

ORIGINAL

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

Operator: License # 5235

Name: Producers Oil Company

Address: 427 S. Boston - Suite 711

City/State/Zip Tulsa, OK 74013-4199

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

Operator Contact Person: Phillip W. Terry

Phone (918) 582-1188

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Jim Musgrove

Designate Type of Completion  
 New Well  Re-Entry  Workover

- Oil  SWD  SIOV  Temp. Abd.
- Gas  ENHR  SIGV
- 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  PSTD
- Commingled  Docket No. \_\_\_\_\_
- Dual Completion  Docket No. \_\_\_\_\_
- Other (SWD or Inj?)  Docket No. \_\_\_\_\_

<u>07-18-96</u>	<u>07-24-96</u>	<u>07-24-96</u>
Spud Date	Date Reached TD	Completion Date

API NO. 15- 155-21392 0000

County Reno County, Kansas

SE NW Sec. 23 Twp. 23S Rge. 4  XX <sup>E</sup> <sub>W</sub>

3465 Feet from (S)N (circle one) Line of Section

3300 Feet from (E)W (circle one) Line of Section

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

Lease Name Vansickle Well # 7

Field Name Burrton Pool

Producing Formation \_\_\_\_\_

Elevation: Ground 1468' KB 1476'

Total Depth 3669' PSTD 4000'

Amount of Surface Pipe Set and Cemented at 265' 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/ \_\_\_\_\_  XX cat.

Drilling Fluid Management Plan D+A 12-31-97 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls

Dewatering method used \_\_\_\_\_

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

Operator Name \_\_\_\_\_ 8-8-1996

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. <sup>1996</sup> <sub>E/W</sub>

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

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 Phillip W. Terry  
Title Vice President Date 8/6/96

Subscribed and sworn to before me this 6 day of August, 19 96.

Notary Public Sheryl J. Tolks

Date Commission Expires MY COMMISSION EXPIRES 5-06-00

K.C.C. OFFICE USE ONLY		
F	<input 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"/> MGA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other
(Specify)		

Operator Name Producers Oil Company Lease Name Vansickle Well # 7  
 Sec. 23 Twp. 23S Rge. 4  East  West  
 County Reno 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 type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

List All E.Logs Run:  
*Dual Ind. Log*  
*Micro Log*  
*Dual Comp. Por. Log*

CASING RECORD <input checked="" 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	17-1/2"	13-3/8"	48#	265'	60/40 Poz	250	6%gel 2%cc

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
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)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	<i>N-A</i>	<i>N-A</i>				

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

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

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

# ALLIED CEMENTING CO., INC.

4239

15-155-21392

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

ORIGINAL

SERVICE POINT:

Grant Bend

DATE <u>7-24-96</u>	SEC. <u>23</u>	TWP. <u>23</u>	RANGE <u>4</u>	CALLED OUT <u>2:30 PM</u>	ON LOCATION <u>5:15 PM</u>	JOB START <u>7:30 PM</u>	JOB FINISH <u>8:15 PM</u>
LEASE <u>Vansickle</u>	WELL # <u>7</u>	LOCATION <u>50 &amp; 61 Jct - 9E, 3/4N, E/1st</u>			COUNTY <u>Grant</u>	STATE <u>KA</u>	

OLD OR NEW (Circle one)

CONTRACTOR Andre Ric #2  
 TYPE OF JOB Rotary Plug  
 HOLE SIZE 7 7/8" O.D. 314.9'  
 CASING SIZE 13 3/8 (comp) DEPTH 265'  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2" DEPTH 550'  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG.  
 PERFS.

OWNER Same  
 CEMENT  
 AMOUNT ORDERED 110 lbs 60/40, 48 lbs  
 COMMON @  
 POZMIX @  
 GEL @  
 CHLORIDE @  
 @  
 @  
 @  
 @  
 @  
 @  
 HANDLING @  
 MILEAGE @

**EQUIPMENT**

PUMP TRUCK CEMENTER Tom D.  
 # 181 HELPER Bob B  
 BULK TRUCK  
 # 214 DRIVER Tom W.  
 BULK TRUCK  
 # DRIVER

**REMARKS:**

Mixed - 35 lbs @ 550'  
50 lbs @ 314'  
50 lbs @ 60'  
15 lbs in Bottle  
10 lbs in Mousehole

[Signature]

**SERVICE**

DEPTH OF JOB 550'  
 PUMP TRUCK CHARGE  
 EXTRA FOOTAGE @  
 MILEAGE @  
 PLUG ~~150~~ @  
 @  
 @

RECEIVED  
 KANSAS CORP CEM  
 1996 JUL - 8 P 12:08

TOTAL

CHARGE TO: Producers Oil Co.  
 STREET 427 S. Boston Suite 711  
 CITY Tulsa STATE OKla ZIP 74113-4199

**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.

SIGNATURE [Signature]

TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

**WARRANTIES:** 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

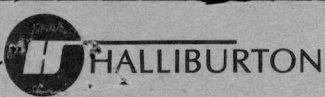
(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

**JOB LOG** HAL-2013-C

 CUSTOMER MOOREHEADS OIL CO. WELL NO. #7 LEASE VAHNSICKLE UNIT SUMP C34 JOB TYPE 1411 SUMP C34 TICKET NO. 968471

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	1730							CHILLED OUT - 7-10-96
	1730							ON LOCATION 7-10-96
	1830							RIG DRILLING
								TRUCKS ON LOC 7-10-96
								CUT 265 FT. OF 17 1/2 inch Hole
								RUN 265 FT. OF 13 3/4 48" CASING
								CASE IN ON BATTLE RATE IN
								1 <sup>ST</sup> COLLAR
								CASING ON BOTTOM
								START CASE. AT MID POINT
								HOOK UP HOWEO TO CASING
	2020	6	0			200		START MIX CONC CHIT
		6	46			200		135 SKS HLE
		6	46			200		FINISH MIX CONC CHIT
								START MIX TRAC CHIT
								100 SKS. STABILIZER
	2033	6	67			150		FINISH MIX TRAC CHIT
								SPURT DOWN
								RELEASE TOP PLUG
	2035	6	0			0		START WASH
		3	30			75		SLOW RATE
	2040	1	37			125		PLUG DOWN
								CHIT. HOLD CONC AROUND
								THROTTLE PUMP 1/261 UNIT
								TO SEND UP CONC - CHECKED
								CASE. 50 SKS TO PIT ✓
	2130							WASH UP - BACK UP
								300'S AMPLITUDE
								THROTTLE PUMP





# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

*NEW CWT*  
*PLATE 1/2*

BILLED ON TICKET NO. *962471*

CUSTOMER: *PERDUE'S OIL CO.*  
LEASE: *UNISTOCK*  
WELL NO.: *A7*  
JOB TYPE: *WELL SURV. P.C.E.*  
DATE: *7-11-52*

## WELL DATA

FIELD \_\_\_\_\_ SEC. *23* TWP. *23S* RNG. *4W* COUNTY *REWO* STATE *KS*

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		<i>N</i>	<i>40</i>	<i>1 3/4</i>	<i>KS</i>	<i>215</i>	
LINER							
TUBING							
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

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 \_\_\_\_\_

## JOB DATA

TOOLS AND ACCESSORIES		JOB DATA				
TYPE AND SIZE	QTY.	MAKE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
FLOAT COLLAR			DATE <i>7-18</i>	DATE <i>7-18</i>	DATE <i>7-10</i>	DATE <i>7-10</i>
FLOAT SHOE			TIME <i>14:30</i>	TIME <i>1:30</i>	TIME <i>7:00</i>	TIME <i>2:30</i>
GUIDE SHOE						
CENTRALIZERS						
BOTTOM PLUG						
TOP PLUG <i>WOOD</i>	<i>1</i>	<i>Howser</i>				
HEAD <i>MANIFOLD</i>	<i>1</i>	<i>Howser</i>				
PACKER						
OTHER <i>BUFFLE PLATE</i>	<i>1</i>	<i>Howser</i>				

## PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. 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. \_\_\_\_\_

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

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

DEPARTMENT *PERMITS*

DESCRIPTION OF JOB \_\_\_\_\_

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR *K. Cowley*

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

## CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>155</i>	<i>HLC</i>		<i>B</i>	<i>6% TOTAL GEL, 2% CC, 1/4 1/4 FINE</i>	<i>1.69</i>	<i>13.1</i>
	<i>100</i>	<i>STANDARD</i>		<i>B</i>	<i>2% CC</i>	<i>1.18</i>	<i>15.6</i>

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_ PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_ LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_ TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. *37.0*

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_ CEMENT SLURRY: BBL.-GAL. *46.6 + 21 = 67.6*

HYDRAULIC HORSEPOWER \_\_\_\_\_ TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

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

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

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

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

FEET *29* REASON *BUFFLE PLATE*

15-155-21372

ORIGINAL

OPERATOR : PRODUCERS OIL CO  
 WELL NAME: VASICKLE #7  
 LOCATION : 23-23-4-RENO CO KS  
 INTERVAL : 3271.00 To 3317.00 ft

DATE 7-22-96  
 KB 1476.00 ft TICKET NO: 9397 DST #1  
 GR 1468.00 ft FORMATION: MISS  
 TD 3317.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF	30 Rec.	13849	13849	Alpine			PF Fr. 1245 to 1315 hr
SI	45 Range(Psi )	4375.0	4375.0	4995.0	0.0	0.0	IS Fr. 1315 to 1400 hr
SF	60 Clock(hrs)	12	12	BATT			SF Fr. 1400 to 1500 hr
FS	90 Depth(ft )	3314.0	3314.0	3275.0	0.0	0.0	FS Fr. 1500 to 1630 hr

	Field	1	2	3	4	
A. Init Hydro	1710.0	0.0	1571.0	0.0	0.0	T STARTED 1140 hr
B. First Flow	77.0	0.0	58.0	0.0	0.0	T ON BOTM 1240 hr
B1. Final Flow	177.0	0.0	159.0	0.0	0.0	T OPEN 1245 hr
C. In Shut-in	599.0	0.0	578.0	0.0	0.0	T PULLED 1630 hr
D. Init Flow	244.0	0.0	166.0	0.0	0.0	T OUT 1815 hr
E. Final Flow	333.0	0.0	315.0	0.0	0.0	
F. Fl Shut-in	599.0	0.0	575.0	0.0	0.0	
G. Final Hydro	1656.0	0.0	1485.0	0.0	0.0	
Inside/Outside	I	i	O			

TOOL DATA-----

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	60000.00 lbs
Initial Str Wt	36000.00 lbs
Unseated Str Wt	39000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	3.80 in
D.C. Length	0.00 ft
D.P. Length	0.00 ft

RECOVERY

Tot Fluid 615.00 ft of 0.00 ft in DC and 615.00 ft in DP  
 135.00 ft of GAS CUT WATERY MUD w/OIL SPOTS 5%G 30%W 65%M  
 240.00 ft of GAS CUT MUDDY WATER 5%G 40%M 55%W  
 240.00 ft of GASSY WATER 10%G 90%W  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

SALINITY 70000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

IF-STRONG-BOTTOM OF BUCKET IN 10 MIN

FF-STRONG-BOTTOM OF BUCKET IN 15 MIN

MUD DATA-----

Mud Type	CHEM
Weight	8.90 lb/cf
Vis.	42.00 S/L
W.L.	12.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 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	DAN BANGLE
Co. Rep.	JIM MUSGROVE
Contr.	DUKE
Rig #	2
Unit #	
Pump T.	

SAMPLES:  
 SENT TO:

Test Successful: Y

WELL NAME: VASICKLE #7

LOCATION : 23-23-4-RENO CO KS

TICKET No. 9397 D.S.T. No. 1 DATE 7-22-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 46

TOTAL TOOL ..... 73

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY ..... 73

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands53 Single 1 Total 3266

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3339

TOTAL DEPTH ..... 3317

TOTAL DRILL PIPE ABOVE K.B. .... 6

REMARKS:

P.O. SUB	
C.O. SUB	3243
S.I. TOOL STERLING	3249
ORIGINAL	
HMV STERLING	3254
JARS STERLING	3259
SAFETY JOINT BOWEN	
	3262
PACKER	3266
PACKER	3271
DEPTH 3271	
STUBB 1'	3272
ANCHOR 2' PERFS	3274
1' CO	3275
ALPIN RECORDER	3275
31' DP	3306
T.C. DEPTH	
1' CO	3307
5' PERFS	3312
AK-1 RECORDER	3314
BULLNOSE 5' BULL PLUG	3317
T.D.	

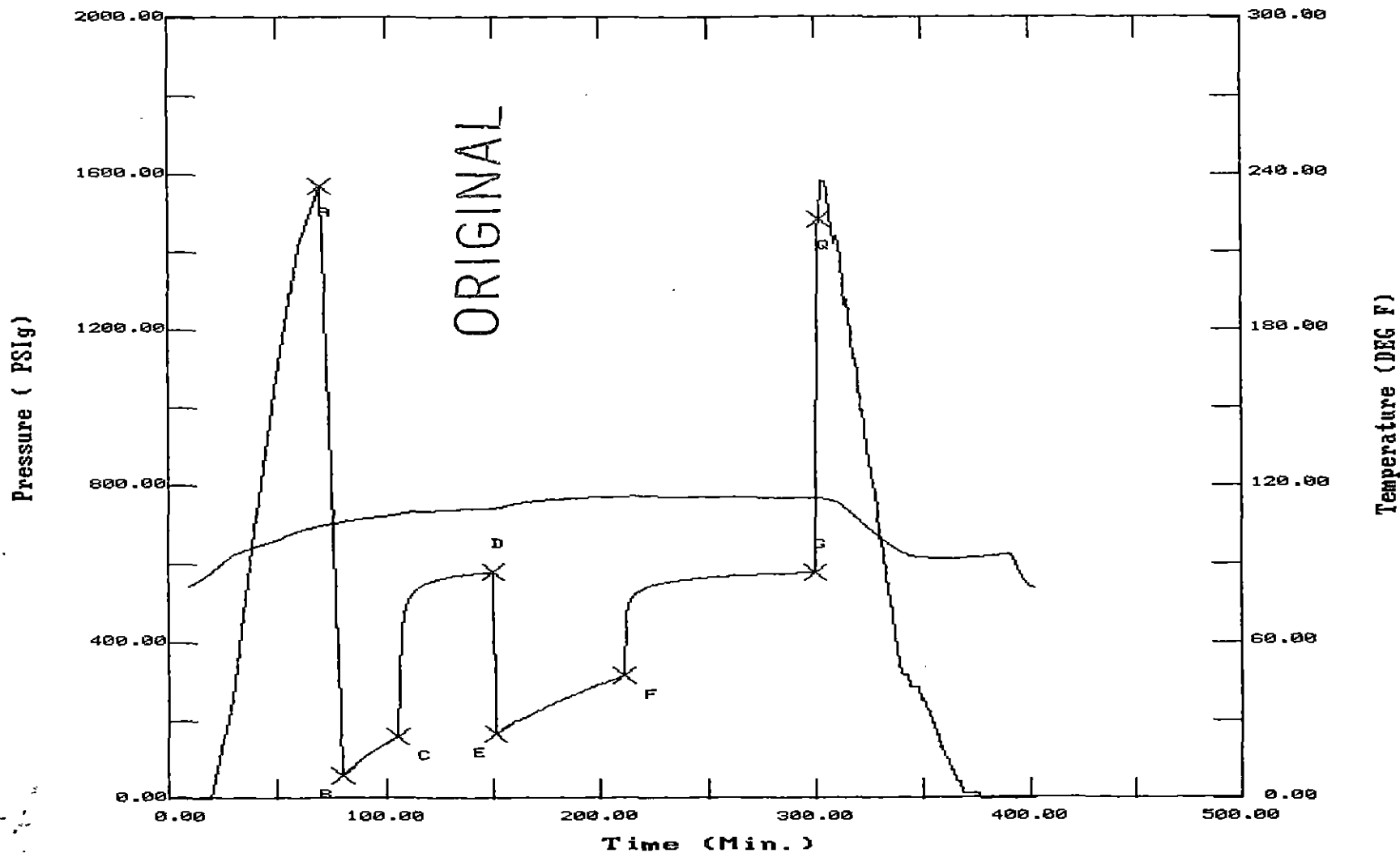
RECEIVED  
 KANSAS CORP CORP  
 1996 AUG - 8 P 12: 09



# TEST HISTORY

TK#9397 DST#1 UANSICKLE#7 PRODUCERS OIL CO

	Flag Points	
	t<Min.>	P< PSig>
A:	0.00	1571.12
B:	0.00	57.99
C:	25.00	158.87
D:	45.00	578.17
E:	0.00	166.59
F:	60.00	314.72
G:	89.00	575.48
Q:	0.00	1485.18



# TRILOBITE TESTING L.L.C.

Box 362 • Hays, Kansas 67601

ORIGINAL

15-155-21392

## Test Ticket

9397

Well Name & No: Vansickle #7 Test No. 1 Date 7-22-96  
 Company Producers Oil Co. Zone Tested Miss  
 Address 4275 Boston Tulsa Okla 74013-4199 Elevation 1476 KB 1468 GL  
 Co. Rep./Geo. Jim Musgrave Cont. Duke #2 Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 23 Rge. 4 Co. Reed State Ks  
 No. of Copies 3 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 2271 - 2317 Initial Str Wt./Lbs. 26,000 Unseated Str Wt./Lbs.       
 Anchor Length 46 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs.       
 Top Packer Depth 3266 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 3271 Wt. Pipe I.D. — 2.7 Ft. Run  
 Total Depth 3317 Drill Collar — 2.25 Ft. Run  
 Mud Wt. 8.9 LCM      Vis. 42 WL 12.8 Drill Pipe Size 4.5 x 11 Ft. Run       
 Blow Description F.E. Stang - B.O.B. in 10 min.

F.E. Stang - B.O.B. in 15 min.

Recovery — Total Feet	Ft. in DC	Ft. in WP	Ft. in DP
Rec. <u>135</u> Feet Of <u>G.C. Wt. Mud</u>	<u>75</u>	<u>75</u>	<u>615</u>
Rec. <u>240</u> Feet Of <u>G.C. Adv. Wt.</u>	<u>    </u>	<u>    </u>	<u>    </u>
Rec. <u>240</u> Feet Of <u>gassy wt.</u>	<u>    </u>	<u>    </u>	<u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>

BHT 110 °F Gravity      °API @      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 1600 ppm System

(A) Initial Hydrostatic Mud	<u>1710</u>   <u>1571</u> PSI	Recorder No. <u>    </u>	T-Started <u>11:40</u>
(B) First Initial Flow Pressure	<u>77</u>   <u>58</u> PSI	@ (depth) <u>2275</u>	T-Open <u>12:45</u>
(C) First Final Flow Pressure	<u>177</u>   <u>159</u> PSI	Recorder No. <u>13849</u>	T-Pulled <u>16:30</u>
(D) Initial Shut-in Pressure	<u>599</u>   <u>578</u> PSI	@ (depth) <u>3314</u>	T-Out <u>18:15</u>
(E) Second Initial Flow Pressure	<u>244</u>   <u>166</u> PSI	Recorder No. <u>    </u>	
(F) Second Final Flow Pressure	<u>333</u>   <u>215</u> PSI	@ (depth) <u>    </u>	
(G) Final Shut-in Pressure	<u>599</u>   <u>575</u> PSI	Initial Opening <u>30</u>	Test <u>    </u>
(H) Final Hydrostatic Mud	<u>1656</u>   <u>1485</u> PSI	Initial Shut-in <u>45</u>	Jars <input checked="" type="checkbox"/>
	<u>AK-1</u>	Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/>
		Final Shut-in <u>90</u>	Straddle <u>    </u>
		<u>57 + 1 studs</u>	Circ. Sub <u>    </u>
			Sampler <u>    </u>
			Extra Packer <u>    </u>
			Elect. Rec. <input checked="" type="checkbox"/>
			Other <u>    </u>
			TOTAL PRICE \$ <u>    </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 Jim Musgrave  
 Our Representative

TRILOBITE TESTING L.L.C.

OPERATOR : PRODUCERS OIL CO  
 WELL NAME : VAN SICKLE  
 LOCATION : 23-23-4-RENO-CO-KS  
 INTERVAL : 3605.00 To 3619.00 ft

DATE 7-23-96  
 KB 1476.00 ft  
 GR 1468.00 ft  
 TD 3619.00 ft

TICKET NO: 9398 DST #2  
 FORMATION: HUNTON  
 TEST TYPE: CONV

ORIGINAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA
PF 30	13849	13849	ALPINE			PF Fr. 1530 to 1600 hr
SI 45	4375.0	4375.0	4995.0	0.0	0.0	IS Fr. 1600 to 1645 hr
SF 60	12	12	BATT			SF Fr. 1645 to 1745 hr
FS 90	3616.0	3616.0	3606.0	0.0	0.0	FS Fr. 1745 to 1915 hr

	Field	1	2	3	4
A. Init Hydro	1808.0	0.0	1766.0	0.0	0.0
B. First Flow	555.0	0.0	511.0	0.0	0.0
B1. Final Flow	1039.0	0.0	1065.0	0.0	0.0
C. In Shut-in	1272.0	0.0	1262.0	0.0	0.0
D. Init Flow	1139.0	0.0	1078.0	0.0	0.0
E. Final Flow	1272.0	0.0	1262.0	0.0	0.0
F. Fl Shut-in	1272.0	0.0	1264.0	0.0	0.0
G. Final Hydro	1765.0	0.0	1749.0	0.0	0.0
Inside/Outside	I	I	O		

T STARTED 1410 hr  
 T ON BOTM 1525 hr  
 T OPEN 1530 hr  
 T PULLED 1915 hr  
 T OUT 2200 hr

TOOL DATA

Tool Wt.	2000.00	lbs
Wt Set On Packer	20000.00	lbs
Wt Pulled Loose	70000.00	lbs
Initial Str Wt	37000.00	lbs
Unseated Str Wt	50000.00	lbs
Bot Choke	0.75	in
Hole Size	7.88	in
D. Col. ID	0.00	in
D. Pipe ID	3.80	in
D.C. Length	0.00	ft
D.P. Length	3608.00	ft

RECOVERY

Tot Fluid 2860.00 ft of 0.00 ft in DC and 2860.00 ft in DP  
 45.00 ft of SOCGMW 20%G 2%O 68%W 10%M  
 120.00 ft of SOCGMW 10%G 1%O 79%W 10%M  
 300.00 ft of SOCGMW 10%G 1%O 84%W 5%M  
 2395.00 ft of SOCGW 10%G 1%O 89%W  
 278.00 ft of GIP  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 SALINITY 48000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA

Mud Type	CHEM	
Weight	9.20	lb/cf
Vis.	42.00	S/L
W.L.	15.20	in3
F.C.	0.00	in

Mud Drop N

Amt. of fill	0.00	ft
Btm. H. Temp.	122.00	F
Hole Condition	GOOD	
% Porosity	0.00	
Packer Size	0.75	in
No. of Packers	2	
Cushion Amt.	0.00	
Cushion Type		
Reversed Out Y		

BLOW DESCRIPTION

IF- STRONG-BOTTOM OF BUCKET IN 2 MIN

FF-STRONG-BOTTOM OF BUCKET IN 1 MIN

SAMPLES:  
 SENT TO:

Tester DAN BANGLE  
 Co. Rep. JIM MUSGROVE  
 Contr. DUKE  
 Rig # 2  
 Unit #  
 Pump T.

Test Successful: Y

RECEIVED  
 KANSAS CORP CORP  
 1995 AUG -8 P 12:09

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

WELL NAME: VAN SICKLE  
 LOCATION : 23-23-4-RENO-CO-KS  
 TICKET No. 9398 D.S.T. No. 2 DATE 7-23-96  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 14  
 TOTAL TOOL ..... 41  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 D.C. ANCHOR STND.Stands Single Total  
 D.P. ANCHOR STND.Stands Single Total  
 TOTAL ASSEMBLY ..... 41  
 D.C. ABOVE TOOLS.Stands Single Total  
 D.P. ABOVE TOOLS.Stands58 Single 1 Total 3608  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3632  
 TOTAL DEPTH ..... 3619  
 TOTAL DRILL PIPE ABOVE K.B. .... 13  
 REMARKS:

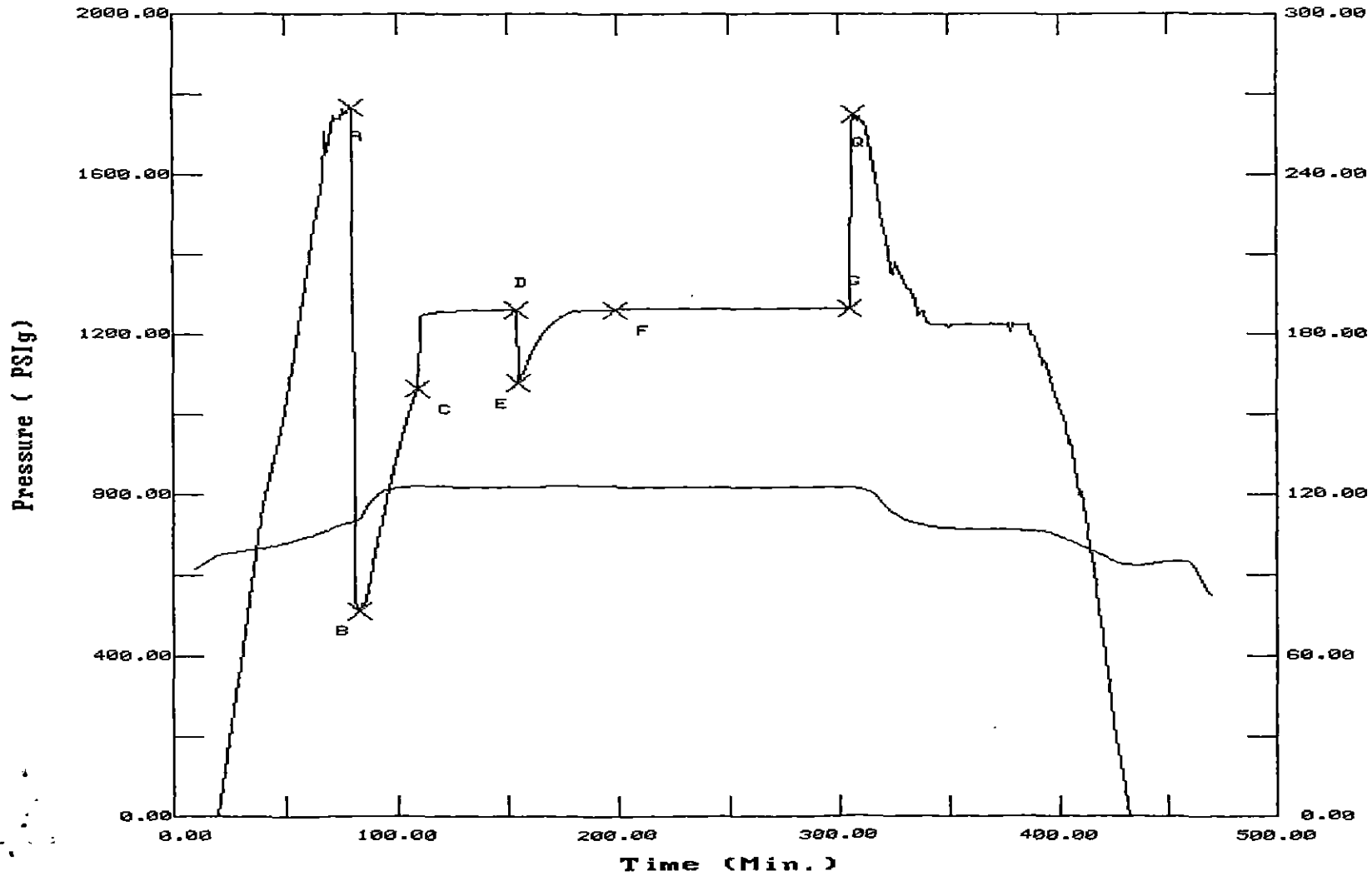
P.O. SUB	3577
C.O. SUB	3577
S.I. TOOL STERLING	3583
ORIGINAL	
HMV STERLING	3588
JARS STERLING	3593
SAFETY JOINT BOWEN	3596
PACKER	3600
PACKER	3605
DEPTH 3605	3605
STUBB 1'	3606
ANCHOR ALPINE RECORDER	3606
T.C. DEPTH	
3' PERFS	3609
5' PERFS	3614
AK-1 RECORDER	3616
BULLNOSE 5' BULLPLUG	3619
T.D.	

# TEST HISTORY

TK #9398 DST #2 VANSICKLE #7 PRODUCERS OIL CO

	t (Min.)	P (PSig)	Flag Points
R:	0.00	1766.17	
B:	0.00	510.86	
C:	26.00	1064.78	
D:	45.00	1261.59	
E:	0.00	1077.79	
F:	44.00	1261.69	
G:	106.00	1263.87	
Q:	0.00	1749.13	

ORIGINAL



Temperature (DEG F)

15-155-21392



# TRILOBITE TESTING L.L.C.

Box 362 • Hays, Kansas 67601

15-155-21392

ORIGINAL

## Test Ticket

No. 9398

Well Name & No. Van Sickle Test No. 2 Date 7-23-96  
 Company Producers Oil Co. Zone Tested Hutton  
 Address \_\_\_\_\_ Elevation 1476 KB 1468 GL  
 Co. Rep / Geo. Jim Musgrove Cont. Duke #2 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 23 Twp. 23 Rge. 4 Co. Reed State KS  
 No. of Copies 3 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) \_\_\_\_\_

Interval Tested 3605-3619 Initial Str Wt./Lbs. 37,000 Unseated Str Wt./Lbs. 50,000  
 Anchor Length 14' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth 3600 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Bottom Packer Depth 3605 Wt. Pipe I.D. — 2.7 Ft. Run \_\_\_\_\_  
 Total Depth 3619 Drill Collar — 2.25 Ft. Run \_\_\_\_\_  
 Mud Wt. 9.2 LCM \_\_\_\_\_ Vis. 42 WL 15.2 Drill Pipe Size 4.5XH Ft. Run 3608  
 Blow Description F.F. Strong - B.O.B. in 2 min.

F.F. Strong - B.O.B. in 1 min.

Recovery — Total Feet	Ft. in DC	Ft. in WP	Ft. in DP
Rec. <u>45</u>	Feet Of <u>50CGsy mdy wtr.</u>	<u>20</u> %gas <u>2</u> %oil <u>88</u> %water <u>10</u> %mud	
Rec. <u>120</u>	Feet Of <u>50CGsy mdy wtr.</u>	<u>10</u> %gas <u>1</u> %oil <u>79</u> %water <u>10</u> %mud	
Rec. <u>300</u>	Feet Of <u>50CGsy mdy wtr.</u>	<u>10</u> %gas <u>1</u> %oil <u>84</u> %water <u>5</u> %mud	
Rec. <u>2395</u>	Feet Of <u>50CGsy wtr.</u>	<u>10</u> %gas <u>1</u> %oil <u>89</u> %water _____ %mud	
Rec. <u>278</u>	Feet Of <u>G.I.P.</u>	_____ %gas _____ %oil _____ %water _____ %mud	

BHT \_\_\_\_\_ °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .14 @ 80 °F Chlorides 48,000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud	<u>1808</u>   <u>1766</u> PSI	Recorder No. <u>2342</u>	T-Started <u>14:10</u>
(B) First Initial Flow Pressure	<u>555</u>   <u>511</u> PSI	@ (depth) <u>3606</u>	T-Open <u>15:30</u>
(C) First Final Flow Pressure	<u>1039</u>   <u>1065</u> PSI	Recorder No. <u>13849</u>	T-Pulled <u>19:15</u>
(D) Initial Shut-in Pressure	<u>1272</u>   <u>1262</u> PSI	@ (depth) <u>3616</u>	T-Out <u>22:00</u>
(E) Second Initial Flow Pressure	<u>1139</u>   <u>1078</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure	<u>1272</u>   <u>1262</u> PSI	@ (depth) _____	
(G) Final Shut-in Pressure	<u>1272</u>   <u>1264</u> PSI	Initial Opening <u>30</u>	Test _____
(H) Final Hydrostatic Mud	<u>1765</u>   <u>1749</u> PSI	Initial Shut-in <u>45</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>90</u>	Straddle _____

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Approved By Jim Musgrove  
 Our Representative Don Banate

Circ. Sub X  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Elect. Rec. X  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ \_\_\_\_\_