

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 # 30063

Name: Weststar Resources, Inc.

Address 1115 Westport SW 'D'

City/State/Zip Manhattan, KS 66502

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

Operator Contact Person: Ken Vehige

Phone (913) -625-5891

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Ken Vehige

Designate Type of Completion

New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover

\_\_\_\_\_ Oil \_\_\_\_\_ SWD \_\_\_\_\_ Temp. Abd.

\_\_\_\_\_ Gas \_\_\_\_\_ Inj \_\_\_\_\_ Delayed Comp.

Dry \_\_\_\_\_ Other (Core, Water Supply, etc.)

If OMO: old well info as follows:

Operator: \_\_\_\_\_

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

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

Drilling Method:

Mud Rotary \_\_\_\_\_ Air Rotary \_\_\_\_\_ Cable

7/21/89 7/29/89 7/29/89 (dry)  
Spud Date Date Reached TD Completion Date

API NO. 15- 135-23,368-000

County Ness

NW NW SW \_\_\_\_\_ Sec. 2 Twp. 16S Rge. 26 \_\_\_\_\_ East  
\_\_\_\_\_ West

2310 \_\_\_\_\_ Ft. North from Southeast Corner of Section

4950 \_\_\_\_\_ Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

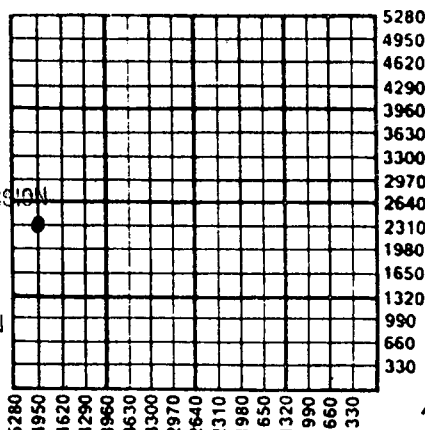
Lease Name Williamson Well # 1

Field Name \_\_\_\_\_

Producing Formation None

Elevation: Ground 2593' KB 2598'

Total Depth 4558' PBDT \_\_\_\_\_



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Wichita, Kansas

*ALD UFA*

Amount of Surface Pipe Set and Cemented at 253 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 [Signature]  
Title Geologist Date 8/16/89

Subscribed and sworn to before me this 16th day of August,  
19 89.

Notary Public Jolene H. Klaus  
Jolene H. Klaus

Date Commission Expires 2/5/90

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)  
DD # 1



X

**SIDE TWO**

Operator Name Weststar Resources, Inc. Lease Name williamson Well # 1  
 Sec. 2 Twp. 15S Rge. 26  East County Ness  
 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  Yes  No  
 (Attach Additional Sheets.)  
 Test Sheets Attached  Yes  No  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)

Formation Description		
Name	Top	Bottom
Anhydrite	2226'	2066'
Lansing-K.C.	3910'	4211'
Pawnee	4313'	4412'
Fort Scott	4412'	4466'
Mississippi	4500'	N/A

**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	N/A	250	Poz.Mix	150	2% Gel, 3%CC

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

**TUBING RECORD** Size Set At Packer At Liner Run  Yes  No

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 \_\_\_\_\_

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

No. 6647

Home Office P. O. Box 31

Russell, Kansas 67665

*New*

Date	7-21-89	Sec.	2	Twp.	16	Range	26	Called Out	5:00 PM	On Location	5:30 PM	Job Start	8:15 PM	Finish	8:45 PM	
Lease	Williamson	Well No. #	1	Location				Utica Waide, 3N Evide.	County	Ness	State	Ks				
Contractor	Emphasis Oil Operations											Owner	Weststar			
Type Job	Surface Casing											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 listed.				
Hole Size	12 1/4	T.D. 255'														
Csg.	8 5/8 20#	Depth 253'														
Tbg. Size		Depth														
Drill Pipe		Depth														
Tool		Depth														
Cement Left in Csg.	15'	Shoe Joint														
Press Max.		Minimum														
Meas Line	no	Displace 15.5														
Perf.																

Charge To *Emphasis Oil Operations*  
~~Weststar Resources Weststar~~  
 Street ~~Box 506 Resources~~  
 City ~~Russell~~ State ~~Ks 67665~~  
 The above was done to satisfaction and supervision of owner agent or contractor

Purchase Order No. *10m Alin*

**CEMENT**

Amount Ordered	150 60/40 2% gel 3% cc		
Consisting of			
Common	90	5.00	450.00
Poz. Mix	60	2.25	135.00
Gal.	3	6.75	20.25
Chloride	5	20.00	100.00
Quickset			

**EQUIPMENT**

No.	Cementer	
Pumptrk 158	Helper	
No.	Cementer	<i>LAYSON</i>
Pumptrk	Helper	<i>DUANE</i>
	Driver	<i>MICK</i>
Bulktrk 199		
Bulktrk	Driver	

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**DEPTH of Job**

Reference:	<i>Pump trk charge</i>	<i>360.00</i>
	<i>Mileage</i>	<i>30.00</i>
	<i>1 8 5/8 TWP</i>	<i>40.00</i>
	Sub Total	
	Tax	
	Total	<i>430.00</i>

Handling	150	.90	135.00
Mileage	30		135.00
		Sub Total	
		Total	<i>975.25</i>

Remarks: *Cement did circulate.  
6 bbl cement*

Floating Equipment

Total #	<i>1405.25</i>
Less Disc -	<i>281.05</i>
	<i>\$ 1124.20</i>

*Thank you.*

## 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 willful 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.

Phone 913-483-2627, Russell, Kansas  
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812  
 Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

No. 6678

Home Office P. O. Box 31

Russell, Kansas 67665

*New*

Date	7-29-89	Sec.	2	Twp.	14	Range	26	Called Out	9:00 AM	On Location	11:00 AM	Job Start	1:30 PM	Finish	4:00 PM
Lease	Williamson	Well No.	1	Location	Utica 3 1/2 N E side			County	Ness	State	Kansas				

Contractor	Empress Oil Operations	
Type Job	Rotary Plug	
Hole Size	7 1/8	T.D. 4558'
Csg.		Depth
Tbg. Size		Depth
Drill Pipe	4 1/2 XH	Depth 2075'
Tool		Depth
Cement Left in Csg.		Shoe Joint
Press Max.		Minimum
Meas Line		Displace
Perf.		

Owner	Weststar
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 listed.	
Charge To	Weststar Resources
Street	1115 Westport Suite "D"
City	Manhattan State Ks. 66502
The above was done to satisfaction and supervision of owner agent or contractor	
Purchase Order No.	
X	Thomas Alm

### EQUIPMENT

<i>Ness</i>		
No.	Cementer	
Pumptrk #158	Helper	
No.	Cementer	JAYSON
Pumptrk	Helper	DUANE
	Driver	MICK
Bulktrk #69	Driver	Steve J.
Bulktrk	Driver	

<b>CEMENT</b>		
Amount Ordered	205 sk 60/40 6% gel	
Consisting of		
Common	123	5.00 615.00
Poz. Mix	82	2.25 184.50
Gel.	12	6.75 81.00
Chloride		
Quickset		

<b>DEPTH of Job</b>	
Reference:	
	Pump-trk charge 450.00
	Mileage 30.00
	1 8 5/8 wooden plug 20.00
	Sub Total
	Tax
	Total 500.00

Handling	205	.90	184.50
Mileage	30		184.50
		Sub Total	
		Total	1249.50

Remarks:	
	2075' - 50 sk
	1100' - 80 sk
	280' - 40 sk
	40' - 10 sk
	10 sk Mousehole, 15 sk Pathole

Floating Equipment	
TOTAL \$	1749.50
Less Disc -	349.90
Net 30 DAYS	#1399.60

Thanks.

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(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.

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(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.

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

N<sup>o</sup> 1858

Well Name & No. <u>Williamson #1</u>	Test No. <u>#1</u>	Date <u>7-27-89</u>
Company <u>Weststar Resources</u>	Zone Tested _____	
Address <u>1115 Westport SW, D Manhattan</u>	Elevation <u>2310</u>	
Co. Rep./Geo. <u>Ken Vehige</u>	cont. <u>Emphasis #7</u>	Est. Ft. of Pay _____
Location: Sec. <u>02</u>	Twp. <u>16</u>	Rge. <u>26</u> co. <u>NESS</u> State <u>KS</u>

Interval Tested <u>4389 - 4456</u> <u>4395 - 4462</u>	Drill Pipe Size <u>4 1/2 x H</u>
Anchor Length <u>67</u>	Top Choke - 1" _____
Top Packer Depth <u>4390</u>	Bottom Choke - 3/4" _____
Bottom Packer Depth <u>4395</u>	Hole Size - 7 7/8" _____
Total Depth <u>4462</u>	Rubber Size - 6 3/4" _____
Wt. Pipe I.D. - 2.7 _____	Ft. Run _____
Drill Collar - 2.25 _____	Ft. Run _____
Mud Wt. <u>9.3</u> lb./gal.	Viscosity <u>44</u> Filtrate <u>1.5</u>
Tool Open @ <u>5:03 pm</u>	Initial Blow <u>very weak surface blow died in 20min.</u>
Final Blow <u>no blow - flush tool come out.</u>	

Recovery - Total Feet <u>15</u>	Flush Tool? <u>yes</u>
Rec. _____ Feet of _____	
Rec. <u>15</u> Feet of <u>Drly mud with few specks of oil</u>	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	
Rec. _____ Feet of _____	

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BHT <u>112°</u> °F Gravity <u>8</u>	°API @ _____ °F Corrected Gravity _____ °API
RW <u>1.8</u> @ <u>70</u> °F Chlorides <u>3400</u> ppm Recovery Chlorides <u>3000</u> ppm System	
(A) Initial Hydrostatic Mud <u>2254</u> PSI	AK1 Recorder No. <u>13223</u> Range <u>4150</u>
(B) First Initial Flow Pressure <u>41</u> PSI	@ (depth) <u>4439</u> w/Clock No. <u>20272</u>
(C) First Final Flow Pressure <u>41</u> PSI	AK1 Recorder No. <u>21946</u> Range <u>3925</u>
(D) Initial Shut-In Pressure <u>62</u> PSI	@ (depth) <u>4459</u> w/Clock No. <u>8376</u>
(E) Second Initial Flow Pressure _____ PSI	Initial Opening <u>30</u> Test <u>400.00</u>
(F) Second Final Flow Pressure _____ PSI	Initial Shut-In <u>30</u> Jars _____
(G) Final Shut-In Pressure _____ PSI	Final Flow _____ Safety Joint _____
(H) Final Hydrostatic Mud <u>2181</u> PSI	Final Shut-In _____ Straddle _____

Approved By _____	Circ. Sub _____
Our Representative <u>Tom Horacek</u>	Sampler _____
	Extra Packer _____
	Other _____

TOTAL PRICE \$ 400.00

# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

No 1859

Well Name & No.	Williamsom #1	Test No	#2	Date	7-28-89
Company	Weststar Resources	Zone Tested			
Address	115 Westport SW, D Manhattan	Elevation	2378	KB	
Co. Rep./Geo.	Ken Vehige	cont.	Emphasis #7	Est. Ft. of Pay	2
Location: Sec.	02	Twp.	16	Rge.	26
		Co.	NESS	State	KS

Interval Tested	<del>4492</del> <sup>4486</sup> <del>4532</del> <sup>4526</sup>	Drill Pipe Size	4 1/2 x H
Anchor Length	40	Top Choke - 1"	
Top Packer Depth	4487	Bottom Choke - 3/4"	
Bottom Packer Depth	4492	Hole Size - 7 7/8"	
Total Depth	4532	Rubber Size - 6 3/4"	

Wt. Pipe I.D. - 2.7		Ft. Run	
Drill Collar - 2.25		Ft. Run	30'
Mud Wt.	9.3 lb./gal.	Viscosity	44
		Filtrate	1.5

Tool Open @ 8:00 Am Initial Blow 1/4 in blow built to line  
ISI - no blow

Final Blow no blow - flush tool no blow - come out,

Recovery - Total Feet 20 Flush Tool? yes

Rec.		Feet of	
Rec.	20	Feet of	mud w/ trace of oil
Rec.		Feet of	
Rec.		Feet of	
Rec.		Feet of	

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AUG 17 1989

BHT 113° °F Gravity °API @ Corrected Gravity °API

RW T-8 @ 70° °F Chlorides 3400 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud	2316	PSI	AK1 Recorder No.	13223	Range	4150
(B) First Initial Flow Pressure	41	PSI	@ (depth)	4499	w/Clock No.	20272
(C) First Final Flow Pressure	41	PSI	AK1 Recorder No.	21946	Range	3925
(D) Initial Shut-In Pressure	1132	PSI	@ (depth)	4529	w/Clock No.	8376
(E) Second Initial Flow Pressure	41	PSI	Initial Opening	45	Test	400.00
(F) Second Final Flow Pressure	f	PSI	Initial Shut-In	45	Jars	
(G) Final Shut-In Pressure	f	PSI	Final Flow	10	Safety joint	
(H) Final Hydrostatic Mud	2264	PSI	Final Shut-In	f	Straddle	

Approved By \_\_\_\_\_ Sampler \_\_\_\_\_

Our Representative Tom Horacek \_\_\_\_\_ Extra Packer \_\_\_\_\_ Other \_\_\_\_\_



# TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

## TEST TICKET

No 1860

Well Name & No.	Williamson #1	Test No.	#3	Date	7-28-89				
Company	Weststar Resources	Zone Tested	Miss						
Address	1115 Westport SW. D Manhattan	Zip	66502	Elevation	2598 KR				
Co. Rep./Geo.	Ken Vehige	Cont.	Emphasis #7	Est. Ft. of Pay	5				
Location: Sec.	02	Twp.	16	Rge.	26	Co.	NESS	State	KS

Interval Tested	<del>4486</del> 4492 - <del>4533</del> 4539	Drill Pipe Size	4 1/2 x 14		
Anchor Length	47	Top Choke - 1"			
Top Packer Depth	4487	Bottom Choke - 3/4"			
Bottom Packer Depth	4492	Hole Size - 7 7/8"			
Total Depth	4539	Rubber Size - 6 3/4"			
Wt. Pipe I.D. - 2.7		Ft. Run			
Drill Collar - 2.25		Ft. Run	30'		
Mud Wt.	9.4 lb./gal.	Viscosity	45	Filtrate	8-4
Tool Open @	7:40 pm	Initial Blow	very weak surface blow built to 1" @ 45 min.		
	ISI - no blow				
Final Blow	no blow / t/c/H				

Recovery - Total Feet	45	Flush Tool?	no
Rec.		Feet of	
Rec.	45	Feet of	Dry mud STATE OF KANSAS DIVISION OF COMMISSION 2% oil 98% mud
Rec.		Feet of	
Rec.		Feet of	
Rec.		Feet of	

RECEIVED  
AUG 17 1989

BHT	113	°F Gravity		°API @		°F Corrected Gravity		°API	
RW	1.8	@	70	°F Chlorides	3400	ppm Recovery	Chlorides	3000	ppm System
(A) Initial Hydrostatic Mud	2316	PSI	AK1 Recorder No.	13223	Range	4150			
(B) First Initial Flow Pressure	41	PSI	@(depth)	4496	w/Clock No.	20272			
(C) First Final Flow Pressure	41	PSI	AK1 Recorder No.	21946	Range	3925			
(D) Initial Shut-In Pressure	1143	PSI	@(depth)	4536	w/Clock No.	8376			
(E) Second Initial Flow Pressure	41	PSI	Initial Opening	45	Test	400.00			
(F) Second Final Flow Pressure	f	PSI	Initial Shut-In	30	Jars				
(G) Final Shut-In Pressure		PSI	Final Flow	5	Safety joint				
(H) Final Hydrostatic Mud	2254	PSI	Final Shut-In	f	Straddle				

Approved By	<i>[Signature]</i>	Circ. Sub	
Our Representative	Tom Horacek	Sampler	
		Extra Packer	
		Other	
		TOTAL PRICE \$	400.00