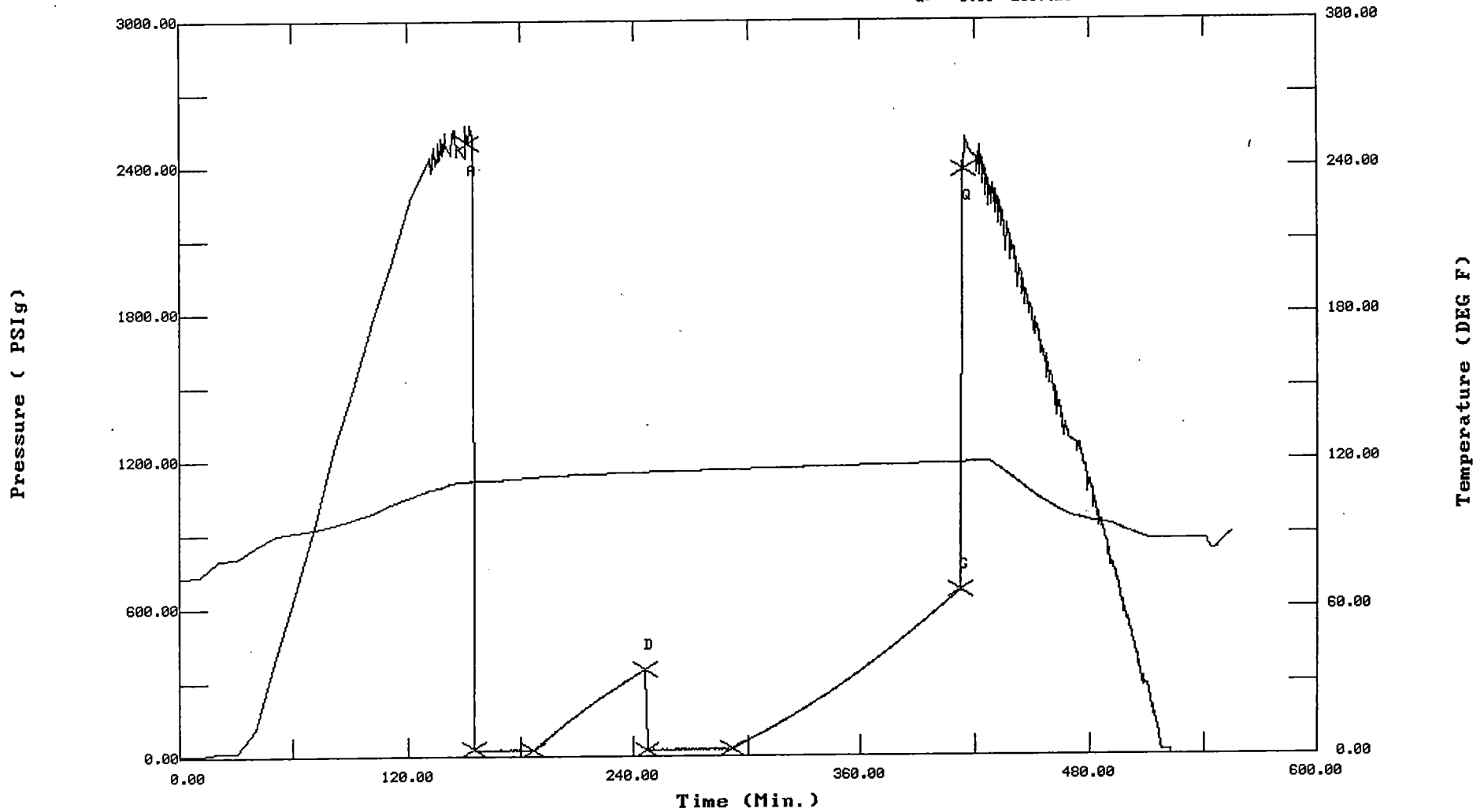
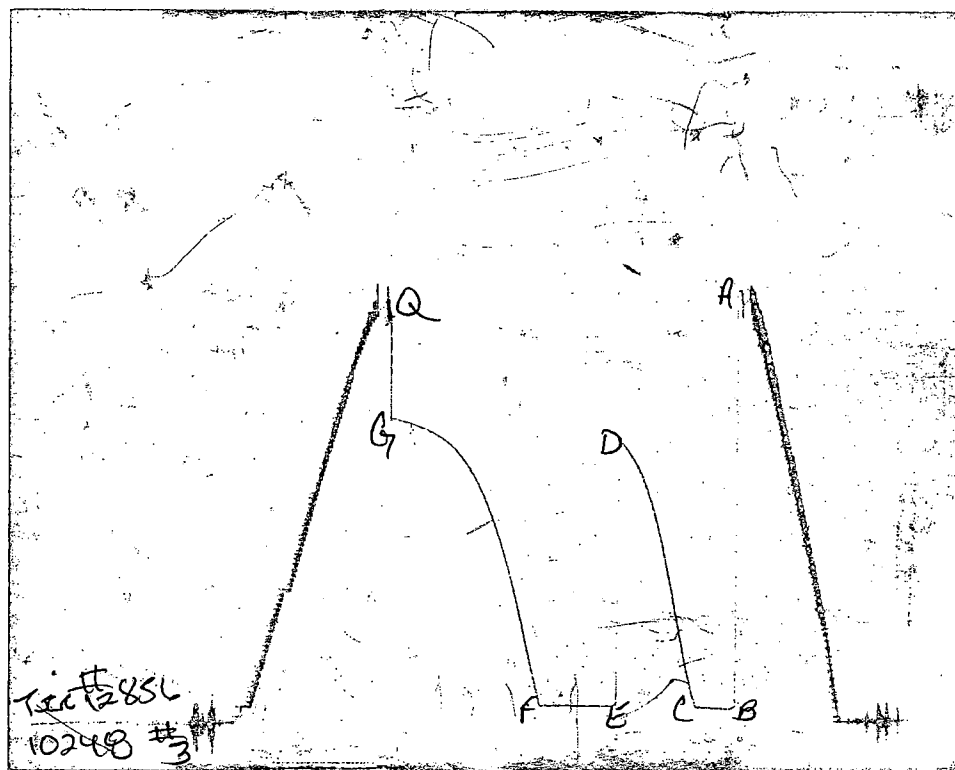


CHART PAGE



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

N^o 12856

Well Name & No.	<u>Herd # 2-10</u>	Test No.	<u>3</u>	Date	<u>6-1-2000</u>
Company	<u>R.S. Patrick Oper. Co.</u>	Zone Tested	<u>Pawnee</u>		
Address	<u>P.O. Box 457, Lined Rte. 67905</u>	Elevation	<u>2029 KB</u>	<u>2018 GL</u>	
Co. Rep / Geo.	<u>Marvin Harvey</u>	Cont.	<u>Duke Daly #5</u>	Est. Ft. of Pay	<u>8</u> Por. <u> </u> %
Location: Sec.	<u>10</u>	Twp.	<u>33 S</u>	Rge.	<u>19 W</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u>
		Evaluation (Y, N)	<u> </u>		

Interval Tested	<u>S088 - S152'</u>	Initial Str Wt./Lbs.	<u>14,000</u>	Unseated Str Wt./Lbs.	<u>18,000</u>
Anchor Length	<u>64'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>96,000</u>
Top Packer Depth	<u>S083'</u>	Tool Weight	<u>2100 #</u>		
Bottom Packer Depth	<u>S088'</u>	Hole Size -- 7 7/8"	<input checked="" type="checkbox"/>	Rubber Size -- 6 3/4"	<input checked="" type="checkbox"/>
Total Depth	<u>S152'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>120</u>
Mud Wt.	<u>9.1 LCM 4#</u>	Drill Pipe Size	<u>4 1/2" X.H.</u>	Ft. Run	<u>4951</u>
Vis.	<u>57</u>	WL	<u>8.0</u>		
Blow Description	<u>IF: Strong blow. BOB in 12 mins.</u>				
	<u>ISI: No blow.</u>				
	<u>FF: Strong blow. BOB in 3-5 secs. FSI: No blow</u>				

Recovery -- Total Feet	<u>130</u>	GIP	<u>310</u>	Ft. in DC	<u>120</u>	Ft. in DP	<u>10</u>
Rec.	<u>130</u>	Feet Of	<u>Heavy Mud.</u>	%gas	%oil	%water	%mud
Rec.		Feet Of	<u> </u>	%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	<u>120</u>	°F Gravity	<u>N/A</u>	°API D@	<u> </u>	°F Corrected Gravity	<u>N/A</u>
RW	<u>N.C.</u>	@	<u> </u>	°F Chlorides	<u>8,000</u>	ppm Recovery	Chlorides <u>8,000</u> ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2536</u>	<u>2519</u>		<u>2342</u>	<u>0330</u>
(B) First Initial Flow Pressure	<u>57</u>	<u>48</u>		<u>5098'</u>	<u>0350</u>
(C) First Final Flow Pressure	<u>73</u>	<u>60</u>		<u>10248</u>	<u>0555</u>
(D) Initial Shut-in Pressure	<u>1655</u>	<u>1657</u>		<u>5149'</u>	<u>1025</u>
(E) Second Initial Flow Pressure	<u>73</u>	<u>51</u>		<u> </u>	<u>1250</u>
(F) Second Final Flow Pressure	<u>78</u>	<u>68</u>		<u> </u>	<u>1330</u>
(G) Final Shut-in Pressure	<u>1794</u>	<u>1776</u>		Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>800^{oc}</u>
(Q) Final Hydrostatic Mud	<u>2426</u>	<u>2374</u>		Initial Shut-in <u>40</u>	Jars <input checked="" type="checkbox"/> <u>200^{oc}</u>
				Final Flow <u>40</u>	Safety Joint <input checked="" type="checkbox"/> <u>50^{oc}</u>
				Final Shut-in <u>120</u>	Straddle <u> </u>
				<u>4</u>	Circ. Sub <u> </u>
					Sampler <u> </u>
					Extra Packer <u> </u>
					Elec. Rec. <input checked="" type="checkbox"/> <u>150^{oc}</u>
					Mileage <u> </u>
					Other <u> </u>
					TOTAL PRICE \$ <input checked="" type="checkbox"/> <u>1200</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Marvin Harvey
 Our Representative Ray Proctor

TRILOBITE TESTING L.L.C.

OPERATOR : R.J.Patrick Oper.Co.

DATE 06-01-000

WELL NAME: Herd #2-10

KB 2029.00 ft

TICKET NO: 12857

DST #4

LOCATION : 10-33s-19w Comanche co KS

GR 2018.00 ft

FORMATION: Ft.Scott

INTERVAL : 5150.00 To 5172.00 ft

TD 5172.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0016 to 0046 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0046 to 0146 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0146 to 0246 hr
FS 120 Depth(ft)	5169.0	5169.0	5155.0	0.0	0.0	FS Fr. 0246 to 0446 hr

	Field	1	2	3	4	
A. Init Hydro	2492.0	2481.0	2509.0	0.0	0.0	T STARTED 2210 hr
B. First Flow	9.0	18.0	19.0	0.0	0.0	T ON BOTM 0010 hr
B1. Final Flow	9.0	10.0	21.0	0.0	0.0	T OPEN 0016 hr
C. In Shut-in	1850.0	1822.0	1848.0	0.0	0.0	T PULLED 0446 hr
D. Init Flow	14.0	10.0	18.0	0.0	0.0	T OUT 0650 hr
E. Final Flow	14.0	10.0	22.0	0.0	0.0	
F. Fl Shut-in	1854.0	1843.0	1864.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2428.0	2443.0	2452.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid	30.00 ft of	30.00 ft in DC and	0.00 ft in DP	Unseated Str Wt	76000.00 lbs
0.00	ft of Gas in all fluid free pipe.			Bot Choke	0.75 in
30.00	ft of Drilling mud			Hole Size	7.88 in
0.00	ft of 100% mud			D Col. ID	2.25 in
0.00	ft of			D. Pipe ID	3.80 in
0.00	ft of			D.C. Length	120.00 ft
0.00	ft of			D.P. Length	5010.00 ft
0.00	ft of Rw n.c. ohms @	degrees F.			
0.00	ft of EST.FT. of PAY-----3				
SALINITY	8000.00 P.P.M.	A.P.I. Gravity	0.00		

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Bottom of bucket in
 3 1/2 minutes.

Initial Shut-In:
 No blow.

Final Flow.
 Strong blow. Bottom of bucket in 2
 seconds. Gas to surface in 5 1/2
 minutes. (See gas volume report).

Final Shut-In:
 No blow.

SAMPLES: Gas sample
 SENT TO: Caraway/Liberal

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	50.00 S/L
W.L.	8.80 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	116.00 F
Hole Condition	Fair
% Porosity	12.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Marvin Harvey
Contr.	Duke Drlg.
Rig #	5
Unit #	
Pump T.	LCM 6 #/bl

Test Successful: Y

GAS RECOVERY

COMPANY: R.J.Patrick Oper.Co.

DATE: 06-01-000

WELL NAME: Herd #2-10

KB Elev: 2029.00 ft TICKET #12857 DST #4

WELL LOCATION: 10-33s-19w Comanche co KS

GR Elev: 2018.00 ft FORMATION: Ft.Scott

INTERVAL Fr.: 5150.00 To 5172.00 T.D.: 5172.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.25	0	16	6720.0
20	0.25	0	20	7510.0
30	0.25	0	20	7510.0
40	0.25	0	20	7510.0
50	0.25	0	20	7510.0
60	0.25	0	20	7510.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Herd #2-10

LOCATION : 10-33s-19w Comanche co KS

TICKET No. 12857 D.S.T. No. 4 DATE 06-01-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 22

TOTAL TOOL 49

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 49

D.C. ABOVE TOOLS.Stands2 Single Total 120

D.P. ABOVE TOOLS.Stands80 Single 1 Total 5010

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5179

TOTAL DEPTH 5172

TOTAL DRILL PIPE ABOVE K.B. 7

REMARKS:
Comments:

FLUID SAMPLER DATA (not run)

GAS----- cubic ft
 OIL----- ML.
 MUD----- ML.
 WATER----- ML.
 OTHER-----
 PRESSURE----- PSI
 Rw ----- ohms @ deg. F.
 CHLORIDES----- ppm.
 GRAVITY----- deg.API

P.O. SUB	
C.O. SUB @ top of tool	5123
S.I. TOOL Sterling	5129
HMV Sterling	5134
JARS bowen	5139
SAFETY JOINT bowen	5141
PACKER Top	5145
PACKER Btm.	5150
DEPTH 5150	
1 ft.	5151
ANCHOR	
perfs	
Alpine rec. @ 5155	
16' perfs to	5167
AK-1 rec. @ 5169	
BULLNOSE 5 ft. perforated T.D.	5172

TEST HISTORY

12857 DST#4 HERD #2-10 R.J.PATRICK OPERATING CO.

Flag Points
t(Min.) P(PSig)

A:	0.00	2508.93
B:	0.00	19.21
C:	30.00	20.89
D:	60.50	1848.25
E:	0.00	18.12
F:	59.50	21.64
G:	120.00	1864.36
Q:	0.00	2453.29

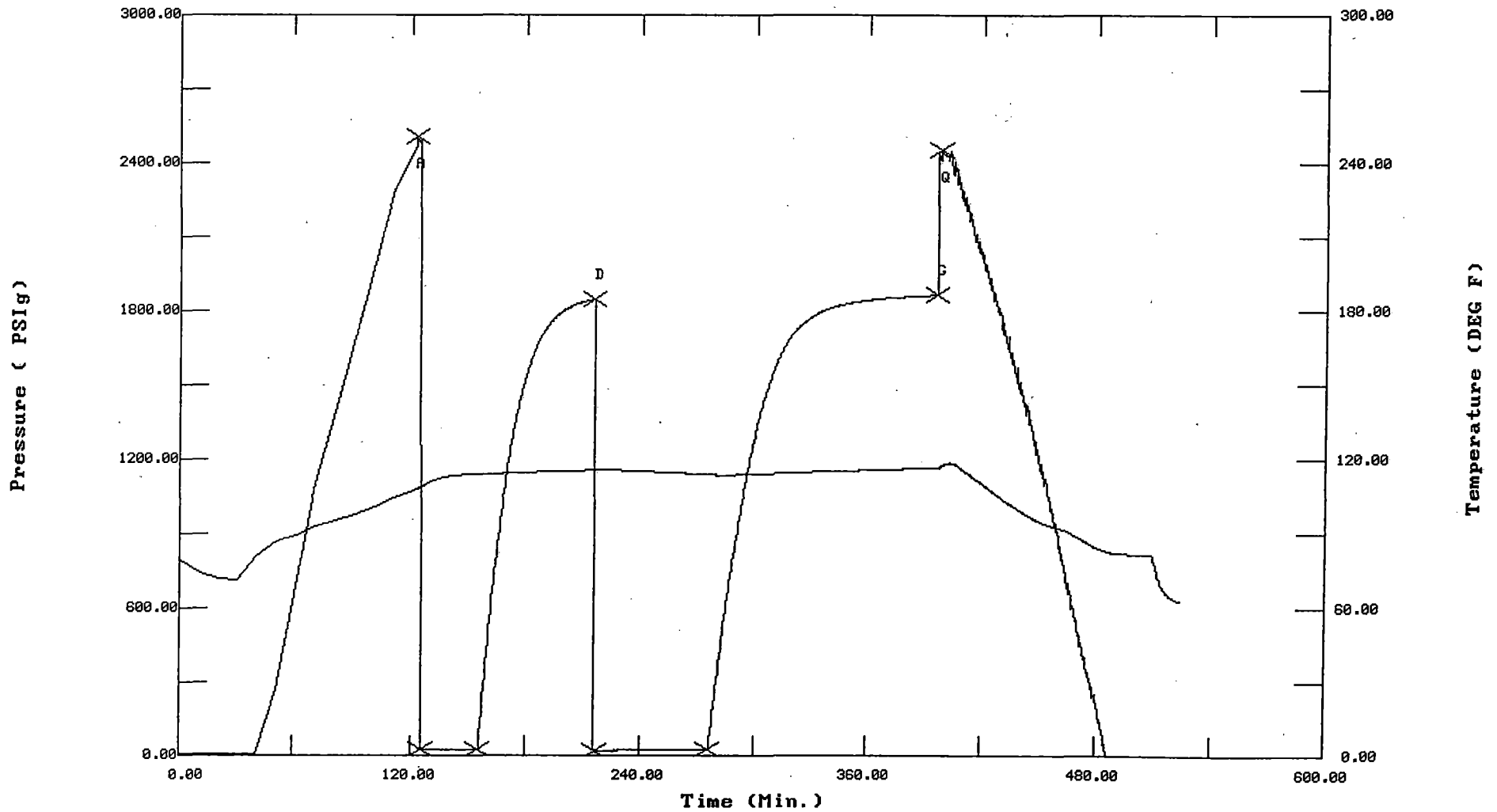
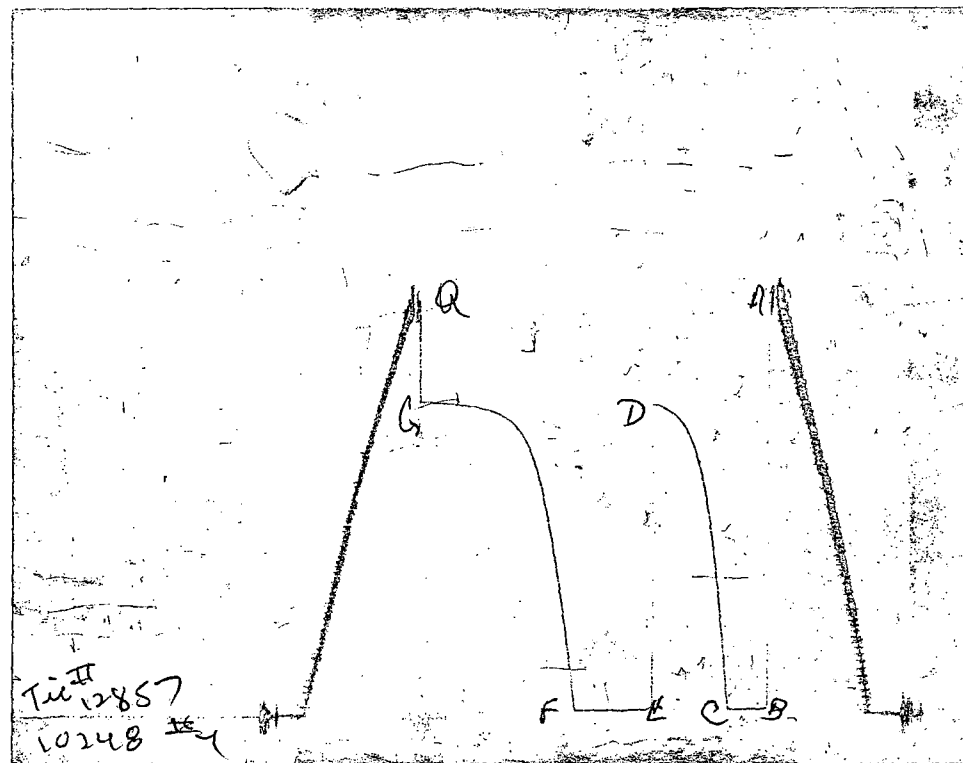


CHART PAGE



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

No 12857

Well Name & No. <u>Herd # 2-10</u>	Test No. <u>4</u>	Date <u>6-1-2000</u>
Company <u>R.S. Patrick Oper. Co.</u>	Zone Tested <u>Fr. Drift</u>	
Address <u>Liberal Ks. 67905</u>	Elevation <u>2029</u>	KB <u>2018</u> GL
Co. Rep / Geo. <u>Maurin Hawey</u>	Cont. <u>Duke Dely. #s</u>	Est. Ft. of Pay <u>3</u> Por. <u> </u> %
Location: Sec. <u>10</u>	Twp. <u>33S</u>	Rge. <u>19W</u> Co. <u>Comanche</u> State <u>Ks.</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>5150 - 5172'</u>	Initial Str Wt./Lbs. <u>76,000</u>	Unseated Str Wt./Lbs. <u>76,000</u>
Anchor Length <u>22'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>100,000</u>
Top Packer Depth <u>5145'</u>	Tool Weight <u>2100 #</u>	
Bottom Packer Depth <u>5150'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>5172'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>120</u>
Mud Wt. <u>9.0</u> LCM <u>C#</u> Vis. <u>50</u> WL <u>8.8 cc.</u>	Drill Pipe Size <u>4 1/2" x 11'</u>	Ft. Run <u>5010'</u>
Blow Description <u>IF: Strong below, BOB in 3 1/2 mins, ISI, No blow</u>		

FF: Strong below. BOB in 2 secs. GTS in 5 1/2 mins.
(See gas volume report) EST: No blow.

Recovery — Total Feet <u>30</u>	GIP <u>yes</u>	Ft. in DC <u>30</u>	Ft. in DP <u>0</u>	
Rec. <u>30</u> Feet Of <u>Dely. Mud</u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
BHT <u>11C</u> °F Gravity <u>N/A</u>	°API D@ <u> </u>	°F Corrected Gravity <u>N/A</u>	°API <u> </u>	
RW <u>N.C.</u> @ <u> </u>	°F Chlorides <u>2,000</u> ppm Recovery	Chlorides <u>8,000</u> ppm System		

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	2492	2509	<u>2342</u>	<u>2140</u>
(B) First Initial Flow Pressure	9	19	(depth) <u>5155'</u>	T-Started <u>2210</u>
(C) First Final Flow Pressure	9	21	Recorder No. <u>10248</u>	T-Open <u>0016</u>
(D) Initial Shut-in Pressure	1859	1848	(depth) <u>5169'</u>	T-Pulled <u>0496</u>
(E) Second Initial Flow Pressure	19	18	Recorder No. <u> </u>	T-Out <u>0650</u>
(F) Second Final Flow Pressure	14	22	(depth) <u> </u>	T-Off Location <u>0745</u>
(G) Final Shut-in Pressure	1859	1804	PSI Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>802</u>
(Q) Final Hydrostatic Mud	2428	2453	PSI Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>202</u>
			Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
			Final Shut-in <u>120</u>	Straddle <u> </u>
				Circ. Sub <u> </u>
				Sampler <u> </u>
				Extra Packer <u> </u>
				Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
				Mileage <u> </u>
				Other <u> </u>
				TOTAL PRICE \$ <input checked="" type="checkbox"/> <u>120</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Maurin Hawey
 Our Representative Gary Walker

TRILOBITE TESTING L.L.C.

OPERATOR : R.J.Patrick Oper.Co.

DATE 06-03-000

WELL NAME: Herd #2-10

KB 2029.00 ft

TICKET NO: 12858

DST #5

LOCATION : 10-33s-19w Comanche co KS

GR 2018.00 ft

FORMATION: Mississippi

INTERVAL : 5263.00 To 5356.00 ft

TD 5360.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0740 to 0810 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0810 to 0910 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0910 to 1010 hr
FS 120 Depth(ft)	5357.0	5357.0	5268.0	0.0	0.0	FS Fr. 1010 to 1210 hr

	Field	1	2	3	4	
A. Init Hydro	2647.0	2624.0	2616.0	0.0	0.0	T STARTED 0432 hr
B. First Flow	216.0	200.0	242.0	0.0	0.0	T ON BOTM 0730 hr
Bl. Final Flow	141.0	158.0	137.0	0.0	0.0	T OPEN 0740 hr
C. In Shut-in	1903.0	1893.0	1886.0	0.0	0.0	T PULLED 1212 hr
D. Init Flow	177.0	183.0	193.0	0.0	0.0	T OUT 1430 hr
E. Final Flow	125.0	138.0	116.0	0.0	0.0	
F. Fl Shut-in	1881.0	1886.0	1882.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2536.0	2533.0	2470.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 90000.00 lbs
						Initial Str Wt 78000.00 lbs
						Unseated Str Wt 80000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 120.00 ft
						D.P. Length 5139.00 ft

RECOVERY

Tot Fluid 80.00 ft of 80.00 ft in DC and 0.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 80.00 ft of Drilling mud
 0.00 ft of 100% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----10

SALINITY 9000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type Chemical
 Weight 9.00 lb/l
 Vis. 51.00 S/L
 W.L. 10.40 in3
 F.C. 0.20 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 114.00 F
 Hole Condition Fair
 % Porosity 18.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 N
 Cushion Type None
 Reversed Out N
 Tool Chased N
 Tester Gary Pevoteaux
 Co. Rep. Marvin Harvey
 Contr. Duke Drlg.
 Rig # 5
 Unit #
 Pump T. LCM 8 #/bl

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Gas to surface in 3 1/2 minutes. (see gas volume report)
 Initial Shut-In:
 No blow.

Final Flow:
 Strong blow. (see gas volume report)

Final Shut-In:
 No blow.

SAMPLES: Gas sample
 SENT TO: Caraway/Liberal

Test Successful: Y

GAS RECOVERY

COMPANY: R.J.Patrick Oper.Co.

DATE: 06-03-000

WELL NAME: Herd #2-10

KB Elev: 2029.00 ft TICKET #12858 DST #5

WELL LOCATION: 10-33s-19w Comanche Co KS

GR Elev: 2018.00 ft FORMATION: Mississippi

INTERVAL Fr.: 5263.00 To 5356.00 T.D.: 5360.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	21	0	517600.0
20	0.75	18	0	474000.0
30	0.75	17	0	459500.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	34	0	706600.0
20	0.75	25	0	575800.0
30	0.75	21	0	517600.0
40	0.75	20	0	503100.0
50	0.75	20	0	503100.0
60	0.75	20	0	503100.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Herd #2-10

LOCATION : 10-33s-19w Comanche co KS

TICKET No. 12858 D.S.T. No. 5 DATE 06-03-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 36

TOTAL TOOL 63

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 61

TOTAL ASSEMBLY 124

D.C. ABOVE TOOLS.Stands2 Single Total 120

D.P. ABOVE TOOLS.Stands82 Single 1 Total 5139

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5383

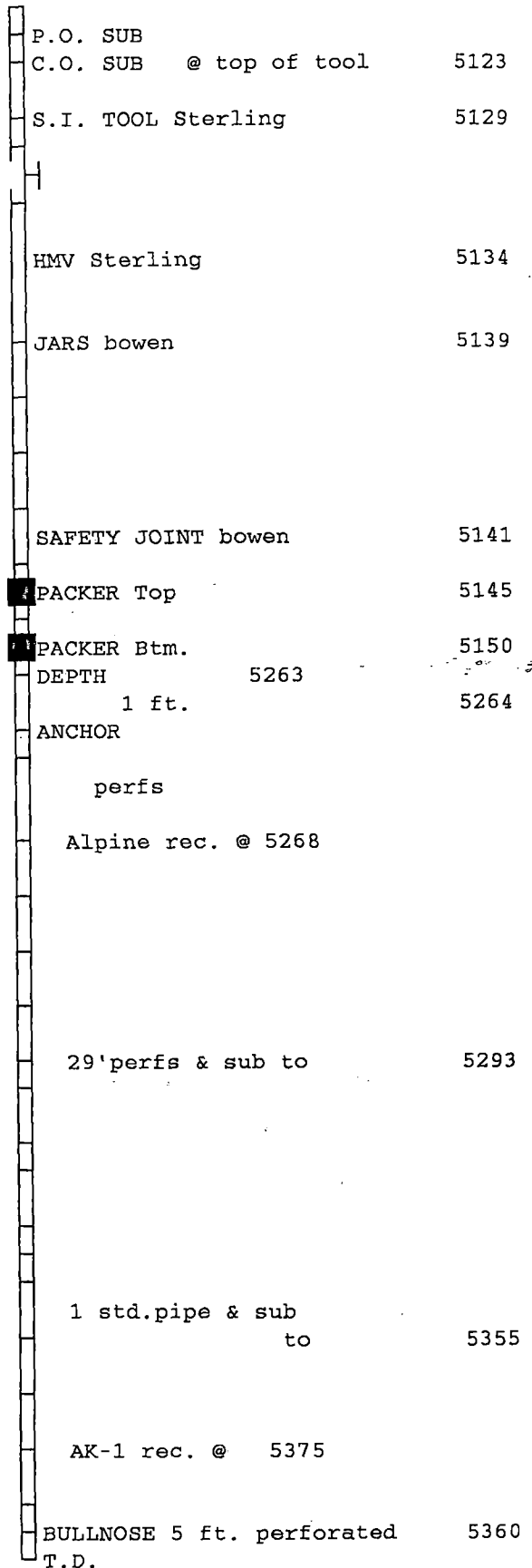
TOTAL DEPTH 5360

TOTAL DRILL PIPE ABOVE K.B. 23

REMARKS:
Comments:

FLUID SAMPLER DATA (not run)

GAS----- cubic ft
 OIL----- ML.
 MUD----- ML.
 WATER----- ML.
 OTHER-----
 PRESSURE----- PSI
 Rw ----- ohms @ deg. F.
 CHLORIDES----- ppm.
 GRAVITY----- deg.API



TEST HISTORY

12858 DST#5 HERD #2-10 R.J.PATRICK OPERATING CO.

Flag Points

t(Min.) P(PSig)

A:	0.00	2615.77
B:	0.00	241.62
C:	29.00	136.54
D:	80.50	1885.93
E:	0.00	192.52
F:	58.50	116.32
G:	121.00	1881.65
Q:	0.00	2469.82

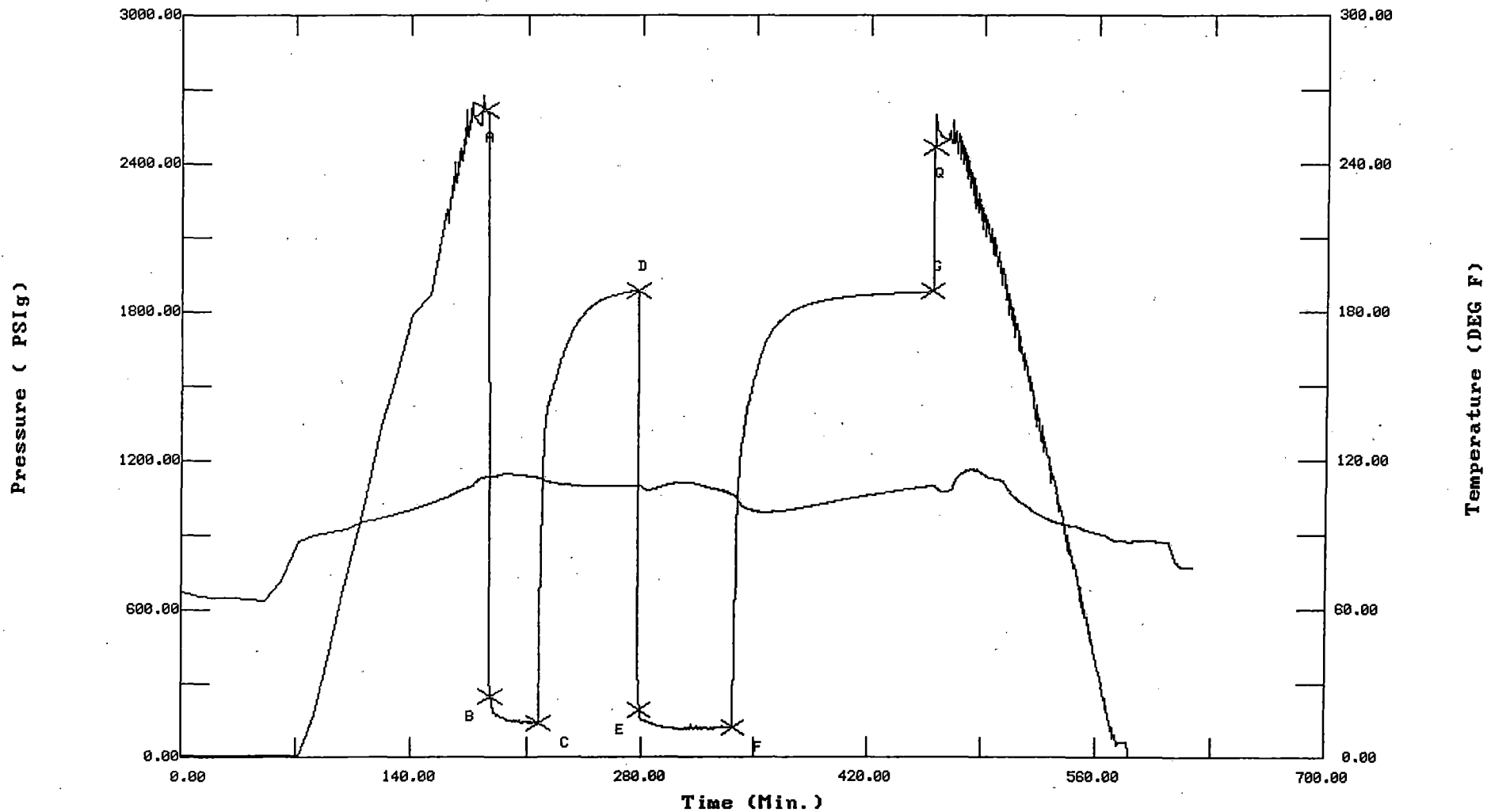
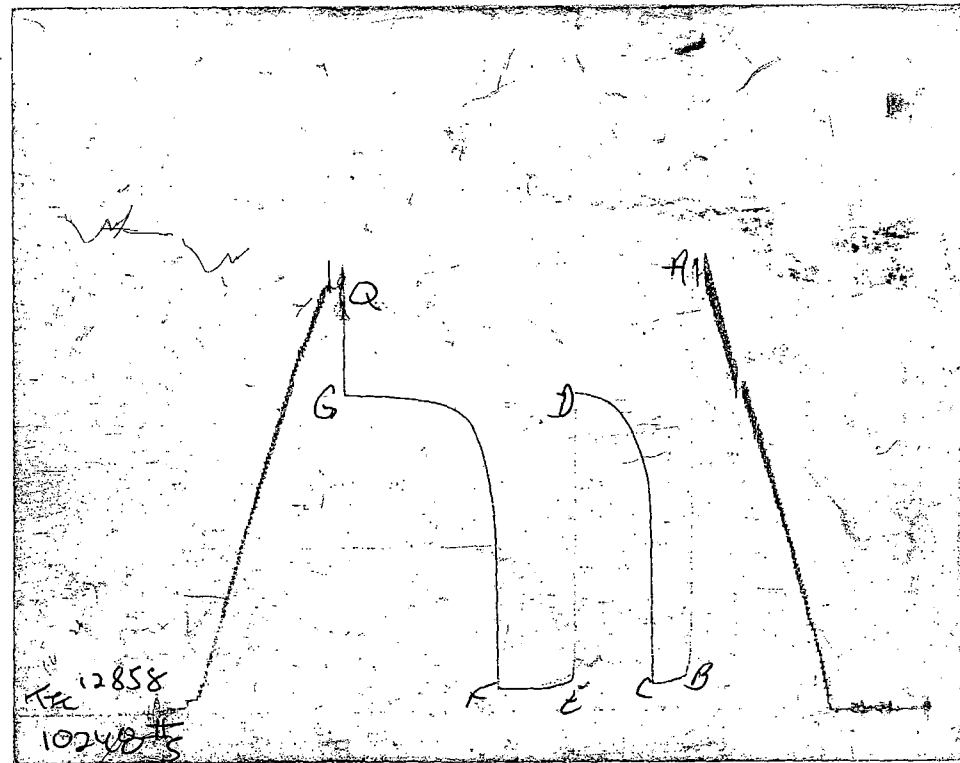


CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 12858

Well Name & No. <u>Herd #2-10</u>		Test No. <u>5</u>	Date <u>1-3-2000</u>
Company <u>R.S. Patrick Oper. Co.</u>		Zone Tested <u>Miss</u>	
Address <u>Liberal 16, 67905</u>		Elevation <u>2029 KB 2018 GL</u>	
Co. Rep / Geo. <u>Marvin Harvey</u>	Cont. <u>Duke Dault</u>	# <u>5</u>	Est. Ft. of Pay <u>10</u> Por. <u> </u> %
Location: Sec. <u>10</u>	Twp. <u>33^S</u>	Rge. <u>19^W</u>	Co. <u>Comanche</u> State <u>Ks.</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>5263 - 5360</u>	Initial Str Wt./Lbs. <u>78,000</u>	Unseated Str Wt./Lbs. <u>80,000</u>
Anchor Length <u>97'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>90,000</u>
Top Packer Depth <u>5258'</u>	Tool Weight <u>2100 #</u>	
Bottom Packer Depth <u>5263'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>5360'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>120</u>
Mud Wt. <u>9.0</u> LCM <u>8[#]</u> Vis. <u>SI</u> WL <u>10.4cc.</u>	Drill Pipe Size <u>4 1/2" x H</u>	Ft. Run <u>5139</u>
Blow Description <u>IF: Strong blow. GIS in 3 1/2 mins. (see gas volume report)</u>		
<u>ISI: No blow.</u>		
<u>FF: Strong blow. (see gas volume report) FSI: No blow.</u>		

Recovery — Total Feet <u>80</u> Fluid GIP <u>yes</u>	Ft. in DC <u>80</u>	Ft. in DP <u>0</u>		
Rec. <u>80</u> Feet Of <u>Dry Mud</u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
BHT <u>114</u> °F Gravity <u>N/A</u>	°API D@ <u> </u>	°F Corrected Gravity <u>N/A</u>	°API <u> </u>	
RW <u>N.C.</u> @ <u> </u> °F Chlorides <u>9,000</u> ppm Recovery	Chlorides <u>9,000</u> ppm System			

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2647</u>	<u>2616</u>	<u> </u>	<u>2342</u>	<u>0350</u>
(B) First Initial Flow Pressure	<u>216</u>	<u>242</u>	<u> </u>	(depth) <u>5268'</u>	T-Started <u>0432</u>
(C) First Final Flow Pressure	<u>141</u>	<u>137</u>	<u> </u>	Recorder No. <u>10248</u>	T-Open <u>0740</u>
(D) Initial Shut-In Pressure	<u>1903</u>	<u>1886</u>	<u> </u>	(depth) <u>5357'</u>	T-Pulled <u>1210</u>
(E) Second Initial Flow Pressure	<u>177</u>	<u>193</u>	<u> </u>	Recorder No. <u> </u>	T-Out <u>1430</u>
(F) Second Final Flow Pressure	<u>125</u>	<u>116</u>	<u> </u>	(depth) <u> </u>	T-Off Location <u>1520</u>
(G) Final Shut-in Pressure	<u>1881</u>	<u>1882</u>	<u> </u>	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>800</u>
(Q) Final Hydrostatic Mud	<u>2536</u>	<u>2470</u>	<u> </u>	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
				Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
				Final Shut-in <u>120</u>	Straddle <u> </u>
				<u>4</u>	Circ. Sub <u> </u>
					Sampler <u> </u>
					Extra Packer <u> </u>
					Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
					Mileage <u> </u>
					Other <input checked="" type="checkbox"/> <u>30</u>
					TOTAL PRICE \$ <input checked="" type="checkbox"/> <u>1230⁰⁰</u>

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Approved By Marvin Harvey
 Our Representative Gary [Signature]

TRILOBITE TESTING L.L.C.

OPERATOR : R.J.Patrick Oper.Co.
 WELL NAME: Herd #2-10
 LOCATION : 10-33s-19w Comanche co KS
 INTERVAL : 5363.00 To 5442.00 ft

DATE 06-04-000
 KB 2029.00 ft TICKET NO: 12859 DST #6
 GR 2018.00 ft FORMATION: Mississippi
 TD 5442.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0615 to 0645 hr
SI 60 Range (Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0645 to 0745 hr
SF 60 Clock (hrs)	12 hr	12 hr	batt.			SF Fr. 0745 to 0845 hr
FS 120 Depth (ft)	5439.0	5439.0	5370.0	0.0	0.0	FS Fr. 0845 to 1045 hr

	Field	1	2	3	4	
A. Init Hydro	2667.0	2667.0	2667.0	0.0	0.0	T STARTED 0354 hr
B. First Flow	46.0	57.0	55.0	0.0	0.0	T ON BOTM 0607 hr
B1. Final Flow	69.0	66.0	72.0	0.0	0.0	T OPEN 0615 hr
C. In Shut-in	1701.0	1694.0	1706.0	0.0	0.0	T PULLED 1047 hr
D. Init Flow	69.0	88.0	73.0	0.0	0.0	T OUT 1325 hr
E. Final Flow	110.0	117.0	114.0	0.0	0.0	
F. Fl Shut-in	1701.0	1697.0	1701.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2591.0	2549.0	2626.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 90000.00 lbs
						Initial Str Wt 76000.00 lbs
						Unseated Str Wt 78000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 120.00 ft
						D.P. Length 5233.00 ft

RECOVERY

Tot Fluid 205.00 ft of 120.00 ft in DC and 85.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 85.00 ft of Slightly oil cut mud
 0.00 ft of 1% oil 99% mud
 120.00 ft of Slightly oil cut muddy water
 0.00 ft of 1% oil 54% water 45% mud
 0.00 ft of
 0.00 ft of Rw .063 ohms @100 degrees F.
 0.00 ft of EST.FT. of PAY-----14
 SALINITY 87000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	51.00 S/L
W.L.	10.40 in ³
F.C.	0.20 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Bottom of bucket in 2-3 seconds.
 Initial Shut-In:
 No blow.

Final Flow:
 Strong blow. Gas to surface in 11 minutes. (see gas volume report)

Final Shut-In:
 Weak blow. 1/2 - 2".

Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 F
Hole Condition	Fair
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Marvin Harvey
Contr.	Duke Drlg.
Rig #	5
Unit #	
Pump T.	LCM 6 #/bl

SAMPLES: none
 SENT TO: Caraway/Liberal

Test Successful: Y

GAS RECOVERY

COMPANY: R.J.Patrick Oper.Co.

DATE: 06-04-000

WELL NAME: Herd #2-10

KB Elev: 2029.00 ft TICKET #12859 DST #6

WELL LOCATION: 10-33s-19w Comanche co KS

GR Elev: 2018.00 ft FORMATION: Mississippi

INTERVAL Fr.: 5363.00 To 5442.00 T.D.: 5442.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
15	0.25	0	10	5320.0
20	0.25	0	10	5320.0
30	0.25	0	9	5050.0
40	0.25	0	8	4760.0
50	0.25	0	8	4760.0
60	0.25	0	8	4760.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Herd #2-10

LOCATION : 10-33s-19w Comanche co KS

TICKET No. 12859 D.S.T. No. 6 DATE 06-04-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 18

TOTAL TOOL 45

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 61

TOTAL ASSEMBLY 106

D.C. ABOVE TOOLS.Stands2 Single Total 120

D.P. ABOVE TOOLS.Stands84 Single Total 5233

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5459

TOTAL DEPTH 5442

TOTAL DRILL PIPE ABOVE K.B. 17

REMARKS:
Comments:

FLUID SAMPLER DATA (not run)

GAS----- cubic ft
OIL----- ML.
MUD----- ML.
WATER----- ML.
OTHER-----
PRESSURE----- PSI
Rw ----- ohms @ deg. F.
CHLORIDES----- ppm.
GRAVITY----- deg.API

P.O. SUB		
C.O. SUB @ top of tool		5336
S.I. TOOL Sterling		5342
HMV Sterling		5347
JARS bowen		5352
SAFETY JOINT bowen		5354
PACKER Top		5358
PACKER Btm.		5363
DEPTH 5363		
1 ft.		5364
ANCHOR		
perfs		
Alpine rec. @ 5370		
11'perfs & sub to		5375
1 std.pipe & sub to		5437
AK-1 rec. @ 5439		
BULLNOSE 5 ft. perforated T.D.		5442

TEST HISTORY

12859 DST#6 HERD #2-10 R.J.PATRICK OPERATING CO.

Flag Points

t(Min.)	P(PSig)
A: 0.00	2666.63
B: 0.00	54.96
C: 30.00	72.17
D: 60.00	1706.50
E: 0.00	72.59
F: 59.50	114.22
G: 122.00	1700.62
Q: 0.00	2625.76

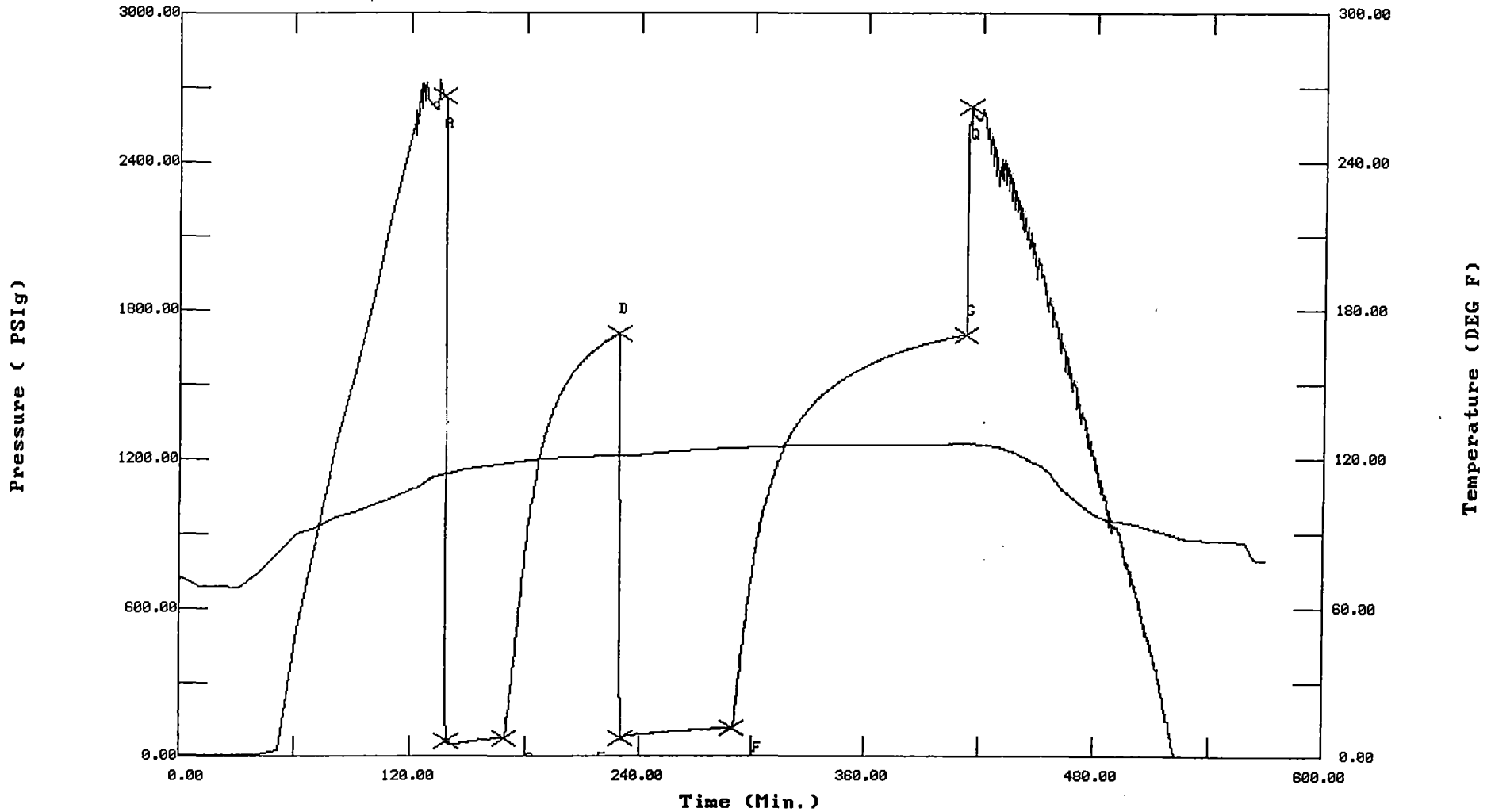
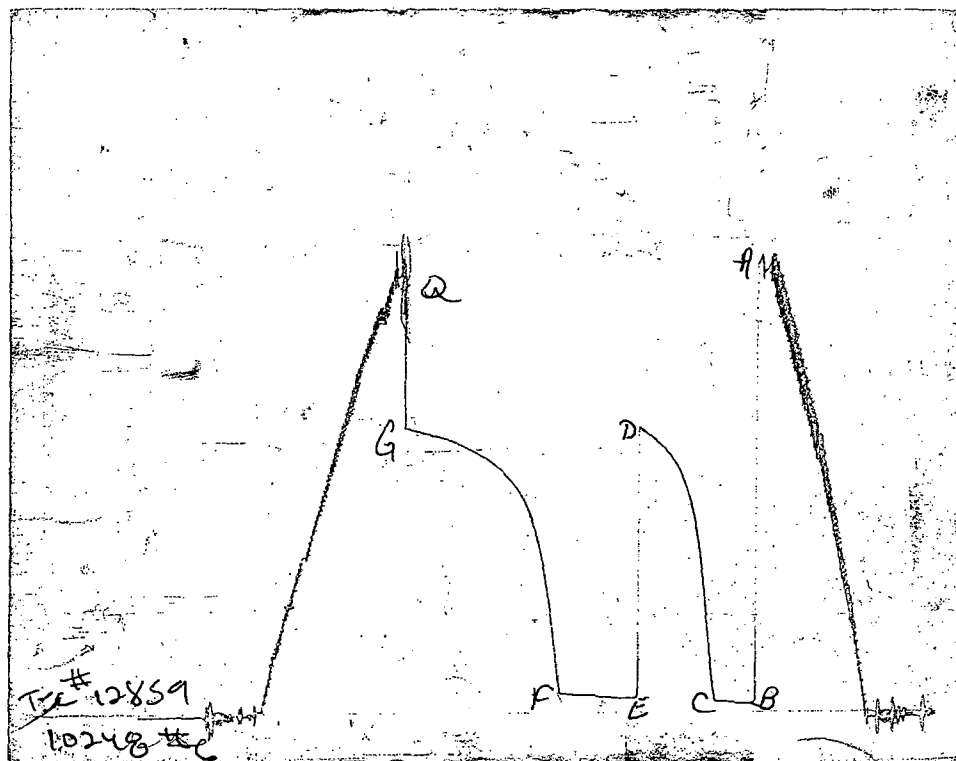


CHART PAGE



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

N^o 12859

Well Name & No.	<u>Hurd # 2-10</u>	Test No.	<u>6</u>	Date	<u>6-4-2000</u>
Company	<u>R.J. Patrick Oper. Co.</u>	Zone Tested	<u>Miss.</u>		
Address	<u>Liberal Ks. 67905</u>	Elevation	<u>2029</u>	KB	<u>2018</u> GL
Co. Rep / Geo.	<u>Maurin Hawey</u>	Cont.	<u>Duke Dalg #5</u>	Est. Ft. of Pay	<u>14</u> Por. <u> </u> %
Location: Sec.	<u>10</u>	Twp.	<u>33^oS</u>	Rge.	<u>19^W</u> Co. <u>Comanche</u> State <u>Ks.</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>5363-5442'</u>	Initial Str Wt./Lbs.	<u>16,000</u>	Unseated Str Wt./Lbs.	<u>78,000</u>
Anchor Length	<u>79'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>90,000</u>
Top Packer Depth	<u>5358'</u>	Tool Weight	<u>2100 II</u>		
Bottom Packer Depth	<u>5363'</u>	Hole Size — 7 7/8"	<input checked="" type="checkbox"/>	Rubber Size — 6 3/4"	<input checked="" type="checkbox"/>
Total Depth	<u>5442'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>120'</u>
Mud Wt.	<u>9.0 LCM</u> <u>6[#]</u> Vis. <u>51</u> WL <u>10.4cc.</u>	Drill Pipe Size	<u>4 1/2" X.H.</u>	Ft. Run	<u>5233</u>
Blow Description	<u>IF: Strong blow. BOB in 2-3 secs. ISS: No bl.</u>				

FF: Strong blow. GTS in 11 mins. (see gas volume report)
FST: Weak blow. 1/2 - 2"

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>205</u>	<u>yes</u>	<u>120</u>	<u>85</u>
Rec. <u>85</u> Feet Of <u>S.O.C.M.</u>		%gas <u>1</u> %oil <u> </u> %water <u>99</u> %mud <u> </u>	
Rec. <u>120</u> Feet Of <u>S.O.C.M.W.</u>		%gas <u>1</u> %oil <u> </u> %water <u>54</u> %mud <u>45</u>	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	

BHT 126 °F Gravity N/A °API @ °F Corrected Gravity N/A °API
 RW .063 @ 100 °F Chlorides 82,000 ppm Recovery Chlorides 9,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2667</u>	<u>2667</u>		<u>2342</u>	<u>0325</u>
(B) First Initial Flow Pressure	<u>46</u>	<u>55</u>		(depth) <u>5375'</u>	T-Started <u>0354</u>
(C) First Final Flow Pressure	<u>69</u>	<u>72</u>		Recorder No. <u>10248</u>	T-Open <u>0615</u>
(D) Initial Shut-In Pressure	<u>1701</u>	<u>1706</u>		(depth) <u>5439'</u>	T-Pulled <u>1047</u>
(E) Second Initial Flow Pressure	<u>69</u>	<u>73</u>		Recorder No. <u> </u>	T-Out <u>1325</u>
(F) Second Final Flow Pressure	<u>110</u>	<u>114</u>		(depth) <u> </u>	T-Off Location <u>1445</u>
(G) Final Shut-in Pressure	<u>1701</u>	<u>1701</u>		Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>800°</u>
(Q) Final Hydrostatic Mud	<u>2591</u>	<u>2626</u>		Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200°</u>
				Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50°</u>
				Final Shut-in <u>120</u>	Straddle <u> </u>
				<u>4</u>	Circ. Sub <u> </u>
				<u> </u>	Sampler <u> </u>
					Extra Packer <u> </u>
					Elec. Rec. <input checked="" type="checkbox"/> <u>150°</u>
					Mileage <u> </u>
					Other <u> </u>
					TOTAL PRICE \$ <input checked="" type="checkbox"/> <u>1200</u>

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Approved By

Maurin Hawey

Our Representative