

ORIGINAL

SIDE ONE

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

Operator: License # 8914

Name: H & C Oil Operating, Inc.

Address P.O. Box 86

Plainville, KS 67663

City/State/Zip

Purchaser: D & A

Operator Contact Person: Charles Ramsay

Phone 913/434-7434

Contractor: Name: ALLEN DRILLING COMPANY

License: 5418

Wellsite Geologist: Wes Lilley

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: N/A

Well Name: \_\_\_\_\_

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

Drilling Method:

Mud Rotary  Air Rotary  Cable

7/29/91 8/05/91 8/05/91

Spud Date Date Reached TD Completion Date

API NO. 15- 185-22,790-6000

County Stafford

E/2 SW NW Sec. 29 Twp. 25S Rge. 13  East West

3300 Ft. North from Southeast Corner of Section

4290 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

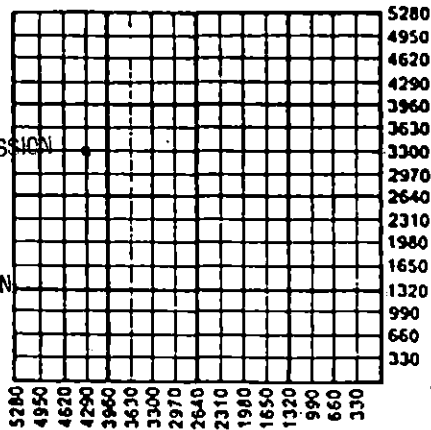
Lease Name REISSIG Well # 1

Field Name McCandlass

Producing Formation D & A

Elevation: Ground 1850 KB 1856

Total Depth 4350 PBDT --



Amount of Surface Pipe Set and Cemented at 350 Feet

Multiple Stage Cementing Collar Used?  Yes  No

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

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Charles R. Ramsay

Title Vice-President Date 8-23-91

Subscribed and sworn to before me this 26<sup>th</sup> day of August, 19 91.

Notary Public Irene Fellhoelter

Date Commission Expires \_\_\_\_\_

NOTARY PUBLIC - State of Kansas  
IRENE FELLHOELTER  
My Appt. Expires  
4-4-95

K.C.C. OFFICE USE ONLY

F  Letter of Confidentiality Attached

C  Wireline Log Received

C  Drillers Timelog Received

Distribution

KCC  SWD/Rep  NGPA

KGS  Plug  Other (Specify)

P1

SIDE TWO

Operator Name H&C OIL OPERATING, INC. Lease Name REISSIG Well # 1  
 Sec. 29 Twp. 25S Rge. 13  East County Stafford  
 West

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 Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p style="text-align: center;"><b>Formation Description</b></p> <p style="text-align: center;"><input type="checkbox"/> Log <input type="checkbox"/> Sample</p> <p>Name _____ Top _____ Bottom _____</p> <p style="text-align: center;">Geo Info. enclosed</p>
--	--

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
surface	12-1/4"	8-5/8"	20#	350	40/60poz	215	2%gel 3%cc
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
	Size	Set At	Packer At				
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours		Oil Bbls.	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  Perforation  Dually Completed  Commingled

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

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

DISTRICT Pratt, Ks.

DATE 8/5/91

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: HIC OPERATING (CUSTOMER)  
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE REISSIG SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RANGE \_\_\_\_\_

FIELD \_\_\_\_\_ COUNTY Stafford STATE Ks. OWNED BY SAME

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
BORE HOLE							
INITIAL PROD: OIL _____ BPD, H <sub>2</sub> O _____ BPD, GAS _____ MCF							
PRESENT PROD: OIL _____ BPD, H <sub>2</sub> O _____ BPD, GAS _____ MCF							
CASING		<u>New</u>	<u>20#</u>	<u>8 5/8"</u>	<u>⊖</u>	<u>355'</u>	
LINER							
TUBING							
OPEN HOLE				<u>7 7/8"</u>	<u>355'</u>	<u>1350'</u>	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_

Plug well as follows w/ 140SKs 40/60 Por. 69% oil: 50SKs @ 840', 50SKs @ 380'  
10 SK @ 40', 15 SKs Rat Hole; 15SKs in water well

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
  - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
    - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
    - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
    - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
  - That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
  - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
  - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton (its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
  - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act to the extent permitted by law.
  - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
  - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

AUG 28 1991

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED Mike Kern CUSTOMER

DATE 8/5/91

TIME 2:00 A.M. (P.M.)

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

**JOB LOG**

FORM 2013 R-2

WELL NO. 1 LEASE REISSIG TICKET NO. 17355/  
 CUSTOMER H.C. OPERATING PAGE NO. 1 ORIGINAL  
 JOB TYPE Plug to Abandon DATE 8/5/91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	17:00							Called for job - Ready @ 20:00
	19:35							On location - Rig crew laying down drill pipe
	2125							Drill Pipe @ 800' Hook up & plug as follows
			10.0			0		Water Ahead
			13.9			0		50 sks 40/100 Piz. 60' seal
	2135		8.5			0		Displace cement
	2202							Drill Pipe @ 350' Hook up & plug as follows
			10.1			0		Water Ahead
			13.9			0		50 sks 40/100 Piz. 10' seal
	2210		2.1			0		Displace cement
								Drill Pipe laid down
								Plug Patch hole w/ 15 sks 40/60 Piz
	2245		7.02			0		40' from surface to surface w/ 100 sks
								Job complete Thank You!

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STATE CORPORATION COMMISSION

AUG 28 1991

CORPORATION DIVISION  
Wichita, Kansas

CUSTOMER



# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

*Pratt, Ok*  
*Pratt, Ok*

**ORIGINAL**  
BILLED ON TICKET NO. *113551*

## WELL DATA

FIELD \_\_\_\_\_ SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RNG. \_\_\_\_\_ COUNTY *Stafford* STATE *Ks*

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_

FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_

INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD

COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_

PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH *4350'*

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<i>W</i>	<i>24#</i>	<i>95/8"</i>	<i>0</i>	<i>355'</i>	
LINER						
TUBING						
OPEN HOLE			<i>7 7/8"</i>	<i>355'</i>	<i>4350'</i>	SHOTS/ET.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

## JOB DATA

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>8/15/91</i>	DATE <i>8/15/91</i>	DATE <i>8/15/91</i>	DATE <i>8/15/91</i>
TIME <i>1700</i>	TIME <i>1935</i>	TIME <i>225</i>	TIME <i>2045</i>

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>J. Arand 56946</i>	<i>35901 Suburban</i>	<i>Pratt, Ks</i>
<i>C. Touchette</i>	<i>52504 Pump Truck</i>	<i>" "</i>
<i>J. Sheets 67187</i>	<i>440 05LB Bulk Tank</i>	<i>St. Bond</i>

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL-<sup>0</sup>API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL-<sup>0</sup>API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %

SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.

NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.

FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.

GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.

FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.

BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.

BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.

PERFPAC-BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT *C-1*

DESCRIPTION OF JOB *PTA 50 SKS @ 840'*  
*50 SKS @ 380'*  
*10 SKS @ 40'*  
*15 SKS Rot hole - 15 SKS water used*

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR *J. Arand*

COPIES REQUESTED \_\_\_\_\_

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<i>1</i>	<i>140</i>	<i>Poz 40/60</i>	<i>Posilam</i>	<i>Bulk</i>	<i>STATE COOPERATION COMMISSION</i>	<i>1.56</i>	<i>13.39</i>

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**AUG 28 1991**

## PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN: \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET \_\_\_\_\_ REASON \_\_\_\_\_

## SUMMARY

## CONSERVATION VOLUMES

PRESLUSH: BBL-GAL \_\_\_\_\_ TYPE \_\_\_\_\_

LOAD & BKDN: BBL-GAL \_\_\_\_\_ PAD: BBL-GAL \_\_\_\_\_

TREATMENT: BBL-GAL \_\_\_\_\_ DISPL: BBL-GAL \_\_\_\_\_

CEMENT SLURRY: BBL-GAL \_\_\_\_\_

TOTAL VOLUME: BBL-GAL \_\_\_\_\_

## REMARKS

*See Job log - Thank You!*

CUSTOMER: *HIC Operating*  
LEASE: *RETURNS*  
WELL NO: *1*  
JOB TYPE: *PTA*  
DATE: *8/15/91*

ORIGINAL

**GEOLOGICAL REPORT**

**H & C OIL OPERATING INC.**

**REISSIG #1**

**C - E2 - SW - NW - SEC. 29 - T.25S. - R.13W.**

**Stafford County, Kansas**

*API 15-185-22790*

**QUIVIRA ENERGY CORPORATION**  
7074 South Elm Street  
Littleton, Colorado 80122

303-771-9626

RECEIVED  
STATE CORPORATION

AUG 28 1991

CONSERV.  
Wichita

## GEOLOGICAL REPORT

H & C Oil Operating Inc.  
Reissig #1  
C - E2 - 5W - NW - 29 - 25S. - 13W.  
Stafford County, Kansas

STATUS: Plugged and Abandoned

CONTRACTOR: Allen Drilling Company Rig 3

ELEVATIONS: G.L. = 1950 ft. K.B. = 1955 ft.

COMMENCED: July 29, 1991

DRILLING COMPLETED: August 5, 1991

DRILL STEM TESTS: Arrow Testing Co. (3 DST's)

ELECTRIC LOGS: Great Guns: Radiation-Guard 340 - 4350

CASING: 8 5/8" surface casing set at 350'

WELL HISTORY: 7/29/91 Spud 12 1/4" hole. Set 350' 8 5/8" surface casing  
Cemented with 215 sacks 60-40 poz, 3% cc, 2%  
gel. Cement did circulate. Plug down 4:45 P.M.  
7/30/91 Drilling at 915'  
7/31/91 Drilling at 2287'  
8/1/91 Drilling at 3030'  
8/2/91 Drilling at 3639'  
8/3/91 Circulating at 3875' after DST 1.  
8/4/91 Drilling at 4090'  
8/5/91 Drilling at 4300'  
8/6/91 P & A; RTD = 4350' LTD = 4350'

FORMATION TOPS:

FORMATION	LOG TOPS
Stone Corral	833 (+1122)
B/Stone Corral	849 (+1106)
Heebner	3542 (-1587)
Douglas	3578 (-1623)
Brown Lime	3698 (-1743)
Lansing - Kansas City	3724 (-1769)
B/Kansas City	4003 (-2048)
Marmaton	4069 (-2114)
Mississippian	4106 (-2151)
Viola	4224 (-2269)
Simpson	4292 (-2337)
L.T.D.	4350 (-2395)

DRILL STEM TEST SUMMARY:

DST 1 3864 - 3875 (LKC "H" Zone)

30 - 30 - 30 - 30

Recovered:

3' Mud

IHP 1923

FHP 1923

IFP 11 - 11

FFP 11 - 11

ISIP 11

FSIP 11

Very weak blow dead in 9 minutes.

DST 2 3864 - 3929 (LKC "H, I, & J" Zones)

30 - 30 - 30 - 30

Recovered:

35' Mud with a few spots of oil on top of tool

IHP 1946

FHP 1946

IFP 47 - 47

FFP 70 - 70

ISIP 884

FSIP 778

Very weak blow on initial flow. Very weak blow dead in 11 minutes on final flow.



DST 3 4260 - 4275 (Viola)

30 - 30 - 90 - 90

Recovered:

125' Thin watery mud.

IHP 2197

FHP 2197

IFP 58 - 58

FFP 58 - 70

ISIP 966

FSIP 978

Very weak blow thru test.

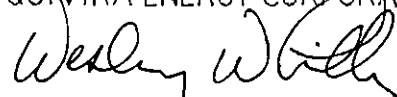
SAMPLE DESCRIPTIONS:

See attached geologic drilling time and lithology descriptions.

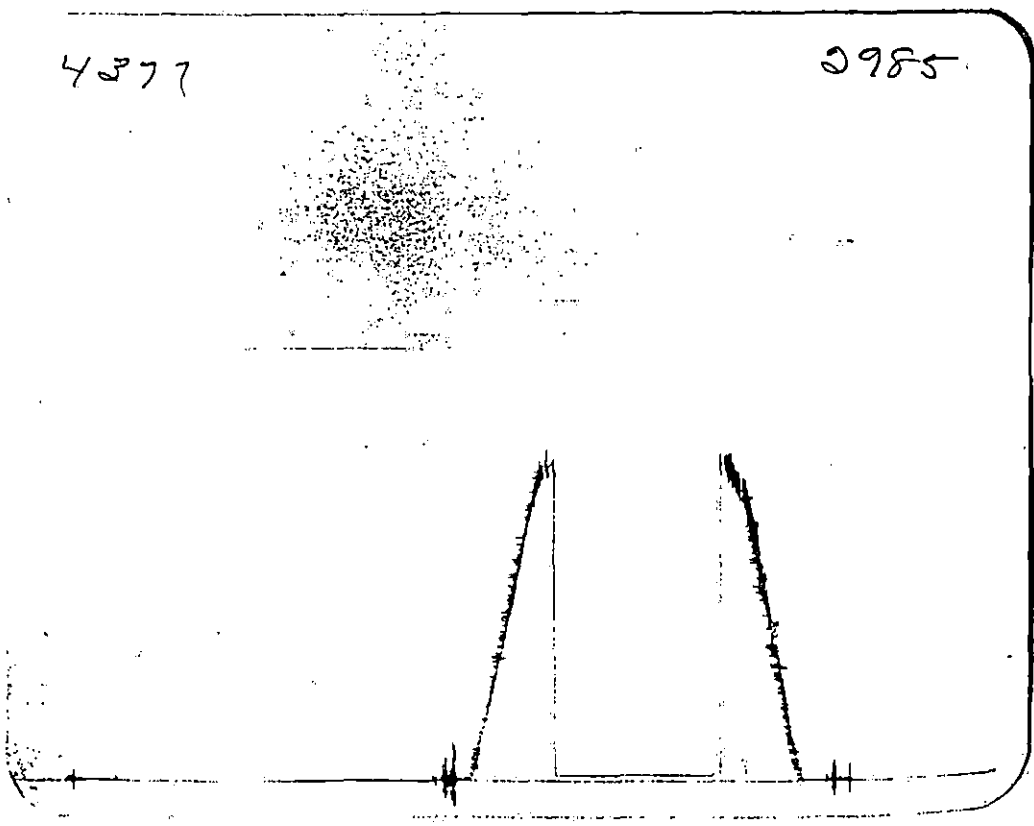
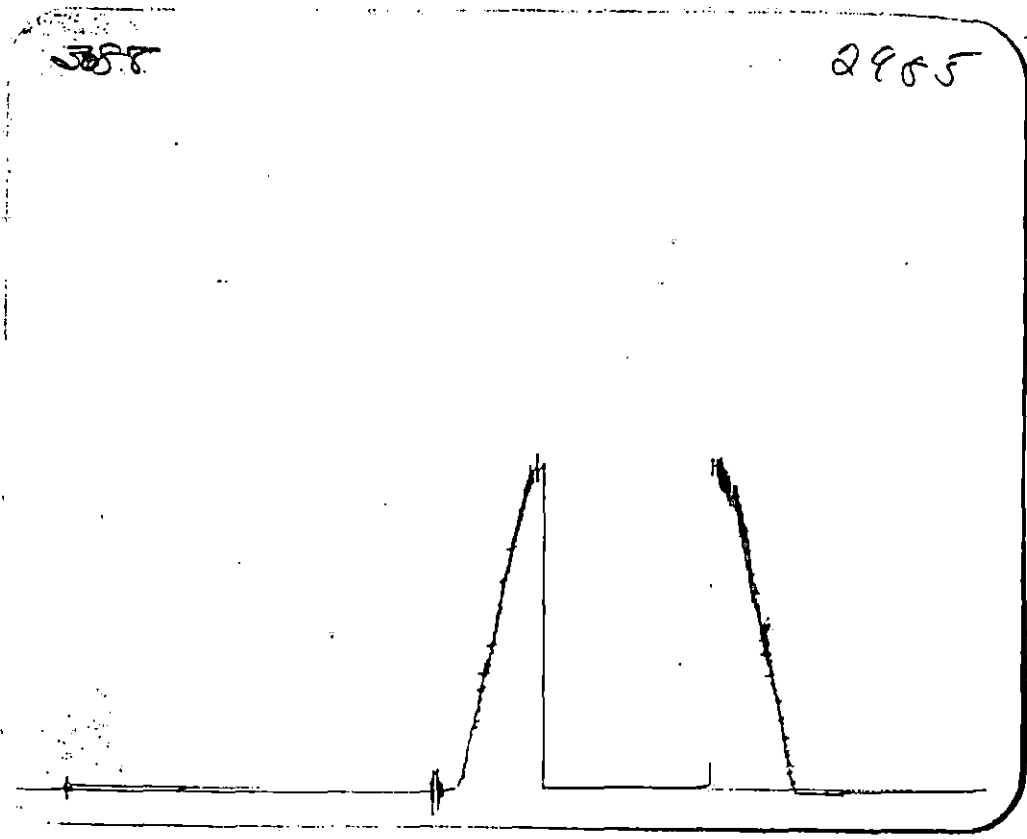
RECOMMENDATION:

Based upon the low structural position relative to the abandoned producers on the lease, lack of successful recoveries on the DST's, poor sample shows, and electrical log calculations, it was decided by all concerned parties that the subject well would be plugged and abandoned.

Respectfully submitted:  
QUIVIRA ENERGY CORPORATION



Wesley W. Willey, Ph.D  
CPG #2596, CES #1533



Name	
Net Number	
Company	
Comp. Rep	
Inspector	
Exp. No.	

- Recon
- Depth
- Initial
- Initial
- Initial
- Final
- Final
- Final
- Tempe
- Atm W
- Fluid
- Interva
- Top Pa
- Bottom
- Total D
- Brill P
- Brill C
- Recove
- Recove
- Recove
- Recove
- Recove
- Recove
- Remarks

INCHES

DRILL-STEM TEST DATA

Well Name	Reissig	Test No.	1
Well Number	1	Zone Tested	K.C.
Company	H & C Oil Operating, Inc.	Date	8-3-91
Comp. Rep.	W. Lilley	Tester	Don Fabricius
Contractor	Allen Drilling	Ticket No.	2985
Location	29-25-13	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12  
 Depth 3867 Depth 3871  
 Initial Hydro Mud Press. 1923 Initial Hydro Mud Press. 1924  
 Initial Shut-in Press. 11 Initial Shut-in Press. 11  
 Initial Flow Press. 11-11 Initial Flow Press. 11-11  
 Final Flow Press. 11-11 Final Flow Press. 11-11  
 Final Shut-in Press. 11 Final Shut-in Press. 11  
 Final Hydro Mud Press. 1923 Final Hydro Mud Press. 1924  
 Temperature \_\_\_\_\_ Tool Open Before I. S. I. 30 Mins.  
 Mud Weight 8.8 Viscosity 48 Initial Shut-in 30 Mins.  
 Fluid Loss 10 Flow Period 30 Mins.  
 Interval Tested 3864-75 Final Shut-in 30 Mins.  
 Top Packer Depth 3859 Surface Choke Size 1"  
 Bottom Packer Depth 3864 Bottom Choke Size 3/4"  
 Total Depth 3875 Main Hole Size 7 7/8  
 Drill Pipe Size 4 1/2 X H Wt. 16.60 Rubber Size 6 3/4  
 Drill Collar I. D. \_\_\_\_\_ Ft. Run \_\_\_\_\_  
 Recovery—Total Feet \_\_\_\_\_  
 Recovered 3 Feet Of mud.  
 Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
 Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
 Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
 Remarks  
Very weak blow dead in 9 min.

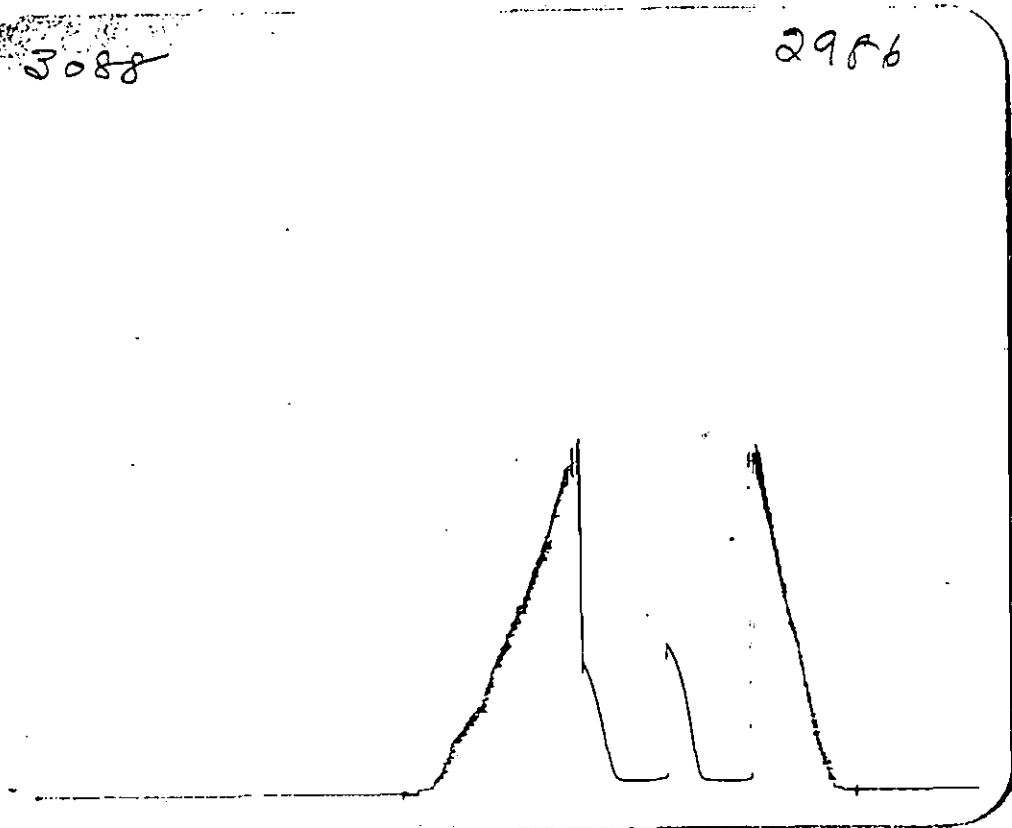
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 It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

By \_\_\_\_\_

ORIGINAL

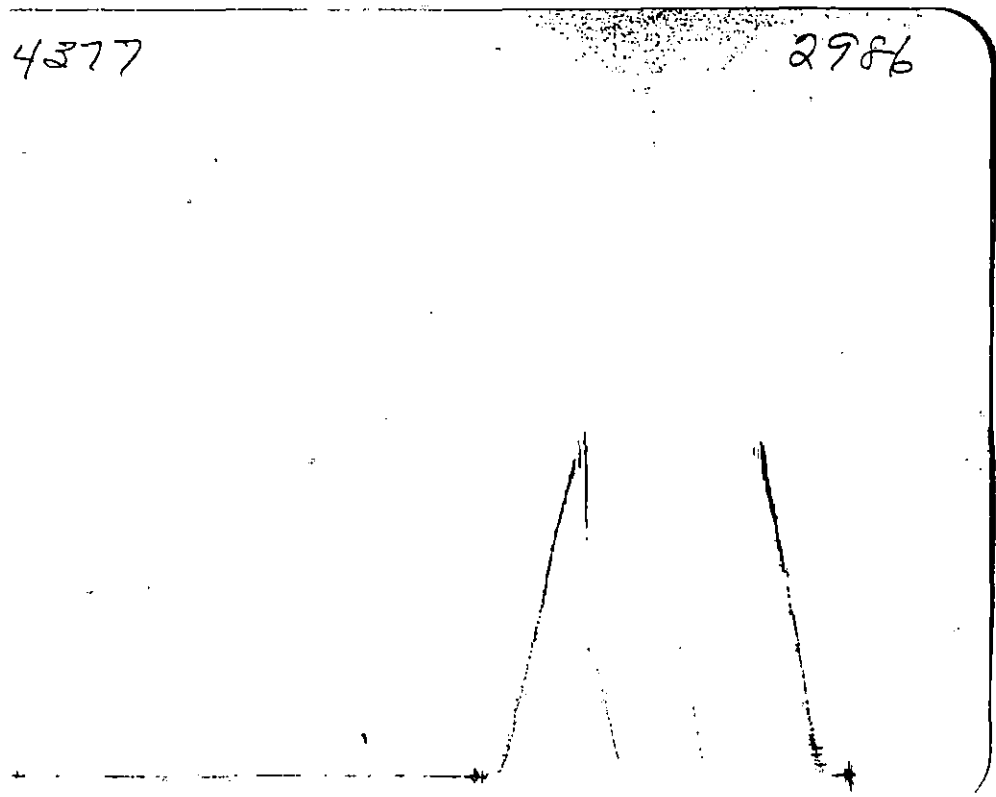
3088

2986



4377

2986



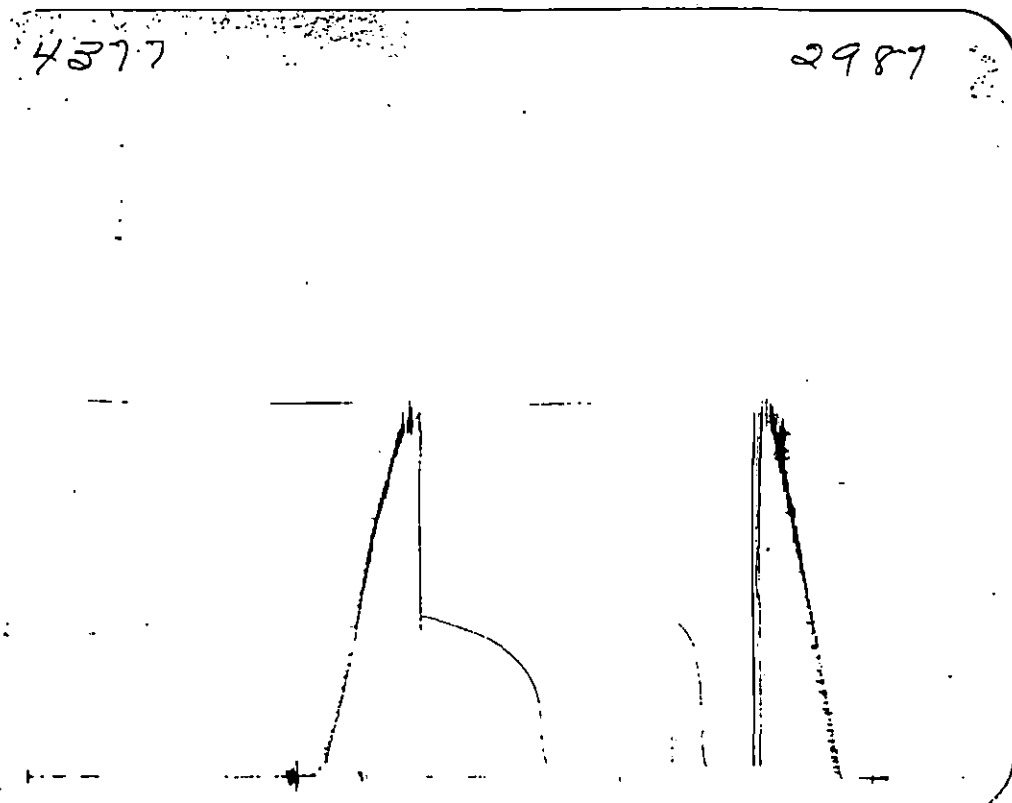
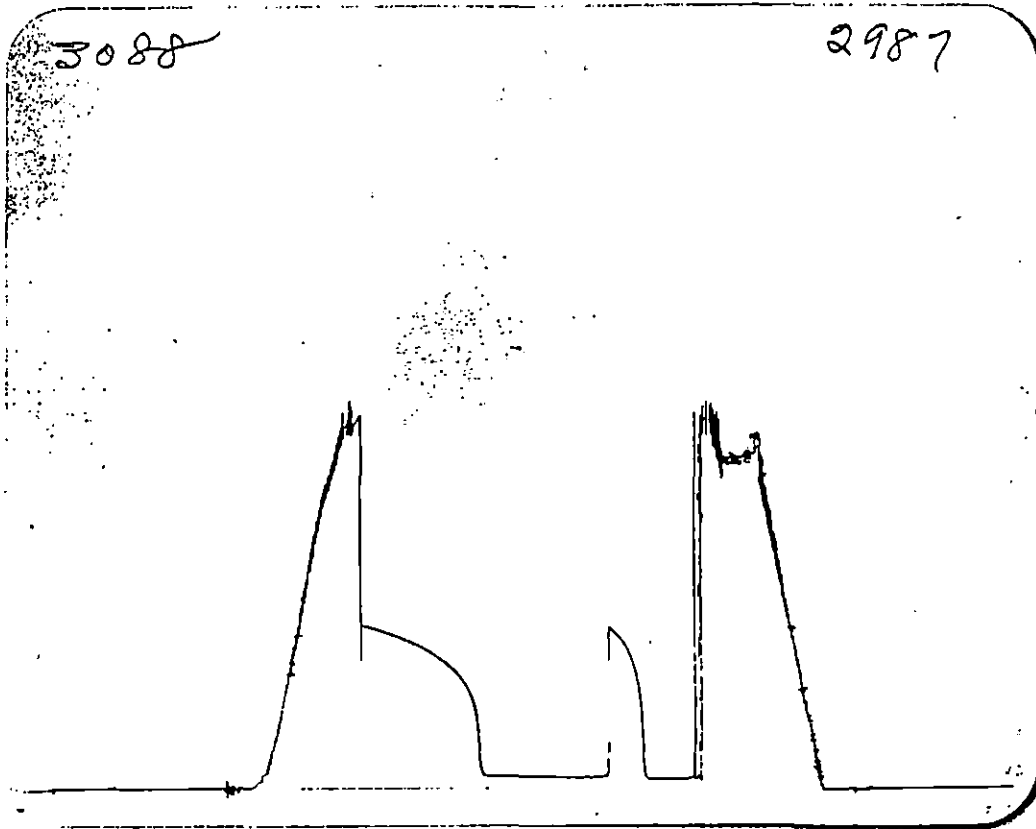
**DRILL-STEM TEST DATA**

Well Name	Reissig	Test No.	2
Well Number	1	Zone Tested	K.C.
Company	H & C Oil Operating, Inc.	Date	8-3-91
Comp. Rep.	W. Lilley	Tester	Don Fabricius
Contractor	Allen Drilling	Ticket No.	2986
Location	29-25-13	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12  
 Depth 3921 Depth 3925  
 Initial Hydro Mud Press. 1946 Initial Hydro Mud Press. 1947  
 Initial Shut-in Press. 884 Initial Shut-in Press. 892  
 Initial Flow Press. 47-47 Initial Flow Press. 68-68  
 Final Flow Press. 70-70 Final Flow Press. 82-82  
 Final Shut-in Press. 778 Final Shut-in Press. 786  
 Final Hydro Mud Press. 1946 Final Hydro Mud Press. 1947  
 Temperature \_\_\_\_\_ Tool Open Before I. S. I. 30 Mins.  
 Mud Weight 8.9 Viscosity 48 Initial Shut-in 30 Mins.  
 Fluid Loss 11.2 Flow Period 30 Mins.  
 Interval Tested 3864-3929 Final Shut-in 30 Mins.  
 Top Packer Depth 3859 Surface Choke Size 1"  
 Bottom Packer Depth 3864 Bottom Choke Size 3/4"  
 Total Depth 3929 Main Hole Size 7 7/8  
 Drill Pipe Size 4 1/2 X H. Wt. 16.60 Rubber Size 6 3/4  
 Drill Collar I. D. \_\_\_\_\_ Ft. Run \_\_\_\_\_  
 Recovery—Total Feet \_\_\_\_\_  
 Recovered 35 Feet Of mud with a few spots of oil on top  
 Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
 Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
 Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
 Remarks  
Very weak blow on initial flow— very weak blow dead in  
11 min on final flow

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**DRILL-STEM TEST DATA**

Well Name	Reissig	Test No.	3
Well Number	1	Zone Tested	<del>Simpson</del> <b>VIOLA</b>
Company	H & C Oil Operating, Inc.	Date	8-4-91
Comp. Rep.	W. Lilley	Tester	Don Fabricius
Contractor	Allen Drilling	Ticket No.	2987
Location	29-25-13	Elevation	

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>4267</u>		Depth <u>4271</u>	
Initial Hydro Mud Press. <u>2197</u>		Initial Hydro Mud Press. <u>2197</u>	
Initial Shut-in Press. <u>966</u>		Initial Shut-in Press. <u>974</u>	
Initial Flow Press. <u>58-58</u>		Initial Flow Press. <u>58-58</u>	
Final Flow Press. <u>58-70</u>		Final Flow Press. <u>70-70</u>	
Final Shut-in Press. <u>978</u>		Final Shut-in Press. <u>985</u>	
Final Hydro Mud Press. <u>2197</u>		Final Hydro Mud Press. <u>2197</u>	
Temperature _____		Tool Open Before I. S. I. <u>30</u>	Mins.
Mud Weight <u>9.2</u>	Viscosity <u>50</u>	Initial Shut-in <u>30</u>	Mins.
Fluid Loss <u>11.6</u>		Flow Period <u>90</u>	Mins.
Interval Tested <u>4260-75</u>		Final Shut-in <u>90</u>	Mins.
Top Packer Depth <u>4255</u>		Surface Choke Size <u>1"</u>	
Bottom Packer Depth <u>4260</u>		Bottom Choke Size <u>3/4"</u>	
Total Depth <u>4275</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 X H</u>	Wt. <u>16.60</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. _____	Ft. Run _____		
Recovery—Total Feet _____			
Recovered <u>125</u>	Feet Of <u>thin watery mud</u>		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Recovered _____	Feet Of _____		
Remarks			
	<u>Very weak blow thru test</u>		

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By \_\_\_\_\_