

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

RECEIVED
KANSAS CORP COM

API NO. 15- 007-22605 0000

County Barber County, Kansas

SE - NW - SE - Sec. 23 Twp. 31 Rge. 13 ~~XXX~~

Operator: License # 31406 1999 DEC 16 A 10:51

Name: Prairie Resources, Inc.

Address 1016 Amanda Pines Drive

City/State/Zip Parker, CO 80138

Purchaser: Cooperative Refining LLC

Operator Contact Person: Robert W. Packard

Phone (303) 840-3313

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Gordon Keen

Designate Type of Completion
 New Well Re-Entry Workover

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

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

11-03-99 11-10-99 11-10-99
Spud Date Date Reached TD Completion Date

1650 Feet from S (circle one) Line of Section

1650 Feet from E (circle one) Line of Section

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

Lease Name Packard Well # 4-23

Field Name Nurse

Producing Formation Mississippi

Elevation: Ground 1580' KB 1588'

Total Depth 4570' PBSD _____

Amount of Surface Pipe Set and Cemented at 222 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 cnt.

Drilling Fluid Management Plan Att. 1, 12-28-99 UR
(Data must be collected from the Reserve Pit)

Chloride content 6900 ppm Fluid volume 646 bbls

Dewatering method used Settling Pit

Location of fluid disposal if hauled offsite: _____

Operator Name Mac SWD (Bowers)

Lease Name _____ License No. 5435

Quarter _____ Sec. 7 Twp. 32 S Rge. 11 W E/W

County Barber Docket No. CD-78217

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 Robert W. Packard

Title PRESIDENT Date 12-13-99

Subscribed and sworn to before me this 13th day of December 19 99

Notary Public Jane B. Alexander

Date Commission Expires 3-15-02

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"/>		<input type="checkbox"/> KGPA
		<input type="checkbox"/> Other
		(Specify)

SIDE TWO

Operator Name Prairie Resources, Inc.

Lease Name Packard

Well # 4-23

Sec. 23 Twp. 31 Rge. 13

East
 West

County Barber 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 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:
Dual Induction Log
Dual Compensated

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Lansing	3709'	-2121
Swope	4035'	-2447
Hertha	4073'	-2485
Mississippi	4194'	-2606
Viola	4438'	-2850
Simpson Sand	4558'	-2970

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	12-1/4"	8-5/8"	23#	222'	60/40 Poz	165	3%cc 2%gel
Production	7-7/8"	4-1/2"	10.5#	4464'	ASC	150	5# Kolseal/sk

ADDITIONAL CEMENTING/SQUEEZE RECORD

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	4198' - 4208'	2000 gal 10% FE Acid Frac'd w/73,000# sand	

TUBING RECORD	Size 2 3/8" od	Set At 4194'	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
---------------	----------------	--------------	---------------	--

Date of First, Resumed Production, SWD or Inj. <u>11-30-99</u>	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
--	--

Estimated Production Per 24 Hours	Oil 200 Bbls.	Gas 215 Mcf	Water 80 Bbls.	Gas-Oil Ratio 1075	Gravity
-----------------------------------	---------------	-------------	----------------	--------------------	---------

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 4198 - 4208'

ALLIED CEMENTING CO., INC. ORIGINAL

Federal Tax I.D.# 48-0727860

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

SERVICE POINT:
med lodge, ks

DATE <u>11-10-99</u>	SEC. <u>23</u>	TWP. <u>31s</u>	RANGE <u>13w</u>	CALLED OUT <u>9:00 AM.</u>	ON LOCATION <u>12:00 PM.</u>	JOB START <u>4:00 PM.</u>	JOB FINISH <u>5:30 PM.</u>
LEASE <u>Packard</u>		WELL # <u>4-23</u>	LOCATION <u>7 1/2 W on old 160, 1/2 N - E/4</u>		COUNTY <u>Barber</u>	STATE <u>Ks.</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Duke Dnp #2
 TYPE OF JOB Prod. Csg.
 HOLE SIZE 7 7/8 T.D. 4570'
 CASING SIZE 4 1/2 x 10.5 DEPTH 4468
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1000 MINIMUM 100
 MEAS. LINE _____ SHOE JOINT 43.87
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER Prarie Resources
 CEMENT
 AMOUNT ORDERED 25sx. 60/40lb. 500qals
mod clean. 150sx. Asc + 5# Kol-Seal.

EQUIPMENT

PUMP TRUCK # <u>352</u>	CEMENTER <u>Larry Dredling</u>
BULK TRUCK # <u>301</u>	HELPER <u>Shane Winsor</u>
BULK TRUCK # _____	DRIVER <u>Kevin Brunhardt</u>
BULK TRUCK # _____	DRIVER _____

COMMON <u>A</u>	<u>15</u>	@ <u>6.35</u>	<u>95.25</u>
POZMIX	<u>10</u>	@ <u>3.25</u>	<u>32.50</u>
GEL	<u>1</u>	@ <u>9.50</u>	<u>9.50</u>
CHLORIDE		@ _____	_____
<u>Asc</u>	<u>150</u>	@ <u>8.30</u>	<u>1230.00</u>
<u>Kol-Seal</u>	<u>750#</u>	@ <u>.38</u>	<u>285.00</u>
<u>MUD CLEAN</u>	<u>500 Gal</u>	@ <u>.75</u>	<u>375.00</u>
HANDLING	<u>175</u>	@ <u>1.05</u>	<u>183.75</u>
MILEAGE	<u>175 - MINIMUM</u>		<u>100.00</u>

TOTAL # 2311.00

REMARKS:

Pipe on Bottom - Break Circ.
mix + Pump 500qals mud-clean.
Plug Rathole + mousehole. Cement w/
150sx. Asc + 5# Kol-Seal. Release
Plug Pump + Displace Plug w 703434s.
Fresh H₂O. Pump Plug. Release PST
Float Held.

SERVICE

DEPTH OF JOB	<u>4468'</u>		
PUMP TRUCK CHARGE			<u>1080.00</u>
EXTRA FOOTAGE		@ _____	_____
MILEAGE	<u>8</u>	@ <u>2.85</u>	<u>22.80</u>
PLUG Rubber	<u>4 1/2"</u>	@ <u>38.00</u>	<u>38.00</u>

TOTAL # 1140.80

CHARGE TO: Prarie Resources Inc.
 STREET 1016 Amanda Pines Drive
 CITY Parker STATE Co ZIP 80138

FLOAT EQUIPMENT

1-AFO Insert	@ <u>152.00</u>	<u>152.00</u>
1-Reg Guide Shoe	@ <u>90.00</u>	<u>90.00</u>
8-Centralizers	@ <u>23.00</u>	<u>184.00</u>

TOTAL # 426.00

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 # 3877.80
 DISCOUNT 775.58 IF PAID IN 30 DAYS
 Net # [Crossed out]
 X H. A. DePant
 PRINTED NAME

RECEIVED
 KANSAS CORP. COMM
 999 DEC 16 A 10:57



CEMENTING LOG

STAGE NO. ORIGINAL

CEMENT DATA:
 Spacer Type: 200 gals mud / 1000
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 LEAD: Pump Time _____ hrs. Type 100/1000
 Excess _____
 Amt. 25 Sks Yield 1.55 ft³/sk Density 128 PPG
 TAIL: Pump Time _____ hrs. Type 1/1000
 Excess _____
 Amt. 150 Sks Yield 1.57 ft³/sk Density _____ PPG
 WATER: Lead 7.8 gals/sk Tail _____ gals/sk Total _____ Bbls.
 Pump Trucks Used 352 Shane
 Bulk Equip. 301 No. 10

Date 11-18-64 District Med. 11 Ticket No. 2092
 Company PRAPIC Services Rig 2100 #2
 Lease ACTON Well No. 4-23
 County Baker State KS
 Location 7500 N. 11th St Field 2100-13

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 4 1/2 Type _____ Weight _____ Collar _____
 Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2 Weight 14.00 Collars X111
 Open Hole: Size 7 7/8 T.D. 4570 ft. P.B. to _____ ft.
 CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.0154 Lin. ft./Bbl. 64.97
 Open Holes: Bbls/Lin. ft. 0.0129 Lin. ft./Bbl. 77.52
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 0.0400 Lin. ft./Bbl. 25.00
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type Guide Shoe Depth 4464.0
 Float: Type AEI Insert Depth 4434.0
 Centralizers: Quantity 8 Plugs Top 2 other Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type Fresh H₂O Amt. 7030 Bbls. Weight 5.0 PPG
 Mud Type Chemical Weight 9.1 PPG

COMPANY REPRESENTATIVE Archie Durant CEMENTER Larry Dreling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
4:00						Flow in bottom - 1500 gpm.
4:10		200		12	4	mix + pump 200 gals mud / 1000
4:50		50		1 1/2	3	plug mud hole w/ 1/2 sk. 100/1000
		50		3	3	plug Rathole w/ 1/2 sk. 100/1000
4:55				42	6	mix + pump 1000 gals. 1000. 1000
5:10		50		8	4	SEND SEAL
						WASH OUT COMPLETES
5:13		50		10	6	RELEASE PLUG
		50		16	6	STEADY RATE TEST
		50		30	6	mod clean turn shoe
		200		45	5	ASC TURN SHOE
5:20		1000		7030	3	STEADY PST INCREASE
						PUMPING
						RELEASE PST
						PLUG HOLD

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs. THANK YOU

RECEIVED
 KANSAS CORP COMM
 1964 DEC 16 A 10: 51

ORIGINAL

RECEIVED
KANSAS CORP COMM

Well Name: Packard #4-23
Company: Prairie Resources Inc.
Location: 23-31s-13w
Barber county Kansas
Date: 11-16-99

1999 DEC 16 A 10:57

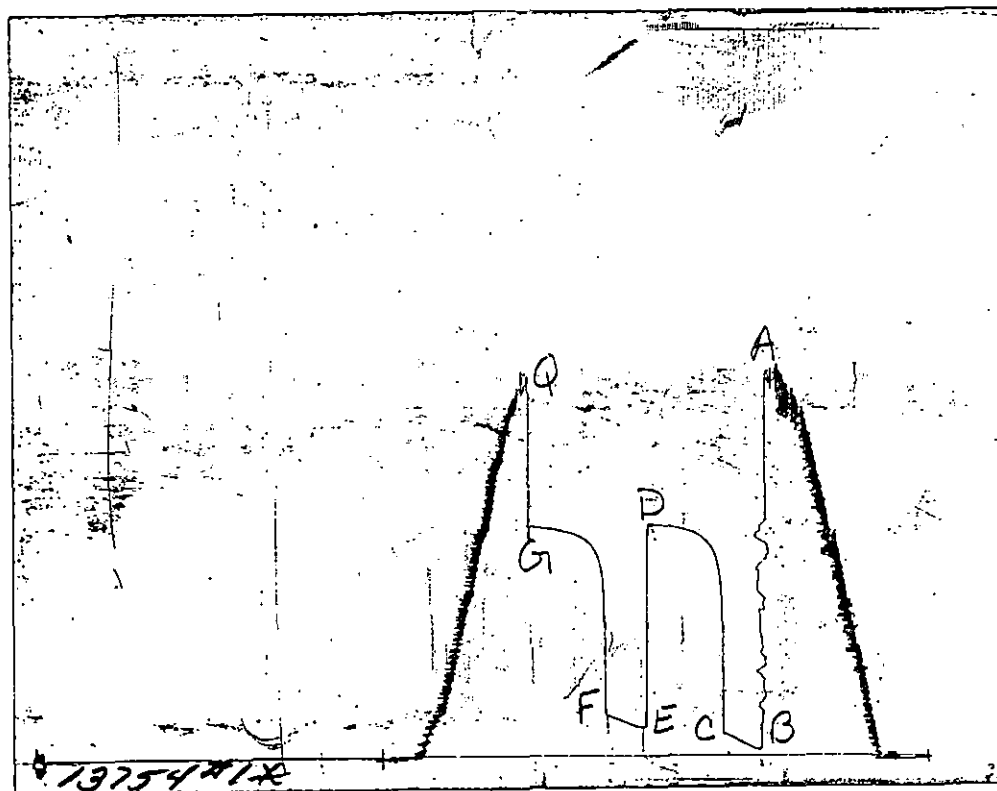
TRILOBITE TESTING L.L.C.

DST REPORT

SWOPE FORMATION

(THIS WAS THE ONLY DST RUN)

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

RECEIVED
KANSAS CORP CO.
1997 DEC 16 A 10:57

Test Ticket

No 11146

Well Name & No. Packard #4-23 Test No. 1 Date 11-8-99
 Company Prairie Res, Inc. Zone Tested Swope
 Address 1016 Amanda Pines Dr. Parker, Colo. 80138 Elevation 1588 KB 1580 GL
 Co. Rep / Geo. Gordon Keen Cont. Duke #2 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 23 Twp. 31 Rge. 13 Co. Barber State Ks
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4030 - 4050 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 43,000
 Anchor Length 20' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth 4025 Tool Weight 1000
 Bottom Packer Depth 4030 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4050 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.5 LCM _____ Vis. 42 WL 19.2 Drill Pipe Size 4.5XH Ft. Run 4023
 Blow Description FF. Strong - B.O.B. in 4 min.
IS - Bled off blow - blow came back and built to 1"
FF. Strong - B.O.B. in 11 min.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>382</u>	<u>546</u>		<u>382</u>
Rec. <u>72</u> Feet Of <u>Gsy Mud</u>		<u>10</u> %gas	%oil %water <u>90</u> %mud
Rec. <u>310</u> Feet Of <u>WTR</u>		%gas	%oil %water %mud
Rec. _____ Feet Of _____		%gas	%oil %water %mud
Rec. _____ Feet Of _____		%gas	%oil %water %mud
Rec. _____ Feet Of _____		%gas	%oil %water %mud

BHT 123 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW 104 @ 80 °F Chlorides 210,000 ppm Recovery Chlorides 3600 ppm System

(A) Initial Hydrostatic Mud 2006 PSI Recorder No. 13754 T-Started 04:00
 (B) First Initial Flow Pressure 39 PSI (depth) 4033 T-Open 05:32
 (C) First Final Flow Pressure 127 PSI Recorder No. 13248 T-Pulled 08:32
 (D) Initial Shut-in Pressure 1196 PSI (depth) 4047 T-Out 10:15
 (E) Second Initial Flow Pressure 147 PSI Recorder No. _____
 (F) Second Final Flow Pressure 216 PSI (depth) _____
 (G) Final Shut-in Pressure 1186 PSI Initial Opening 30 Test 700
 (H) Final Hydrostatic Mud 1936 PSI Initial Shut-in 60 Jars 200
 Final Flow 30 Safety Joint 50
 Final Shut-in 60 Straddle _____
 _____ Circ. Sub _____
 _____ Sampler _____
 _____ Extra Packer _____
 _____ Elect. Rec. _____
 _____ Other _____

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 Gordon W. Keen