

# ORIGINAL

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

API NO. 15- 071-206760000  
 County Greeley  
Su/4-NW/4-NE/4 Sec. 17 Twp. 18S Rge. 42 <sup>E</sup><sub>W</sub>

Operator: License # 32179

1200' Feet from S (circle one) Line of Section  
2259' Feet from E (circle one) Line of Section

Name: Hollis R. Sullivan Inc.

Address BOX 2506 **CONFIDENTIAL**

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

City/State/Zip Wichita Falls, TX. 76307

Lease Name PETRIELLO Well # 1

Purchaser: \_\_\_\_\_

Field Name NONE

Operator Contact Person: S.W. Mowrey

Producing Formation MORROW

Phone (940) 322-8963

Elevation: Ground 3841 KB 3850

Contractor: Name: Murphy Drilg. Co.

Total Depth 5350 PBTD \_\_\_\_\_

License: 30607

Amount of Surface Pipe Set and Cemented at 307 Feet

Wellsite Geologist: DAVID N. FOCARDI & Tony LUCIDO

Multiple Stage Cementing Collar Used? \_\_\_\_\_ Yes X No

Designate Type of Completion  
 New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover \_\_\_\_\_

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 1600'

Oil \_\_\_\_\_ SWD \_\_\_\_\_ SIGW \_\_\_\_\_ Temp. Abd.  
 Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW \_\_\_\_\_  
 Dry \_\_\_\_\_ Other (Core, WSP, etc.) \_\_\_\_\_

feet depth to 1300 w/ 80 ex cmt.

If Workover:  
 Operator: \_\_\_\_\_ APR 09 1999

Drilling Fluid Management Plan P4A-9-30-98 UC.  
 (Data must be collected from the Reserve Pit)

Well Name: FROM CONFIDENTIAL

Chloride content 6000 ppm Fluid volume 5000 bbls

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Dewatering method used EVAPORATION

Location of fluid disposal if hauled offsite: \_\_\_\_\_

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

Operator Name KCC

Lease Name MAR 10 License No. \_\_\_\_\_

11/21/97 11/29/97 11/30/97  
 Spud Date Date Reached TD Completion Date

Quarter \_\_\_\_\_ Section \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 [Signature]  
 Title President Date 3/9/98

Subscribed and sworn to before me this 10 day of March, 1998.

Notary Public Sharon S. Smith

Date Commission Expires 6-1-2001

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)



MAR 16 1998  
3-16-98  
 CONSERVATION DIVISION  
 WICHITA KS

Operator Name HOLLIS R. SULLIVAN INC

SIDE TRAIL

Lease Name Petricello

Well # 1

Sec. 17 Twp. 18 Rge. 42

East  
 West

County Greeley

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  Yes  No  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy.)

List All E.Logs Run:

Schlumberger  
MICROLOG, GAMMA Ray  
PHASOR INDUCTION  
NEUTRON DENSITY  
FMI

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
BASE STONE CORRAL	2597	+1253
TOP KRIDER	2843	+1007
TOP WINFREY	2872	+978
TOP WOLFCAMP	3123	+787
TOP NEVA	3419	+431
TOP TOPEKA	3757	+93
TOP MARMATHON	4502	-657
TOP CHEROKEE	4685	-848
TOP MORROW SHALE	5025	-1175
TOP UPPER MORROW SD.	5037	-1187
TOP LOWER MORROW SQ.	5106	-1256
TOP KAYES	5119	-1269
TOP MISS. LINE	5187	-1337

CASING RECORD

New  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
SURFACE PIPE	12 1/4	8 5/8	24#	307	60/40 POS	200	3% C, 2% Gel

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
NONE			

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
NONE				

Date of First, Resumed Production, SMD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
<u>Per A</u>	

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	<u>N-A</u>				

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented  Sold  Used on Lease  
(If vented, submit ACO-18.)

Open Hole  Perf.  Dually Comp.  Commingled

Other (Specify) \_\_\_\_\_

TRILOBITE TESTING L.L.C.

ORIGINAL

15-071-20676-0000

OPERATOR : Hollis R. Sullivan Inc.

DATE 11-28-97

WELL NAME: Petriello #1

KB 3851.00 ft

TICKET NO: 10376

DST #1

LOCATION : 16-18s-42w Greeley Co. KS

GR 3841.00 ft

FORMATION: morrow

INTERVAL : 5107.00 To 5125.00 ft

TD 5125.00 ft

TEST TYPE: CONV.

CONFIDENTIAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11057	11057	2346			PF Fr. 1613 to 1643 hr
SI 60 Range(Psi )	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1643 to 1743 hr
SF 60 Clock(hrs)	12 hr	12 hr	alpin			SF Fr. 1743 to 1843 hr
FS 120 Depth(ft )	5120.0	5120.0	5113.0	0.0	0.0	FS Fr. 1843 to 2043 hr

	Field	1	2	3	4
A. Init Hydro	2536.0	2472.0	2523.0	0.0	0.0
B. First Flow	56.0	37.0	52.0	0.0	0.0
B1. Final Flow	280.0	241.0	316.0	0.0	0.0
C. In Shut-in	1040.0	982.0	1047.0	0.0	0.0
D. Init Flow	358.0	314.0	325.0	0.0	0.0
E. Final Flow	470.0	429.0	491.0	0.0	0.0
F. Fl Shut-in	1040.0	973.0	1049.0	0.0	0.0
G. Final Hydro	2513.0	2400.0	2495.0	0.0	0.0
Inside/Outside	i	i	o		

T STARTED 1307 hr  
T ON BOTM 1610 hr  
T OPEN 1613 hr  
T PULLED 2043 hr  
T OUT 0010 hr

TOOL DATA-----  
Tool Wt. 4000.00 lbs  
Wt Set On Packer 26000.00 lbs  
Wt Pulled Loose 92000.00 lbs  
Initial Str Wt 68000.00 lbs  
Unseated Str Wt 72000.00 lbs  
Bot Choke 0.75 in  
Hole Size 7.88 in  
D Col. ID 2.25 in  
D. Pipe ID 3.50 in  
D.C. Length 480.00 ft  
D.P. Length 4626.00 ft

RECOVERY

Tot Fluid 914.00 ft of 480.00 ft in DC and 434.00 ft in DP  
40.00 ft of mud cut water 60%water 40%mud  
874.00 ft of salt water 100%water (sulfur smell)  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of

RELEASED

APR 09 1998

FROM CONFIDENTIAL

SALINITY 35000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----  
Mud Type chem  
Weight 9.20 lb/cf  
Vis. 49.00 S/L  
W.L. 9.60 in3  
F.C. 0.00 in  
Mud Drop N

BLOW DESCRIPTION

Initial Flow: Bottom of bucket in 12 1/2 minutes.

Initial Shutin: No return.

Final Flow: Bottom of bucket in 32 min.

Final Shutin: No return.

KCC  
MAR 10  
CONFIDENTIAL

Amt. of fill 0.00 ft  
Btm. H. Temp. 133.00 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 Shane McBride  
Co. Rep. Tony  
Contr. Murfin  
Rig # 24  
Unit #  
Pump T.

SAMPLES:

SENT TO:

Test Successful: Y

RECEIVED  
KANSAS CORPORATION COMMISSION

MAR 16 1998

# ALLIED CEMENTING CO., INC.

9952

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

## ORIGINAL

SERVICE POINT: Dallas

~~CONFIDENTIAL~~

DATE <u>11-30-97</u>	SEC. <u>17</u>	TWP. <u>12</u>	RANGE <u>42</u>	CALLED OUT	ON LOCATION <u>1:15 PM</u>	JOB START <u>2:30 PM</u>	JOB FINISH <u>6:30 PM</u>
LEASE <u>Patricello</u>	WEL.# <u>1</u>	LOCATION <u>Tribune NW-2N-1W-4S-400</u>		COUNTY <u>Greene</u>		STATE <u>Kan</u>	
OLD OR NEW (Circle one)							

CONTRACTOR MucEm Dely Co #24 OWNER Hollis R. Sullivan, Inc.

TYPE OF JOB PTA  
 HOLE SIZE 7 7/8 T.D.  
 CASING SIZE DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH

CEMENT  
 AMOUNT ORDERED 255 sks @ 9/40 per  
6% bet

PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.  
 DISPLACEMENT

COMMON 153 sks @ 7.50 4,155.15  
 POZMIX 102 sks @ 3.25 331.50  
 GRL 13 sks @ 9.50 123.50  
 CHLORIDE

### CONFIDENTIAL

EQUIPMENT  
 PUMP TRUCK CEMENTER Walt  
 # 191 HELPER Louise  
 BULK TRUCK  
 # 812 DRIVER Andrew  
 BULK TRUCK  
 # DRIVER  
 HANDLING 255 sks @ 1.00 255.00  
 MILEAGE 4¢ per sk/mile 979.00  
 TOTAL 2,857.65

### MAR 10 CONFIDENTIAL

REMARKS: SERVICE  
 50 - sks @ 2600'  
 80 - sks @ 1600'  
 40 - sks @ 800'  
 50 - sks @ 330'  
 10 sks @ 40'  
 15 sks in R.H.  
 10 sks in W.H. that's for

DEPTH OF JOB 2600'  
 PUMP TRUCK CHARGE 580.00  
 EXTRA FOOTAGE @  
 MILEAGE 96 - miles @ 2.50 237.00  
 PLUG 8 3/4 DA @ 23.00

TOTAL 876.00

CHARGE TO: MucEm Dely Co, Inc  
 STREET  
 CITY STATE ZIP

FLOAT EQUIPMENT  
 @  
 @  
 @  
 @  
 @  
 TOTAL

Post-It Fax Note	7871	Date	12-04-97	# of pages	1
To	<u>Stam</u>	From			
Co./Dept.	<u>MucEm Dely Co</u>	Co.	<u>MucEm Dely Co</u>		
Phone #		Phone #			
Fax #	<u>317 2114</u>	Fax #			

CONTRACTOR TO DO WORK AS DIRECTED BY OWNER  
 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 Louise McRae

Louise McRae  
 PRINTED NAME

# ALLIED CEMENTING CO., INC. 8659

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

913-672-3452  
Oakley, Kansas

SERVICE POINT: DATE

DATE <u>11-21-97</u>	SEC. <u>17</u>	TWP. <u>185</u>	RANGE <u>42W</u>	CALLED OUT	ON LOCATION <u>10:20AM</u>	JOB START <u>2:00PM</u>	JOB FINISH <u>2:30PM</u>
LEASE <u>ATRIE 110</u>	WELL # <u>1</u>	LOCATION <u>Tribune NW-20-1W-185</u>			COUNTY <u>Greene</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR MURFIN DRILLING CO. #24

TYPE OF JOB SURFACE

HOLE SIZE 12 1/8" TD. 307'

CASING SIZE 8 7/8" DEPTH 307'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 19 BBL.

OWNER Morris R. SULLIVAN INC.

CEMENT AMOUNT ORDERED 2100 lbs to 10000 223211-28000

**EQUIPMENT**

PUMP TRUCK # <u>200</u>	CEMENTER <u>TERP</u>	HELPER <u>MAYNE</u>
BULK TRUCK # <u>218</u>	DRIVER <u>ANDREW</u>	
BULK TRUCK # _____	DRIVER _____	

**ORIGINAL**

COMMON POZ MIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE RELEASED \_\_\_\_\_ @ \_\_\_\_\_

APR 09 1999

FROM CONFIDENTIAL

HANDLING \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

CONFIDENTIAL

**KCC**

MAR 10

**CONFIDENTIAL SERVICE**

REMARKS: CEMENT DTD 13RC. ✓

Thank You

DEPTH OF JOB 307'

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

PLUG 8 7/8 SURFACE \_\_\_\_\_ @ \_\_\_\_\_

CHARGE TO: MURFIN DRILLING CO.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

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.

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE Laura McRorie

PRINTED NAME \_\_\_\_\_

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

API NO. 15- 071-206760000

County Greeley

Sul/4-NW/4-NE/4 Sec. 17 Twp. 18S Rge. 42 X W

1200' Feet from S (circle one) Line of Section

2259' Feet from E (circle one) Line of Section

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

Lease Name PETRIELLO Well # 1

Field Name NONE

Producing Formation MORROW

Elevation: Ground 3841 KB 3850

Total Depth 5350 PBDT —

Amount of Surface Pipe Set and Cemented at 307 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set — Feet

If Alternate II completion, cement circulated from 1600'  
feet depth to 1300 w/ 80 ex cmt.

Drilling Fluid Management Plan RA, 9-30-98 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content 6000 ppm Fluid volume 5000 bbls

Dewatering method used EVAPORATION RELEASE

Location of fluid disposal if hauled offsite:

Operator Name KCC

Lease Name MAR 10 License No. FROM COI

Quarter CONFIDENTIAL S Rng. — E/W

County — Docket No. —

Operator: License # 32179

Name: Hollis R. Sullivan Inc.

Address BOX 2506

City/State/Zip Wichita Falls, TX. 76307

Purchaser: —

Operator Contact Person: S.H. Mowrey

Phone (940): 322-8963

Contractor: Name: Murphy Drilg. Co.

License: 30607

Wellsite Geologist: DAVID N. FOCARDI & Tony LUCIDO

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGH  
 Dry  Other (Core, USW, Expl., Cathodic, etc)

If Workover: CONFIDENTIAL

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. —

11/21/97 11/29/97 11/30/97  
Spud Date Date Reached TD Completion Date

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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 [Signature]  
Title President Date 3/9/98

Subscribed and sworn to before me this 10 day of March, 19 98.

Notary Public Sharon S. Smith

Date Commission Expires 6-1-2001

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)

RECEIVED  
KANSAS CORPORATION COMMISSION

MAR 16 1998

Form ACO-1 (7-91)



Operator Name HOLLIS R. SULLIVAN INC Lease Name Petricello Well # 1

Sec. 17 Twp. 18 Rge. 42  East  West  
 County Greeley

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  Yes  No  
 (Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy.)

List All E.Logs Run:  
 Schlumberger  
 MICROLOG, GAMMA Ray  
 PHASOR INDUCTION  
 NEUTRON DENSITY  
 FMI

Log Formation (Top), Depth and Datum  Sample

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CASING RECORD

New  Used

Report all strings set-conductor, surface, intermediate, production, etc.

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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
NONE			

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
NONE				

Date of First, Resumed Production, SMD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
<u>Per A</u>	
Estimated Production Per 24 Hours	Oil Bbls. <u>N-A</u> Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

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

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

TRILOBITE TESTING L.L.C.

COPY

15-071-20676

OPERATOR : Hollis R. Sullivan Inc.

DATE 11-28-97

WELL NAME: Petriello #1

KB 3851.00 ft

TICKET NO: 10376

DST #1

LOCATION : 16-18s-42w Greeley Co. KS

GR 3841.00 ft

FORMATION: morrow

INTERVAL : 5107.00 To 5125.00 ft

TD 5125.00 ft

TEST TYPE: CONV.

CONFIDENTIAL

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SF 60 Clock(hrs)	12 hr	12 hr	alpin			SF Fr. 1743 to 1843 hr
FS 120 Depth(ft )	5120.0	5120.0	5113.0	0.0	0.0	FS Fr. 1843 to 2043 hr

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B. First Flow	56.0	37.0	52.0	0.0	0.0	T ON BOTM 1610 hr
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C. In Shut-in	1040.0	982.0	1047.0	0.0	0.0	T PULLED 2043 hr
D. Init Flow	358.0	314.0	325.0	0.0	0.0	T OUT 0010 hr
E. Final Flow	470.0	429.0	491.0	0.0	0.0	
F. Fl Shut-in	1040.0	973.0	1049.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2513.0	2400.0	2495.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs

RECOVERY

Tot Fluid 914.00 ft of 480.00 ft in DC and 434.00 ft in DP  
 40.00 ft of mud cut water 60%water 40%mud  
 874.00 ft of salt water 100%water (sulfur smell)  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	92000.00 lbs
Initial Str Wt	68000.00 lbs
Unseated Str Wt	72000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.50 in
D.C. Length	480.00 ft
D.P. Length	4626.00 ft

SALINITY 35000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow: Bottom of bucket in 12 1/2 minutes.

Initial Shutin: No return.

Final Flow: Bottom of bucket in 32 min.

Final Shutin: No return.

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SAMPLES:  
SENT TO:

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Test Successful: Y

MUD DATA-----	
Mud Type	chem
Weight	9.20 lb/cf
Vis.	49.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	133.00 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	Shane McBride
Co. Rep.	Tony
Contr.	Murfin
Rig #	24
Unit #	
Pump	

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CONSERVATION DIVISION  
WICHITA, KS





COLUMBINE  
LOGGING, INC.

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ORIGINAL

HOLLIS R. SULLIVAN, INC.

GEOLOGICAL  
REPORT

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PETRIELLO #1  
1200' FNL 2295' FEL SECTION 17  
TOWNSHIP 18 SOUTH, RANGE 42 WEST  
GREELEY COUNTY, KS

15-071-20676

GEOLOGIST:  
DAVID N. FOCARDI  
MOAB, UT

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WICHITA, KS

PROFESSIONAL WELLSITE CONSULTING SERVICES

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ORIGINAL

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FROM 007 1256 91

RESUME

15-071-20676

OPERATOR:  
OTHER INTERESTED PARTIES:  
WELL NAME & NUMBER:  
LOCATION:

HOLLIS R. SULLIVAN, INC.  
VARIOUS INDIVIDUALS  
PETRIELLO #1  
1200' FNL 2295' FEL SECTION 17, TOWNSHIP  
18 SOUTH, RANGE 42 WEST or SWNWNE

AREA:  
COUNTY:  
STATE:  
ELEVATION:  
ENGINEER:  
GEOLOGIST:  
SPUD DATE:  
COMPLETION DATE:  
HOLE SIZE:

WALKINGHOOD / TRIBUNE  
GREELEY  
KANSAS  
3841' GL 3850' KB  
MURFIN TURNKEY  
DAVE FOCARDI  
11/21/97  
11/23/97  
12 1/4" TO 307' 7 7/8" TO TD 5350'  
8 5/8" 24#/FT

CASING:  
CEMENTING COMPANY:  
CONTRACTOR:  
EQUIPMENT:  
TOOLPUSHER:  
DRILLERS:  
DRAWWORKS:

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ALLIED OUT OF OAKLEY, KS  
MURFIN DRILLING  
RIG #24  
ED McKENNA  
LARRY PICKNER, CHARLEY RUARK  
IDECO H35

PUMP:  
DRILL COLLARS:  
DRILL PIPE:  
DRILLING MUD COMPANY:  
MUD TYPE:  
MUD ENGINEER:  
MUD LOGGING COMPANY:  
TYPE UNIT:  
ELECTRIC LOGGING COMPANY:  
TYPE LOGS:

NATIONAL K-380  
6 1/4 X 2 1/4  
4 1/2" XH  
MUD CO.  
LSND  
TONY MAESTAS  
COLUMBINE LOGGING, INC.  
UNMANNED  
SCHLUMBERGER  
DIL, DENSITY, SONIC POSSIBLE FMI  
(GEOLOGIST RELEASED AT TD)

ENGINEER:  
TOTAL DEPTH:  
DRILLING TIME:  
BOTTOM FORMATION:  
WELL STATUS:

BILL SECKAR  
5350' DRLR  
9 DAYS  
MISSISSIPPIAN LIME  
P&A

APR 09 1999

SUMMARY AND CONCLUSIONS

FROM COPIES

The Petriello #1 was drilled to a total depth of 5350' in Sec 17, T18S, R42W in Greeley County, Kansas, on November 29, 1997. The Petriello was an attempt at extending the lower Morrow production so prolific in the area. Enroute to the Morrow, no other potential pay zones were found. Items of note on the mudlog include an unusual gas increase through the Stone Corral. This may have been instrument drift, although the gas dropped off when dilution was cut in, and all instrument tests indicated that gas was coming into the trailer via the gas trap/extraction set up; so an obligation was felt by the author to include the increase on the mudlog. Another geologic point of interest can be found in the Lower Lansing at 4415'-17'. A three foot drilling break resulted in 15 units of gas with a detectable breakdown to C3's. Samples did not show a great deal of porosity and the zone was only three feet thick. The author was released at TD and did not review logs so porosity and water saturation are not calculated, although I would expect nothing of significance. No other points of interest were noted by the gas detection equipment which routinely picked up recirculated carbide, and was sensitive enough to pick up 50 PPM hydrocarbon gas, based on post well instrument calibration.

The Morrow sand had two benches, an upper and lower, in samples. The upper bench yielded classic, clear, angular grains that were never more than 1% of total sample content. A quick look at electric logs to bottom indicated why. Only a slight decrease in gamma ray count indicated any sign of an upper Morrow sand at all, and without the trace of sand in samples, one would be inclined to say there was no upper Morrow sand present. The lower Morrow was fairly well developed both in samples and on logs. In samples, the sand was fairly clean, with only a few clusters containing a trace of fluorescence and cut. I have seen "marginal" shows of this nature yield oil, although better sample shows would be more encouraging. Gas actually decreased slightly when drilling this zone, possibly due to flushing. Both a DST and logs indicated it to be wet.

For the future, the question is whether or not to pursue the sand that is there; moving up dip looking for the oil column, or move on to another prospect that until the well is actually drilled has unlimited potential. Chasing the Morrow sand is a notoriously challenging endeavor.

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FORMATION TOPS FROM SAMPLES

SAMPLE TOPS	DEPTH FROM KB	SUB SEA (+ or -)
Base Stone Corral	2597'	+1253'
Top Krider	2843'	+1007'
Top Winfrey	2872'	+978'
Top Ft. Riley	2945'	+905'
Top Wolfcamp	3123'	+727'
Top Upper Neva	3345'	+505'
Top Neva	3419'	+431'
Top Topeka	3757'	+93
Top Shawnee		
Top Lansing		
Top Marmaton	4502'	-657
Top Cherokee	4685'	-848
Top Atoka		
Top Morrow Shale	5025'	-1175
Top Upper Morrow Sand	5037	-1187'
Top Lower Morrow Sand	5106'	-1256
Top Keyes	5119'	-1269
Top Miss. Lime	5187'	-1337
TD	5350' DRILLER	-1500

DRILL STEM TEST REPORT

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FORMATION	Morrow SS, Lower		
INTERVAL TESTED	5107'-5125'		
ANCHOR 18'	TOP PACKER 5101'	BOT PCKR 5107'	TD 5125'
MUD at 5125'	WT 9.2	VIS 49	FIL 9.6
STRING WT 68,000	UNSEATED 72,000	WT SET 26,000	WT PULL LSE 92,000
TOOL WT 4,000	HOLE SIZE 7 7/8"		

IF 30	ISI 60	FF 60	FSI 120
	recorder # 2346	recorder # 11057	
INITIAL HYDRO	2536	2523	
FIRST INITIAL FLOW	56	52	
FIRST FINAL FLOW	280	316	
INITIAL SHUT-IN	1040	1047	
SECOND INITIAL	358	325	
SEC FINAL FLOW	470	491	
FINAL SHUT-IN	1040	1049	
FINAL HYDRO	2513	2495	

RECORDER INFO	depth 5113'	depth 5120'
---------------	-------------	-------------

RECOVERY	40' MCW 60% H2O 40% MUD	874' WATER sulfur odor
----------	----------------------------	---------------------------

BLOW DESCRIPTION: B.O.B. IN 12.5 MIN NONE ON ISI, B.O.B. IN 32 MIN SECOND OPEN, NONE ON FINAL SHUT IN.

Rw .20      AT 73 deg F      Cl 35,000      BHT 135 deg F      MUD Cl 6000

COMMENTS: TESTOR: TRILOBITE TESTING, PO BOX 362, HAYS, KS 67601

SUCCESSFUL TEST. TEST BASED ON CLEAN UNCONS LOWER MORROW SAND W/ OCC POOR CUT.

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DAILY DRILLING CHRONOLOGY

<u>DATE</u>	<u>FTG TOTAL</u>	<u>24 HR FTG</u>	<u>RIG ACTIVITY</u>
11/21/97	307'	307'	Rig Up, Mix mud, Drlg, Circ, TOH, Run 7 JTS CSG 85/8" 24#/FT, CMT, WOC, NIPPLE UP, TIH, TEST BOP TO 500PSI
11/22/97	2575'	2268'	DRLG CMT & SHOW, SERV RIG, DRLG, JET PIT, DRLG, JET, RIG SER, SURV. 1/4 DEG, DRLG, JET, DRLG
11/23/97	3017'	442'	DRLG, RIG SER, JET, CIRC, SURV. 1/4 DEG, TOH BIT, HOOK UP HYDRO BRAKES, MAKE UP BIT, TIH, DRLG, JET, TOH-HOLE IN PIPE, CHECK PIT SIDE OF PUMP, TIH W/ COLLARS, TOOH PRESS. EA. STD,
11/24/97	3600'	583'	LAY DOWN 60.34' BAD COLLARS, TIH, PU 60.2' DRL PIPE, DRLG, RIGSER, JET, DRLG, JET, NEW ROD HEAD DRLRS SIDE, DRLG, JET
11/25/97	4150'	550'	DRLG, RIG REPAIR, DRLG, JET, DRLG, RIG SER, JET
11/26/97	4625'	475'	DRLG, RIG SER, SURV, DEV=3/4 DEG, DRLG, RIG WER, DRLG, RIG SER
11/27/97	5035'	410'	DRLG, JET, DRLG, JET, RIG SER, DRLG
11/28/97	5125'	90'	DRLG, CO SPL, DRLG, CO SPL, DRLG, PUMP PLUGGED SUCTION END, DRLG, CO SPL, DRLG, CO SPL, SHORT TRIP, CIRC FOR DST #1, TOH, PU TEST TOOL, TIH, TEST 30 60 60 120, TEST TOH, LAY DOWN TOOL, TIH (RECOVERY 874' SALT WATER)
11/29/97	5350'TD	225'	TIH, DRLG TD 5350' PREP FOR LOGS TOH E-LOGS

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BIT RECORD

<u>BIT #</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>DEPTH IN</u>	<u>OUT</u>	<u>FTG</u>	<u>HOURS</u>
BIT #1	VAREL	L-117	12 1/4"	SFC	307'	307	4
BIT #1	HTC	ATJ-05	7 7/8"	307'	2743'	2436'	26 3/4
BIT #2	HTC	ATJ-28C	7 7/8"	2743'	5350	2607'	111 HRS



DATE	DEPTH	MUD WEIGHT	FLUID VIS	GELS	FILT-CC's LOSS	CAKE	pH	CHLOR PPM	Ca PPM	% SOL	LCM #/BBL	CUM COST
11/21/97		SPUD	MUD									
11/22/97	1551'	8.6	28				7.0	200	80	2.2	0	\$747
11/23/97	2792'	9.6	29	3/7			7.0	95,000	2920	3.5	0	\$1535
11/24/97	3242'	9.7	31	4/8			7.0	91,000	2880	4.5	0	\$2585
11/25/97	3803'	8.6	47	11/21	10.4	1	10.0	6000	40	2.0	1#	\$3488
11/26/97	4334'	9.0	40	11/17	11.2	1	10.0	5600	40	4.7	TR	\$4615
11/27/97	4783'	9.2	40	10/19	12.8	1	10.0	5600	60	6.1	TR	\$5711
11/28/97	5125'	9.2	49	12/26	9.6	1	10.0	6000	80	6.1	1#	\$6949
11/29/97	5240'	9.3	50	12/24	9.6	1	9.0	7500	80	6.8	1/2#	\$7072

7

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WELL NAME:

Petriello #1

COMPANY:

Hollis R. Sullivan, Inc.

LOCATION:

16-18S-42W

Greeley County, Kansas

DATE:

12/1/97

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KCC

MAR 10

15-071-20676

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ORIGINAL

TRILOBITE TESTING L.L.C.

APR 09 1999

OPERATOR : Hollis R. Sullivan Inc. DATE 11-28-97  
 WELL NAME: Petriello #1 KB 3851.00 ft TICKET NO: 10576 FROM COI: DST #1  
 LOCATION : 16-18s-42w Greeley Co. KS GR 3841.00 ft FORMATION: morrow  
 INTERVAL : 5107.00 To 5125.00 ft TD 5125.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11057	11057	2346			PF Fr. 1613 to 1643 hr
SI 60 Range(Psi )	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1643 to 1743 hr
SF 60 Clock(hrs)	12 hr	12 hr	alpin			SF Fr. 1743 to 1843 hr
FS 120 Depth(ft )	5120.0	5120.0	5113.0	0.0	0.0	FS Fr. 1843 to 2043 hr

	Field	1	2	3	4	
A. Init Hydro	2536.0	2472.0	2523.0	0.0	0.0	T STARTED 1307 hr
B. First Flow	56.0	37.0	52.0	0.0	0.0	T ON BOTM 1610 hr
B1. Final Flow	280.0	241.0	316.0	0.0	0.0	T OPEN 1613 hr
C. In Shut-in	1040.0	982.0	1047.0	0.0	0.0	T PULLED 2043 hr
D. Init Flow	358.0	314.0	325.0	0.0	0.0	T OUT 0010 hr
E. Final Flow	470.0	429.0	491.0	0.0	0.0	
F. Fl Shut-in	1040.0	973.0	1049.0	0.0	0.0	
G. Final Hydro	2513.0	2400.0	2495.0	0.0	0.0	
Inside/Outside	i	i	o			

TOOL DATA-----

Tool Wt. 4000.00 lbs  
 Wt Set On Packer 26000.00 lbs  
 Wt Pulled Loose 92000.00 lbs  
 Initial Str Wt 68000.00 lbs  
 Unseated Str Wt 72000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.88 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.50 in  
 D.C. Length 480.00 ft  
 D.P. Length 4626.00 ft

RECOVERY

Tot Fluid 914.00 ft of 480.00 ft in DC and 434.00 ft in DP  
 40.00 ft of mud cut water 60%water 40%mud  
 874.00 ft of salt water 100%water (sulfur smell)  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

SALINITY 35000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type chem  
 Weight 9.20 lb/  
 Vis. 49.00 S/L  
 W.L. 9.60 in3  
 F.C. 0.00 in  
 Mud Drop N

BLOW DESCRIPTION

Initial Flow: Bottom of bucket  
 in 12 1/2 minutes.  
 Initial Shutin: No return.  
 Final Flow: Bottom of bucket in 32 min.  
 Final Shutin: No return.

Amt. of fill 0.00 ft  
 Btm. H. Temp. 133.00 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 Shane McBride  
 Co. Rep. Tony  
 Contr. Murfin  
 Rig # 24  
 Unit #  
 Pump T.

SAMPLES:  
 SENT TO:

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV.

WELL NAME: Petriello #1  
 LOCATION : 16-18s-42w Greeley Co. KS  
 TICKET No. 10376 D.S.T. No. 1 DATE 11-28-97  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 31  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 18  
 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.Stands9 Single Total 542  
 D.P. ABOVE TOOLS.Stands73 Single Total 4564  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5155  
 TOTAL DEPTH ..... 5125  
 TOTAL DRILL PIPE ABOVE K.B. .... 30  
 REMARKS:  
 GAS;  
 OIL;  
 WATER; 4,000 ml.  
 MUD;  
 Total; 4,000 ml.  
 Pressure; 360 psi.  
 Chlorides in sampler 36,000

P.O. SUB	
C.O. SUB 1'	5077
S.I. TOOL 5'	5083
sampler 3'	5086
HMV 5'	5089
JARS 5'	5094
SAFETY JOINT 2'	5096
PACKER top	5101
PACKER bottom shalepacker	5107
DEPTH 5107	
STUBB 1'	5108
ANCHOR 5' perf	5113
alpine rec 5113	
7' perf	5120
ak-1 rec 5120	
T.C.	
DEPTH	
BULLNOSE 5' bullplug perf	5125
T.D.	5125

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10376 DST #1 Petriello #1 Hollis R Sullivan Inc.

DATE: 11/29/97 TIME: 02:08:47

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	183.00	2523.8	0.0	114.76		
***** Start Flow 1	0.00	52.1	0.0	115.15		
	1.00	72.3	20.2	115.62		
	2.00	91.3	39.2	116.12		
	3.00	106.3	54.2	116.59		
	4.00	123.7	71.6	116.98		
	5.00	139.7	87.6	117.29		
	6.00	154.3	102.2	117.55		
	7.00	168.5	116.3	117.76		
	8.00	182.5	130.4	117.94		
	9.00	197.0	144.9	118.08		
	10.00	209.3	157.2	118.21		
	11.00	221.7	169.6	118.32		
	12.00	234.9	182.7	118.41		
	13.00	244.7	192.6	118.48		
	14.00	249.1	197.0	118.57		
	15.00	253.3	201.2	118.65		
	16.00	257.8	205.7	118.74		
	17.00	262.1	210.0	118.82		
	18.00	266.2	214.1	118.90		
	19.00	270.4	218.3	118.99		
	20.00	275.1	223.0	119.07		
	21.00	278.6	226.5	119.16		
	22.00	282.6	230.5	119.24		
	23.00	286.7	234.6	119.33		
	24.00	290.5	238.4	119.42		
	25.00	294.2	242.1	119.52		
	26.00	298.0	245.9	119.62		
	27.00	301.9	249.8	119.71		
	28.00	305.5	253.4	119.80		
	29.00	309.1	257.0	119.90		
	30.00	312.5	260.4	120.01		
***** End Flow 1	31.00	316.5	264.3	120.10		
***** Start Shutin 1	0.00	316.5	0.0	120.10	0.0000	0.100
	1.00	567.0	250.5	120.21	32.0000	0.321
	2.00	1025.0	708.5	120.32	16.5000	1.051
	3.00	1032.1	715.7	120.45	11.3333	1.065
	4.00	1035.3	718.8	120.58	8.7500	1.072
	5.00	1037.1	720.7	120.71	7.2000	1.076
	6.00	1038.4	722.0	120.84	6.1667	1.078
	7.00	1039.4	722.9	120.97	5.4286	1.080
	8.00	1040.2	723.8	121.09	4.8750	1.082
	9.00	1040.8	724.3	121.21	4.4444	1.083
	10.00	1041.5	725.0	121.31	4.1000	1.085
	11.00	1041.9	725.5	121.43	3.8182	1.086
	12.00	1041.9	725.5	121.53	3.5833	1.086
	13.00	1042.3	725.8	121.62	3.3846	1.086
	14.00	1042.7	726.2	121.73	3.2143	1.087
	15.00	1042.9	726.4	121.82	3.0667	1.088
	16.00	1043.1	726.6	121.92	2.9375	1.088
	17.00	1043.3	726.9	122.02	2.8235	1.089

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10376 DST #1 Petriello #1 Hollis R Sullivan Inc.

DATE: 11/29/97 TIME: 02:08:47

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
18.00	1043.5	727.1	122.11	2.7222	1.089
19.00	1043.7	727.3	122.20	2.6316	1.089
20.00	1043.9	727.4	122.29	2.5500	1.090
21.00	1044.1	727.7	122.39	2.4762	1.090
22.00	1044.2	727.8	122.48	2.4091	1.090
23.00	1044.3	727.9	122.57	2.3478	1.091
24.00	1044.6	728.2	122.66	2.2917	1.091
25.00	1044.6	728.2	122.74	2.2400	1.091
26.00	1044.8	728.3	122.82	2.1923	1.092
27.00	1044.9	728.4	122.91	2.1481	1.092
28.00	1045.0	728.6	123.00	2.1071	1.092
29.00	1045.1	728.6	123.08	2.0690	1.092
30.00	1045.2	728.7	123.16	2.0333	1.092
31.00	1045.4	728.9	123.25	2.0000	1.093
32.00	1045.4	729.0	123.36	1.9688	1.093
33.00	1045.6	729.1	123.37	1.9394	1.093
34.00	1045.9	729.4	123.48	1.9118	1.094
35.00	1046.0	729.6	123.57	1.8857	1.094
36.00	1046.1	729.7	123.64	1.8611	1.094
37.00	1046.1	729.7	123.72	1.8378	1.094
38.00	1046.2	729.7	123.80	1.8158	1.095
39.00	1046.1	729.7	123.87	1.7949	1.094
40.00	1046.3	729.9	123.96	1.7750	1.095
41.00	1046.4	729.9	124.01	1.7561	1.095
42.00	1046.4	730.0	124.10	1.7381	1.095
43.00	1046.5	730.0	124.16	1.7209	1.095
44.00	1046.6	730.1	124.24	1.7045	1.095
45.00	1046.6	730.2	124.31	1.6889	1.095
46.00	1046.7	730.3	124.39	1.6739	1.096
47.00	1046.8	730.4	124.45	1.6596	1.096
48.00	1046.8	730.4	124.52	1.6458	1.096
49.00	1046.9	730.4	124.59	1.6327	1.096
50.00	1046.9	730.4	124.66	1.6200	1.096
51.00	1046.9	730.5	124.73	1.6078	1.096
52.00	1047.0	730.6	124.80	1.5962	1.096
53.00	1047.0	730.6	124.86	1.5849	1.096
54.00	1047.2	730.7	124.93	1.5741	1.097
55.00	1047.2	730.7	124.99	1.5636	1.097
56.00	1047.1	730.7	125.06	1.5536	1.097
57.00	1047.3	730.9	125.12	1.5439	1.097
***** End Shut-in 1					
***** Start Flow 2					
0.00	325.7	0.0	125.22		
1.00	329.6	3.8	125.29		
2.00	333.2	7.4	125.30		
3.00	336.6	10.9	125.32		
4.00	340.0	14.2	125.35		
5.00	343.4	17.7	125.38		
6.00	346.8	21.1	125.43		
7.00	350.2	24.5	125.47		
8.00	353.5	27.7	125.52		
9.00	356.8	31.1	125.58		
10.00	360.3	34.5	125.62		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10376 DST #1 Petriello #1 Hollis R Sullivan Inc.  
 DATE: 11/29/97 TIME: 02:08:47

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
11.00	363.4	37.7	125.65		
12.00	366.5	40.8	125.73		
13.00	369.6	43.8	125.79		
14.00	372.9	47.2	125.85		
15.00	375.9	50.2	125.91		
16.00	379.0	53.2	125.97		
17.00	382.0	56.2	126.01		
18.00	384.9	59.2	126.08		
19.00	388.1	62.4	126.15		
20.00	391.0	65.3	126.20		
21.00	394.0	68.3	126.26		
22.00	396.9	71.2	126.32		
23.00	399.8	74.1	126.38		
24.00	402.8	77.0	126.42		
25.00	405.4	79.7	126.49		
26.00	408.0	82.3	126.54		
27.00	410.7	85.0	126.60		
28.00	413.3	87.6	126.65		
29.00	416.5	90.7	126.71		
30.00	419.2	93.5	126.76		
31.00	421.9	96.2	126.82		
32.00	424.7	98.9	126.87		
33.00	427.3	101.6	126.92		
34.00	430.3	104.5	126.98		
35.00	432.8	107.1	127.02		
36.00	435.3	109.5	127.05		
37.00	437.8	112.0	127.13		
38.00	440.2	114.5	127.19		
39.00	442.7	116.9	127.23		
40.00	445.3	119.6	127.28		
41.00	448.0	122.3	127.33		
42.00	450.5	124.8	127.38		
43.00	453.0	127.2	127.43		
44.00	455.5	129.7	127.49		
45.00	458.1	132.4	127.53		
46.00	460.7	135.0	127.58		
47.00	463.0	137.3	127.63		
48.00	465.3	139.5	127.68		
49.00	467.5	141.8	127.73		
50.00	469.7	144.0	127.78		
51.00	471.9	146.2	127.82		
52.00	474.6	148.9	127.88		
53.00	477.0	151.2	127.92		
54.00	479.3	153.5	127.97		
55.00	481.6	155.9	128.01		
56.00	483.9	158.2	128.06		
57.00	486.3	160.5	128.11		
58.00	488.8	163.1	128.15		
59.00	491.0	165.3	128.23		
***** End Flow 2					
***** Start Shutin 2	0.00	491.0	0.0	128.23	0.0000 0.241
	1.00	546.7	55.7	128.25	91.0000 0.299

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: 10376 DST #1 Petriello #1 Hollis R Sullivan Inc.

ATE: 11/29/97 TIME: 02:08:47

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
2.00	1023.3	532.2	128.28	46.0000	1.047
3.00	1035.7	544.6	128.36	31.0000	1.073
4.00	1038.4	547.4	128.43	23.5000	1.078
5.00	1039.9	548.8	128.50	19.0000	1.081
6.00	1040.8	549.8	128.57	16.0000	1.083
7.00	1041.6	550.5	128.64	13.8571	1.085
8.00	1042.1	551.0	128.68	12.2500	1.086
9.00	1042.6	551.5	128.75	11.0000	1.087
10.00	1042.9	551.9	128.81	10.0000	1.088
11.00	1043.3	552.2	128.85	9.1818	1.088
12.00	1043.6	552.5	128.89	8.5000	1.089
13.00	1043.9	552.9	128.94	7.9231	1.090
14.00	1044.1	553.1	128.99	7.4286	1.090
15.00	1044.3	553.3	129.03	7.0000	1.091
16.00	1044.5	553.5	129.07	6.6250	1.091
17.00	1044.6	553.6	129.11	6.2941	1.091
18.00	1044.8	553.7	129.16	6.0000	1.092
19.00	1045.0	554.0	129.19	5.7368	1.092
20.00	1045.2	554.2	129.22	5.5000	1.092
21.00	1045.3	554.3	129.27	5.2857	1.093
22.00	1045.4	554.4	129.31	5.0909	1.093
23.00	1045.6	554.6	129.34	4.9130	1.093
24.00	1045.7	554.6	129.37	4.7500	1.093
25.00	1045.8	554.8	129.42	4.6000	1.094
26.00	1045.9	554.9	129.44	4.4615	1.094
27.00	1046.0	555.0	129.49	4.3333	1.094
28.00	1046.0	555.0	129.52	4.2143	1.094
29.00	1046.2	555.2	129.56	4.1034	1.095
30.00	1046.3	555.3	129.60	4.0000	1.095
31.00	1046.4	555.3	129.63	3.9032	1.095
32.00	1046.5	555.5	129.67	3.8125	1.095
33.00	1046.6	555.6	129.71	3.7273	1.095
34.00	1046.7	555.6	129.73	3.6471	1.096
35.00	1046.8	555.7	129.77	3.5714	1.096
36.00	1046.8	555.7	129.81	3.5000	1.096
37.00	1046.9	555.8	129.84	3.4324	1.096
38.00	1046.9	555.9	129.87	3.3684	1.096
39.00	1047.1	556.1	129.91	3.3077	1.096
40.00	1047.1	556.1	129.95	3.2500	1.096
41.00	1047.1	556.1	129.98	3.1951	1.097
42.00	1047.2	556.2	130.02	3.1429	1.097
43.00	1047.2	556.2	130.04	3.0930	1.097
44.00	1047.3	556.3	130.09	3.0455	1.097
45.00	1047.4	556.4	130.12	3.0000	1.097
46.00	1047.4	556.4	130.15	2.9565	1.097
47.00	1047.4	556.4	130.19	2.9149	1.097
48.00	1047.6	556.5	130.22	2.8750	1.097
49.00	1047.6	556.6	130.25	2.8367	1.097
50.00	1047.6	556.6	130.29	2.8000	1.098
51.00	1047.7	556.7	130.32	2.7647	1.098
52.00	1047.7	556.7	130.35	2.7308	1.098



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10376 DST #1 Petriello #1 Hollis R Sullivan Inc.

DATE: 11/29/97 TIME: 02:08:47

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
53.00	1047.8	556.8	130.38	2.6981	1.098
54.00	1047.8	556.8	130.42	2.6667	1.098
55.00	1047.9	556.9	130.45	2.6364	1.098
56.00	1047.9	556.9	130.48	2.6071	1.098
57.00	1047.9	556.8	130.51	2.5789	1.098
58.00	1047.9	556.9	130.54	2.5517	1.098
59.00	1048.0	557.0	130.58	2.5254	1.098
60.00	1048.1	557.0	130.62	2.5000	1.098
61.00	1048.1	557.1	130.64	2.4754	1.099
62.00	1048.1	557.1	130.67	2.4516	1.099
63.00	1048.2	557.2	130.71	2.4286	1.099
64.00	1048.2	557.2	130.74	2.4062	1.099
65.00	1048.3	557.3	130.77	2.3846	1.099
66.00	1048.4	557.3	130.80	2.3636	1.099
67.00	1048.3	557.3	130.83	2.3433	1.099
68.00	1048.4	557.4	130.87	2.3235	1.099
69.00	1048.4	557.4	130.90	2.3043	1.099
70.00	1048.4	557.4	130.91	2.2857	1.099
71.00	1048.4	557.4	130.96	2.2676	1.099
72.00	1048.4	557.4	130.98	2.2500	1.099
73.00	1048.5	557.5	131.01	2.2329	1.099
74.00	1048.5	557.5	131.04	2.2162	1.099
75.00	1048.5	557.5	131.08	2.2000	1.099
76.00	1048.6	557.6	131.10	2.1842	1.100
77.00	1048.6	557.5	131.14	2.1688	1.099
78.00	1048.7	557.6	131.16	2.1538	1.100
79.00	1048.7	557.7	131.20	2.1392	1.100
80.00	1048.8	557.7	131.22	2.1250	1.100
81.00	1048.8	557.8	131.25	2.1111	1.100
82.00	1048.8	557.8	131.28	2.0976	1.100
83.00	1048.8	557.8	131.30	2.0843	1.100
84.00	1048.8	557.8	131.34	2.0714	1.100
85.00	1048.9	557.8	131.36	2.0588	1.100
86.00	1048.9	557.9	131.39	2.0465	1.100
87.00	1048.9	557.9	131.41	2.0345	1.100
88.00	1049.0	558.0	131.45	2.0227	1.100
89.00	1049.0	557.9	131.48	2.0112	1.100
90.00	1049.1	558.0	131.51	2.0000	1.101
91.00	1049.1	558.0	131.52	1.9890	1.101
92.00	1049.1	558.1	131.55	1.9783	1.101
93.00	1049.1	558.0	131.58	1.9677	1.101
94.00	1049.0	558.0	131.61	1.9574	1.100
95.00	1049.1	558.1	131.64	1.9474	1.101
96.00	1049.1	558.1	131.67	1.9375	1.101
97.00	1049.1	558.1	131.70	1.9278	1.101
98.00	1049.1	558.1	131.72	1.9184	1.101
99.00	1049.1	558.1	131.75	1.9091	1.101
100.00	1049.2	558.1	131.78	1.9000	1.101
101.00	1049.3	558.2	131.81	1.8911	1.101
102.00	1049.2	558.2	131.85	1.8824	1.101
103.00	1049.3	558.2	131.85	1.8738	1.101

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10376 DST #1 Petriello #1 Hollis R Sullivan Inc.

DATE: 11/29/97 TIME: 02:08:47  
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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	104.00	1049.3	558.3	131.86	1.8654	1.101
	105.00	1049.3	558.3	131.89	1.8571	1.101
	106.00	1049.3	558.3	131.93	1.8491	1.101
	107.00	1049.4	558.3	131.96	1.8411	1.101
	108.00	1049.4	558.4	131.98	1.8333	1.101
	109.00	1049.3	558.3	132.01	1.8257	1.101
	110.00	1049.4	558.4	132.04	1.8182	1.101
	111.00	1049.4	558.4	132.06	1.8108	1.101
	112.00	1049.5	558.4	132.09	1.8036	1.101
	113.00	1049.5	558.4	132.10	1.7965	1.101
	114.00	1049.5	558.5	132.13	1.7895	1.102
	115.00	1049.7	558.6	132.16	1.7826	1.102
	116.00	1049.5	558.5	132.19	1.7759	1.102
	117.00	1049.6	558.6	132.20	1.7692	1.102
	118.00	1049.6	558.6	132.23	1.7627	1.102
	119.00	1049.6	558.6	132.24	1.7563	1.102
***** End Shut-in 2	120.00	1049.7	558.7	132.27	1.7500	1.102
***** Final Hydro.	455.00	2495.8	0.0	132.37		

# TEST HISTORY

10376 DST #1 Petriello #1 Hollis R Sullivan Inc.

Flag Points  
t(Min.) P(PSig)

A:	0.00	2523.82
B:	0.00	52.11
C:	31.00	316.45
D:	57.00	1047.31
E:	0.00	325.75
F:	59.00	491.03
G:	120.00	1049.69
Q:	0.00	2495.80

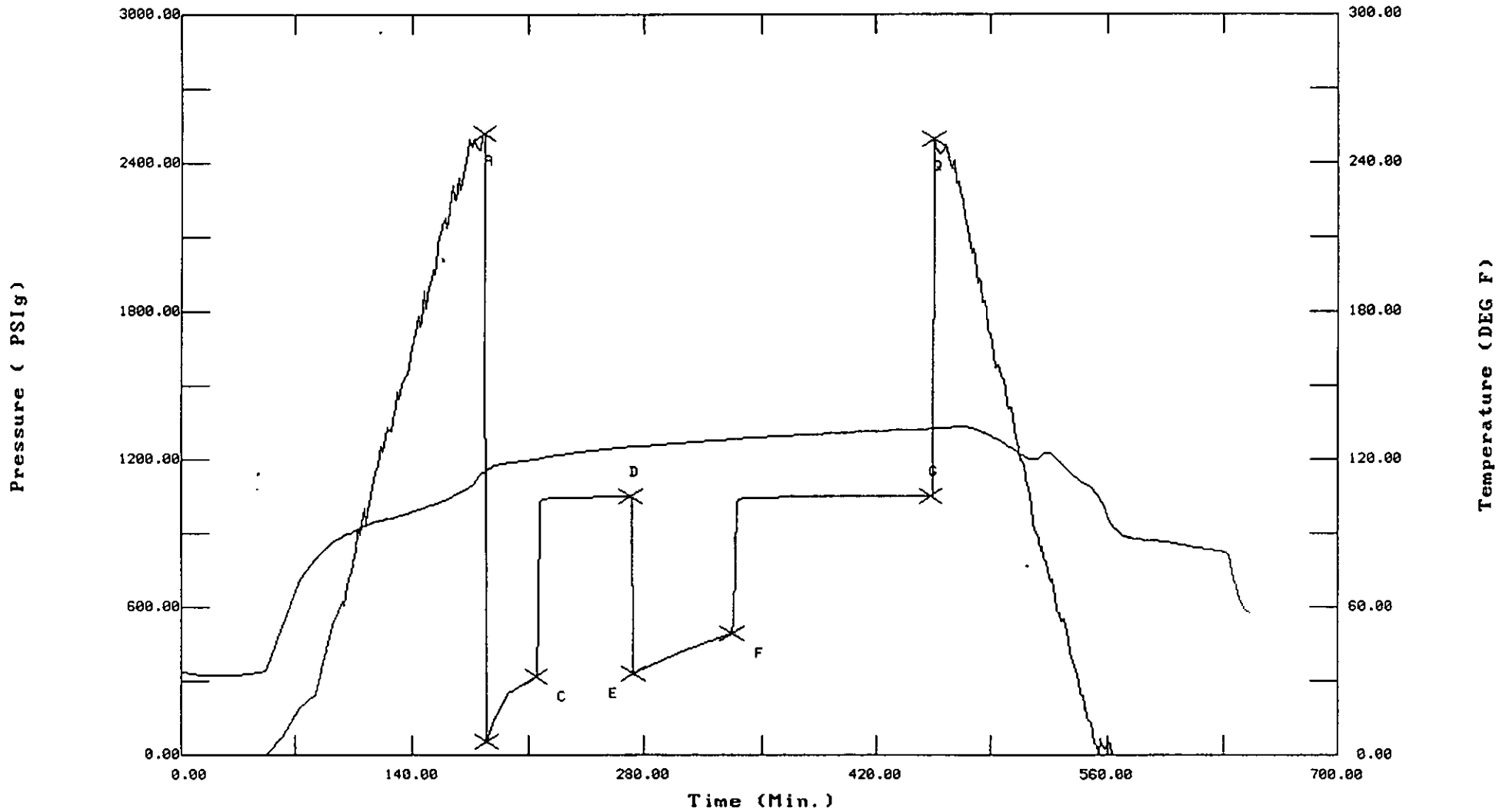
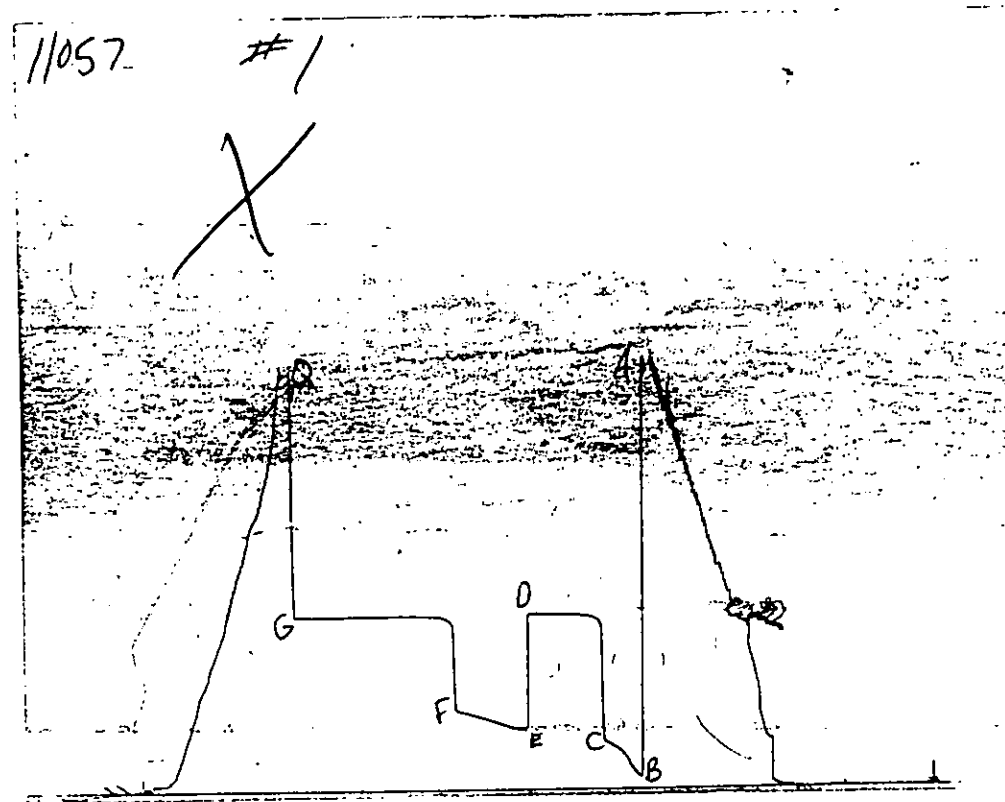


CHART PAGE



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 10376 Date 11-28-97  
Company Name Hollis R Sullivan Inc.  
Lease Petrovella #1 Test No. #1  
County Greeley, KS Sec. 16 Twp. 18 Rng. 42

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
Oil \_\_\_\_\_ ML  
Mud \_\_\_\_\_ ML  
Water 4,000 ML  
Other \_\_\_\_\_ ML  
Pressure 360 PSI  
Total 4,000 ML

### PIT MUD ANALYSIS

Chlorides 6,000 ppm.  
Resistivity 1.4 ohms @ 50° F  
Viscosity 49  
Mud Weight 9.2  
Filtrate 9.6  
Other LCM #1

### SAMPLER ANALYSIS

Resistivity .18 ohms @ 72 F  
Chlorides 36,000 ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity .20 ohms @ 73 F  
Chlorides 35,000 ppm.  
MIDDLE  
Resistivity .19 ohms @ 73 F  
Chlorides 35,500 ppm.  
BOTTOM  
Resistivity .18 ohms @ 72 F  
Chlorides 36,000 ppm.

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

APR 09 1999

FROM CONFIDENTIAL  
No 10376

## Test Ticket

Well Name & No. Petresella #1 Test No. #1 Date 11-28-97  
 Company Hollis R. Sullivan Inc. Zone Tested margin  
 Address P.O. Box 2506 Wichita Falls, Texas 76307 Elevation 3851' KB 3841' GL  
 Co. Rep / Geo. Tony Cont. Murfin #24 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 16 Twp. 18 Rge. 42 Co. Greeley State KS  
 No. of Copies None Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) \_\_\_\_\_

Interval Tested 5107' 5126' Initial Str Wt./Lbs. 68,000 Unseated Str Wt./Lbs. 72,000  
 Anchor Length \_\_\_\_\_ 18' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 93,000  
 Top Packer Depth \_\_\_\_\_ 5101' Tool Weight 4,000  
 Bottom Packer Depth \_\_\_\_\_ 5107' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth \_\_\_\_\_ 5125' Wt. Pipe Run \_\_\_\_\_ Drill Collar Run 480'  
 Mud Wt. 9.2 LCM #1 Vis. 49 WL 9.6 Drill Pipe Size 4 1/2 XH Ft. Run 4628'  
 Blow Description B.O.B in 12 1/2 min.

I.S.I: No return  
 F.F: B.O.B in 32 min.  
 B.S.I: No return

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>40'</u>	Feet Of <u>Mud cut Water</u>	<u>480'</u>	<u>434'</u>			<u>60</u>	<u>40</u>
Rec. <u>874'</u>	Feet Of <u>Salt Water</u>					<u>100</u>	
Rec. _____	Feet Of <u>(Sulfur Sand)</u>						
Rec. _____	Feet Of _____						
Rec. _____	Feet Of _____						

BHT 133° °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW .20 @ 73 °F Chlorides 35,000 ppm Recovery Chlorides 6,000 ppm System

(A) Initial Hydrostatic Mud	<u>2536</u> <u>2523</u> PSI	Recorder No. <u>2346</u>	T-Started <u>13:10 P.M.</u>
(B) First Initial Flow Pressure	<u>56</u> <u>52</u> PSI	(depth) <u>5113'</u>	T-Open <u>16:13 P.M.</u>
(C) First Final Flow Pressure	<u>280</u> <u>316</u> PSI	Recorder No. <u>11057</u>	T-Pulled <u>20:43 P.M.</u>
(D) Initial Shut-in Pressure	<u>1040</u> <u>1047</u> PSI	(depth) <u>5120'</u>	T-Out <u>24:10 AM</u>
(E) Second Initial Flow Pressure	<u>358</u> <u>325</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure	<u>470</u> <u>491</u> PSI	(depth) _____	
(G) Final Shut-in Pressure	<u>1040</u> <u>1049</u> PSI	Initial Opening <u>30</u>	Test <u>X</u>
(H) Final Hydrostatic Mud	<u>2513</u> <u>2495</u> PSI	Initial Shut-in <u>60</u>	Jars <u>X</u>
	<u>AK-1</u> <u>Alpine</u>	Final Flow <u>60</u>	Safety Joint <u>X</u>
		Final Shut-in <u>120</u>	Straddle _____

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Approved By [Signature]  
 Our Representative [Signature]  
 TOTAL PRICE \$ \_\_\_\_\_

Circ. Sub X N/C  
 Sampler X  
 Extra Packer Shale Packer  
 Elect. Rec. Y  
 Other \_\_\_\_\_