

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

**ORIGINAL**

1-30-09

Form ACO-1  
September 1999  
Form Must Be Typed

Operator: License # 4767  
Name: Ritchie Exploration, Inc.  
Address: P.O. Box 783188  
City/State/Zip: Wichita, KS 67278-3188  
Purchaser: Sem-Crude  
Operator Contact Person: John Niernberger  
Phone: (316) 691-9500  
Contractor: Name: Val Energy, Inc.  
License: 5822  
Wellsite Geologist: Mike Engelbrecht

**KCC**

**JAN 30 2007**

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Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SIOW     Temp. Abd.  
 Gas     ENHR     SIGW  
 Dry     Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to Enhr./SWD  
 Plug Back     Plug Back Total Depth  
 Commingled    Docket No. \_\_\_\_\_  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_

11/9/06	11/28/06	11/28/06
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 057-20578-0000  
County: Ford  
approx. N/2 NW NW Sec. 20 Twp. 27S S. R. 23  East  West  
94 feet from S / N (circle one) Line of Section  
675 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Carson 20B Well #: 2

Field Name: \_\_\_\_\_  
Producing Formation: Pawnee  
Elevation: Ground: 2428 Kelly Bushing: 2438  
Total Depth: 5070 Plug Back Total Depth: 5034  
Amount of Surface Pipe Set and Cemented at 439 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 1418 Feet  
If Alternate II completion, cement circulated from 1418  
feet depth to surface w/ 475 sx cmt.

Drilling Fluid Management Plan API II NH 9-15-08  
(Data must be collected from the Reserve Pit)  
Chloride content 6800 ppm Fluid volume 1800 bbls  
Dewatering method used evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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: \_\_\_\_\_  
Title: Production Manager Date: 1/24/07  
Subscribed and sworn to before me this 24<sup>th</sup> day of January,  
20 07.  
Notary Public: Debra K Phillips  
Date Commission Expires: 5/4/07

**DEBRA K. PHILLIPS**  
Notary Public - State of Kansas  
My Appt. Expires 5/4/07

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**RECEIVED**  
**JAN 30 2007**  
**KCC WICHITA**

Operator Name: Ritchie Exploration, Inc. Lease Name: Carson 20B Well #: 2  
 Sec. 20 Twp. 27S S. R. 23  East  West County: Ford

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  Radiation Guard Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  Name Top Datum  <p style="text-align: center; font-weight: bold; font-size: 1.2em;">SEE ATTACHED</p> <p style="text-align: center; font-weight: bold; font-size: 1.5em;">KCC</p> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">JAN 30 2007</p> <p style="text-align: center; font-weight: bold; font-size: 1.5em;">CONFIDENTIAL</p>
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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	32	20	64	40	TEN-SX Grout	6 yards	
Surface	12-1/4	8-5/8	23	439	common	325	3%cc, 2% gel
Production	7-7/8	4-1/2	10.5	5056	60/40 Pozmix	300	10%salt, 2%gel & 3/4% CD-31

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
4	4757.5' - 4765.5'	1500 gals 15% NE	

TUBING RECORD		Size <u>2-3/8</u>	Set At <u>5017</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>12/12/06</u>			Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls. <u>73.96</u>	Gas Mcf	Water Bbls. <u>2.51</u>	Gas-Oil Ratio	Gravity <u>38.8</u>

Disposition of Gas  Vented  Sold  Used on Lease *(If vented, Submit ACO-18.)*

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

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

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KCC WICHITA



**#2 Carson 20B**

94' FNL & 675' FWL

236' N & 15' E of N/2 NW NW Section 20-27S-23W

Ford County, Kansas

API# 15-057-20578-0000

Elevation: 2428' GL, 2438' KB

<u>Sample Tops</u>			<u>Ref.</u>	<u>Well</u>
Chase Herrington	2548'	-110	+1	
Stotler	3445'	-1007	-4	
Heebner Shale	4102'	-1664	-7	
Lansing	4228'	-1790	-6	
Stark Shale	4547'	-2109	-8	
Pawnee	4751'	-2313	-4	
Cherokee Shale	4795'	-2357	-6	
Atoka Shale	4884'	-2446	-1	
Morrow Sand	4908'	-2470	-19	
Miss. St. Louis	4924'	-2486	-11	
RTD	5070'	-2632		

**KCC**  
JAN 30 2007  
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P.O. Box 783188  
Wichita, Kansas 67278-3188

(316) 691-9500  
Fax (316) 691-9550  
[rei@ritchie-exp.com](mailto:rei@ritchie-exp.com)

8100 E. 22<sup>nd</sup> St. N., Bldg. 100  
Wichita, Kansas 67226-2328

**RECEIVED**  
JAN 30 2007  
**KCC WICHITA**

# ALLIED CEMENTING CO., INC.

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

SERVICE POINT:

26153

*MEDICINE LODGE*

11-30-06

DATE <u>12/1/06</u>	SEC <u>20</u>	TWP <u>22</u>	RANGE <u>23w</u>	CALLED OUT <u>1:00PUL</u>	ON LOCATION <u>12:00 PUL</u>	JOB START <u>2:30 PUL</u>	JOB FINISH <u>3:30 PUL</u>
LEASE <u>CARSON</u>	WELL # <u>20B-2</u>	LOCATION <u>WILROADS, 23/4 EAST</u>			COUNTY <u>FORD</u>	STATE <u>KANSAS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>SOUTH INTO</u>					

CONTRACTOR PLAINS WELL SVC OWNER RETCHIE EXPLORATION

TYPE OF JOB PORT COLLAR

HOLE SIZE 7 7/8" T.D.

CASING SIZE 4 1/2" DEPTH

TUBING SIZE 2 3/8" DEPTH

DRILL PIPE DEPTH

TOOL PORT COLLAR DEPTH 1418'

PRES. MAX 400# MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 5 BBLs WATER

EQUIPMENT

CEMENT AMOUNT ORDERED

475sq 60:40:6 + 1/4# FLO-SEAL

COMMON <u>A</u>	<u>285</u>	@	<u>10.65</u>	<u>3035.25</u>
POZMIX	<u>190</u>	@	<u>5.80</u>	<u>1102.00</u>
GEL	<u>25</u>	@	<u>16.65</u>	<u>416.25</u>
CHLORIDE		@		
ASC		@		
<u>FLO-SEAL 119 #</u>		@	<u>2.00</u>	<u>238.00</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>505</u>	@	<u>1.90</u>	<u>959.50</u>
MILEAGE	<u>54 x 505 x .09</u>			<u>2454.30</u>
TOTAL				<u>8205.30</u>

KCC

JAN 30 2007

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PUMP TRUCK CEMENTER KEVIN B

# 312 HELPER DARIN F.

BULK TRUCK DRIVER ROBERT H

# 356-241

BULK TRUCK DRIVER

REMARKS:

PRESSURE CASING TO 1200# + HOLDS  
OPEN TOOL + ESTABLISH CIRC.  
MIX 225sq 60:40:6 + 1/4# FIS  
+ LOST RETURNS - FINISH CEMENT  
+ DISPLACE WITH 5 BBLs WATER  
CLOSE TOOL + PRESSURE CSG.  
REVERSE OUT WITH 15 BBLs

SERVICE

DEPTH OF JOB	<u>1418'</u>		
PUMP TRUCK CHARGE			<u>955.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>54</u>	@	<u>6.00</u>
MANIFOLD		@	
		@	
		@	
TOTAL <u>1279.00</u>			

CHARGE TO: RETCHIE EXPLORATION

STREET \_\_\_\_\_

CITY WICHITA STATE KANSAS ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

ANY APPLICABLE TAX WILL BE CHARGED UPON INVOICING 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.

TAX \_\_\_\_\_

TOTAL CHARGE [scribble]

DISCOUNT [scribble] IF PAID IN 30 DAYS

SIGNATURE X Gay Rowe

PRINTED NAME

-JCN

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 JAN 30 2007  
 KCC WICHITA

# ALLIED CEMENTING CO., INC. 24992

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

SERVICE POINT:  
*Medicine Lodge*

DATE <i>1/28/06</i>	SEC <i>20</i>	TWP <i>27S</i>	RANGE <i>23W</i>	CALLED OUT <i>1:15 PM</i>	ON LOCATION <i>3:30 PM</i>	JOB START <i>8:00 PM</i>	JOB FINISH <i>8:44 PM</i>
LEASE <i>Carson</i>	WELL # <i>20 0" 2</i>	LOCATION <i>Will Roads KS.</i>	COUNTY <i>Ford</i>	STATE <i>KS.</i>			
OLD OR NEW (Circle one)		<i>2 3/4 east 3/5</i>					

CONTRACTOR *Val #2* OWNER *Ritchie Exploration*

TYPE OF JOB *production*  
 HOLE SIZE *7 1/8* T.D. *5050'*  
 CASING SIZE *4 1/2 x 10.5* DEPTH *5067'*  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL *float collar* DEPTH *1426'*

PRES. MAX *1400* MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT *20'*  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_

DISPLACEMENT *80 1/4 Bbls Freshwater*  
 EQUIPMENT

PUMP TRUCK CEMENTER *Carl Balding*  
 # *360-265* HELPER *Dubynz West*  
 BULK TRUCK  
 # *421-251* DRIVER *Greg Grievz*  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

CEMENT AMOUNT ORDERED  
*325 sk 60:40:2 + 10% salt + .75% CD-31 + Defoamer*

COMMON A	<i>195 sk</i>	@ <i>10.65</i>	<i>2076.75</i>
POZMIX	<i>130 sk</i>	@ <i>5.80</i>	<i>754.00</i>
GEL	<i>6 sk</i>	@ <i>16.65</i>	<i>99.90</i>
CHLORIDE		@	
ASC		@	
<i>salt</i>	<i>35 sk</i>	@ <i>9.60</i>	<i>336.00</i>
<i>CD-31</i>	<i>210 #</i>	@ <i>7.50</i>	<i>1575.00</i>
<i>Defoamer</i>	<i>46 #</i>	@ <i>7.20</i>	<i>331.20</i>
<i>Mud-clean</i>	<i>500 Gals</i>	@ <i>1.00</i>	<i>500.00</i>
		@	
		@	
		@	
HANDLING	<i>369</i>	@ <i>1.90</i>	<i>701.10</i>
MILEAGE	<i>54 x 369</i>	@ <i>7.09</i>	<i>1793.34</i>
TOTAL			<i>8167.29</i>

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REMARKS:

*Run 5067' 4 1/2" CSG Drop ball + circulate on bottom for 1 hour  
 Pump 500 Gal mud-clean plug  
 RTW w/ 25 sk 60:40:2 mix  
 Pump 500 sk 60:40:2 + additives  
 wash pump + lines + Release  
 plug. Displace with 80 1/4 Bbls  
 freshwater. Pump plug + float HCL.*

CHARGE TO: *Ritchie Exploration*  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB *5067'*  
 PUMP TRUCK CHARGE *1840.00*  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE *54* @ *6.00* *324.00*  
 MANIFOLD @ \_\_\_\_\_  
*Head portac* @ *100.00* *100.00*  
 @ \_\_\_\_\_  
 TOTAL *2264.00*

*4 1/2"* PLUG & FLOAT EQUIPMENT

<i>1- Guide shoe</i>	@ <i>125.00</i>	<i>125.00</i>
<i>1- AFV Insert</i>	@ <i>215.00</i>	<i>215.00</i>
<i>1- float collar</i>	@ <i>1600.00</i>	<i>1600.00</i>
<i>3- Baskets</i>	@ <i>130.00</i>	<i>390.00</i>
<i>7- Turbolizers</i>	@ <i>55.00</i>	<i>385.00</i>
<i>1- TRP</i>		<i>55.00</i>
TOTAL		<i>2770.00</i>

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.

ANY APPLICABLE TAX WILL BE CHARGED UPON INVOICING

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

SIGNATURE *Guy Rowe*

PRINTED NAME *JW*

**RECEIVED**  
**JAN 30 2007**  
**KCC WICHITA**

# ALLIED CEMENTING CO., INC.

Federal

26533

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

SERVICE POINT:

Great Bend

DATE <u>11-18-06</u>	SEC <u>20</u>	TWP <u>25S</u>	RANGE <u>23 W</u>	CALLED OUT <u>10:00PM</u>	ON LOCATION <u>11:00PM</u>	JOB START <u>5:30AM</u>	JOB FINISH <u>6:30AM</u>
LEASE <u>Carson 20' B'</u>	WELL # <u>2</u>	LOCATION <u>Food, Ks West to Wilcocks Sign</u>			COUNTY <u>Food</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)				<u>1S, to elevator, 2 3/4 E, S/ Into</u>			

CONTRACTOR Val Energy #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 439'

CASING SIZE 8 3/8 24# DEPTH 436'

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

DRILL PIPE 4 1/2 DEPTH 439'

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

PRES. MAX 200# MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 15'

CEMENT LEFT IN CSG. 15'

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

DISPLACEMENT 26 3/4 BBLs of fresh water

EQUIPMENT \_\_\_\_\_

OWNER Ritchie Exploration

CEMENT AMOUNT ORDERED 325 sx Common

3% CC, 2% Gel

COMMON	<u>325 sx</u>	@	<u>10.65</u>	<u>3461.25</u>
POZMIX		@		
GEL	<u>6.04</u>	@	<u>16.65</u>	<u>99.90</u>
CHLORIDE	<u>10 gal</u>	@	<u>46.60</u>	<u>466.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>341.10</u>	@	<u>1.90</u>	<u>647.90</u>
MILEAGE	<u>54.41</u>	@	<u>31</u>	<u>1657.26</u>
TOTAL				<u>6332.31</u>

PUMP TRUCK CEMENTER Rick H.

# 181 HELPER Dave W.

BULK TRUCK DRIVER Steve T.

# 357

BULK TRUCK DRIVER \_\_\_\_\_

REMARKS:

pipe on bottom. Broke circulation  
mixed 325 sx Common 3% CC, 2% Gel  
Shut down Released plug  
Displace with 26 3/4 BBLs of  
Fresh Water  
Cement Did Circulate

CHARGE TO: Ritchie Exploration

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB 436'

PUMP TRUCK CHARGE 815.00

EXTRA FOOTAGE 136' @ 65 88.40

MILEAGE 54 @ 6.00 324.00

MANIFOLD Head Rent @ 100.00 100.00

TOTAL 1387.40

PLUG & FLOAT EQUIPMENT

8 3/8 Rubber  
wooden plug @ 100.00 100.00

TOTAL 100.00

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TAX \_\_\_\_\_

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

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

SIGNATURE X Ron Moon

X Ron Moon  
 PRINTED NAME

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**RECEIVED**  
**JAN 30 2007**  
**KCC WICHITA**

1-30-09



January 24, 2007

**KCC**  
JAN 30 2007  
**CONFIDENTIAL**

State Corporation Commission  
Conservation Division  
130 S. Market, Room 2078  
Wichita, KS 67202

RE: #2 Carson 20B  
Sec. 20-27S-23W  
Ford County, Kansas

To Whom It May Concern:

Enclosed please find an ACO-1 for the above referenced well. The required attachments have also been enclosed. Ritchie Exploration, Inc. would like for this to be held confidential for the maximum allowable time.

If you have any questions, please feel free to call the undersigned or John Niernberger at 316-691-9500. Thank you for all of your help in this matter.

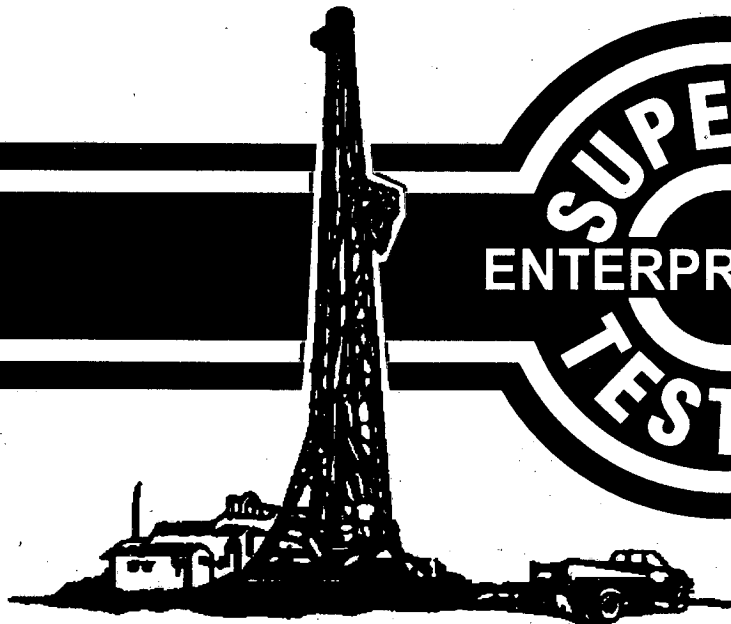
Sincerely,

Debbie Phillips  
Accounting Supervisor

dkp

Enclosures

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JAN 30 2007  
**KCC WICHITA**



KCC  
JAN 3 0 2007  
CONFIDENTIAL

# *Formation Testing Service Report*

RECEIVED  
JAN 3 0 2007  
KCC WICHITA



# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 11-27-06 Location 20-275-23L Elevation 2427 County FORD  
 Number of Copies 5

Company RITCHEE EXPLORATION INC  
 Charts Mailed to PO 783188 Wichita KS 67278-3188

Drilling Contractor VAL ENERGY RIG #2 Tool Joint Size 4 1/2 XH  
 Length Drill Pipe 4915 I.D. Drill Pipe 3.8 Tool Joint Size \_\_\_\_\_

Length Weight Pipe \_\_\_\_\_ I.D. Weight Pipe \_\_\_\_\_ Tool Joint Size \_\_\_\_\_  
 Length Drill Collars \_\_\_\_\_ I.D. Drill Collars \_\_\_\_\_ Tool Joint Size \_\_\_\_\_

Top Packer Depth 4931 Bottom Packer Depth 4936 Number of Packers 2 Packer Size 6 3/4  
 TESTED FROM 4936 TO 4974 ANCHOR LENGTH 38 TOTAL DEPTH 4974 Hole Size 7 7/8

LEASE & WELL NO. CARSON 20B #2 FORMATION TESTED MISSISSIPPI TEST NO. 3  
 Mud Weight 9.1 Viscosity 63 Water Loss 12.4 Chlorides - Pits 10500 D.S.T. 48000

Maximum Temp. 124 °F Initial Hydrostatic Pressure (A) 2461 P.S.I. Final Hydrostatic Pressure (H) 2293 P.S.I.

Tool Open I.F.P. from 7:00 m to 7:30 m 30 min  
 Tool Closed I.C.I.P. from 7:30 m to 8:30 m 60 min

Tool Open F.F.P. from 8:30 m to 9:30 m 60 min  
 Tool Closed F.C.I.P. from 9:30 m to 10:30 m 60 min

from [B] <u>127</u> P.S.I. to [C] <u>138</u> P.S.I.
[D] <u>1545</u> P.S.I.
from [E] <u>150</u> P.S.I. to [F] <u>164</u> P.S.I.
[G] <u>1489</u> P.S.I.

Initial Blow Weak Building Blow built to 8 inches in 30 minutes  
 Final Blow Weak Building Blow built to 10 inches in 60 minutes

Total Feet Recovered 240 ft of Gas + 180 ft of fluid + mud Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

60 Feet of SLIGHT OIL CUT MUD % Gas 5 % Oil 95 % Mud \_\_\_\_\_ % Water \_\_\_\_\_  
60 Feet of MUDDY WATER % Gas 0 % Oil 45 % Mud 55 % Water \_\_\_\_\_

100 Feet of MUDDY WATER % Gas \_\_\_\_\_ % Oil 20 % Mud 80 % Water \_\_\_\_\_  
240 Feet of GAS IN PIPE % Gas 100 % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_  
 \_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_  
 \_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Remarks \_\_\_\_\_

Extra Equipment - Jars NO Safety Joint NO Extra Packer NO Straddle NO Hook Wall NO  
 Top Recorder No. 4005 Clock No. Electronic Depth 4970 Cir. Sub \_\_\_\_\_ Sampler NO

Bottom Recorder No. 3875 Clock No. 7441 Depth 4971 Insurance \_\_\_\_\_

Price of Job \_\_\_\_\_  
 Tool Operator Frank Zamarrino

Approved By \_\_\_\_\_  
 No. 14670

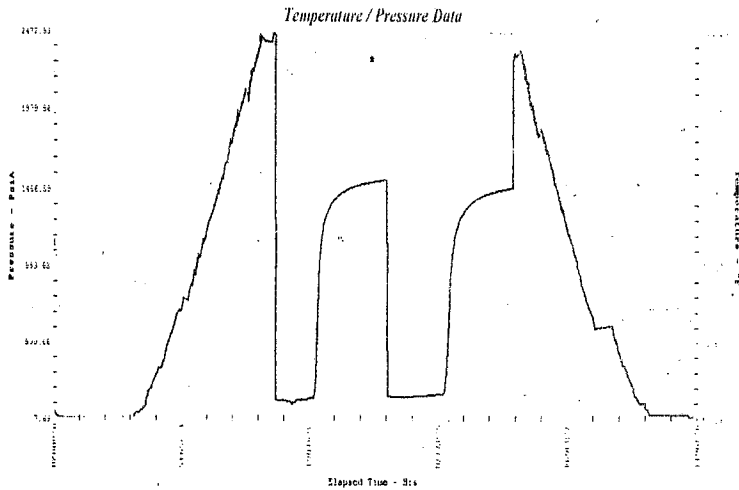
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# SUPERIOR TESTERS ENTERPRISES L.L.C.

1(800)792-6902

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530



1	Initial Hydrostatic Pressure	2461
2	Initial Flow Pressure	127
3	Final Initial Flow Pressure	138
4	Initial Shut-In Pressure	1545
5	Initial Final Flow Pressure	150
6	Final Flow Pressure	164
7	Final Shut-In Pressure	1489
8	Final Hydrostatic Pressure	2293

Maximum Temperature 124

### GENERAL INFORMATION

COMPANY NAME ..... RITCHIE EXPLORATION INC	
TEST DATE ..... 11/27/06	LEASE AND WELL NUMBER ..... CARSON 20B #2
SECTION-TOWN-RANGE ..... 20-27S-23W	FORMATION TESTED ..... MISSISSIPPI
STATE ..... KANSAS	DRILL STEM TEST NUMBER ..... 3
COUNTY ..... FORD	REPORT NUMBER ..... 14670
ELEVATION GROUND LEVEL ..... 2427	ELEVATION KELLY BUSHINGS ..... 2438
COMPANY REPRESENTATIVE ..... MIKE ENGELBRECHT	TESTING ENGINEER ..... FRANK ZAMARRIPA

### TOOL SETTING INFORMATION

TEST INTERVAL (From) ..... 4936	TOP PACKER DEPTH ..... 4931
TEST INTERVAL (to) ..... 4974	BOTTOM PACKER DEPTH ..... 4936
ANCHOR LENGTH ..... 38	NUMBER OF PACKERS ..... 2
TOTAL DEPTH (ft) ..... 4974	PACKER SIZE ..... 6 3/4
	HOLE SIZE ..... 7 7/8

### FLOW TIMES

TOOL OPEN (from) ..... 7:00A	TOOL OPEN (from) ..... 8:30
INITIAL OPEN TOOL OPEN (to) ..... 7:30	FINAL OPEN TOOL OPEN (to) ..... 9:30
DURATION (min.) ..... 30	DURATION (min.) ..... 60
TOOL CLOSED (from) ..... 7:30	TOOL CLOSED (from) ..... 9:30
INITIAL SHUT-IN TOOL CLOSED (to) ..... 8:30	FINAL SHUT-IN TOOL CLOSED (to) ..... 10:30
DURATION (min.) ..... 60	DURATION (min.) ..... 60

INITIAL FLOW WEAK BUILDING BLOW BUILT TO 8 INCHES IN 30 MINUTES

FINAL FLOW WEAK BUILDING BLOW BUILT TO 10 INCHES IN 60 MINUTES

### RESISTIVITY AT DEGREES CHLORIDES

FEET OF Recovery	RECOVERY DESCRIPTION	CHLORIDES			
		% GAS	% OIL	% MUD	% WATER
1) 240	GAS	100			
2) 60	SLIGHT OIL CUT MUD		5	95	
3) 60	MUDDY WATER			45	55
4) 60	MUDDY WATER			20	80
5)	CHLORIDES 46000				

Company: RITCHIE EXPLORATION INC Lease & Well No: CARSON 20B #2 Test #: 3 Date: 11-27-06 SEC. 20  
 TWP. 27S RGE. 23W

**SUPERIOR TESTERS ENTERPRISES L.L.C.**

**DRILL STEM TEST REPORT**

GREAT BEND, KANSAS 67530 (800)792-6902

**GENERAL INFORMATION**

COMPANY NAME ..... RITCHIE EXPLORATION INC  
TEST DATE ..... 11/27/06  
SECTION-TOWN-RANGE ..... 20-27S-23W  
STATE ..... KANSAS  
COUNTY ..... FORD  
ELEVATION GROUND LEVEL ..... 2427  
COMPANY REPRESENTATIVE ..... MIKE ENGELBRECHT  
LEASE AND WELL NUMBER ..... CARSON 20B #2  
FORMATION TESTED ..... MISSISSIPPI  
DRILL STEM TEST NUMBER ..... 3  
REPORT NUMBER ..... 14670  
ELEVATION KELLY BUSHINGS ..... 2438  
TESTING ENGINEER ..... FRANK ZAMARRIPA

**EXTRA EQUIPMENT**

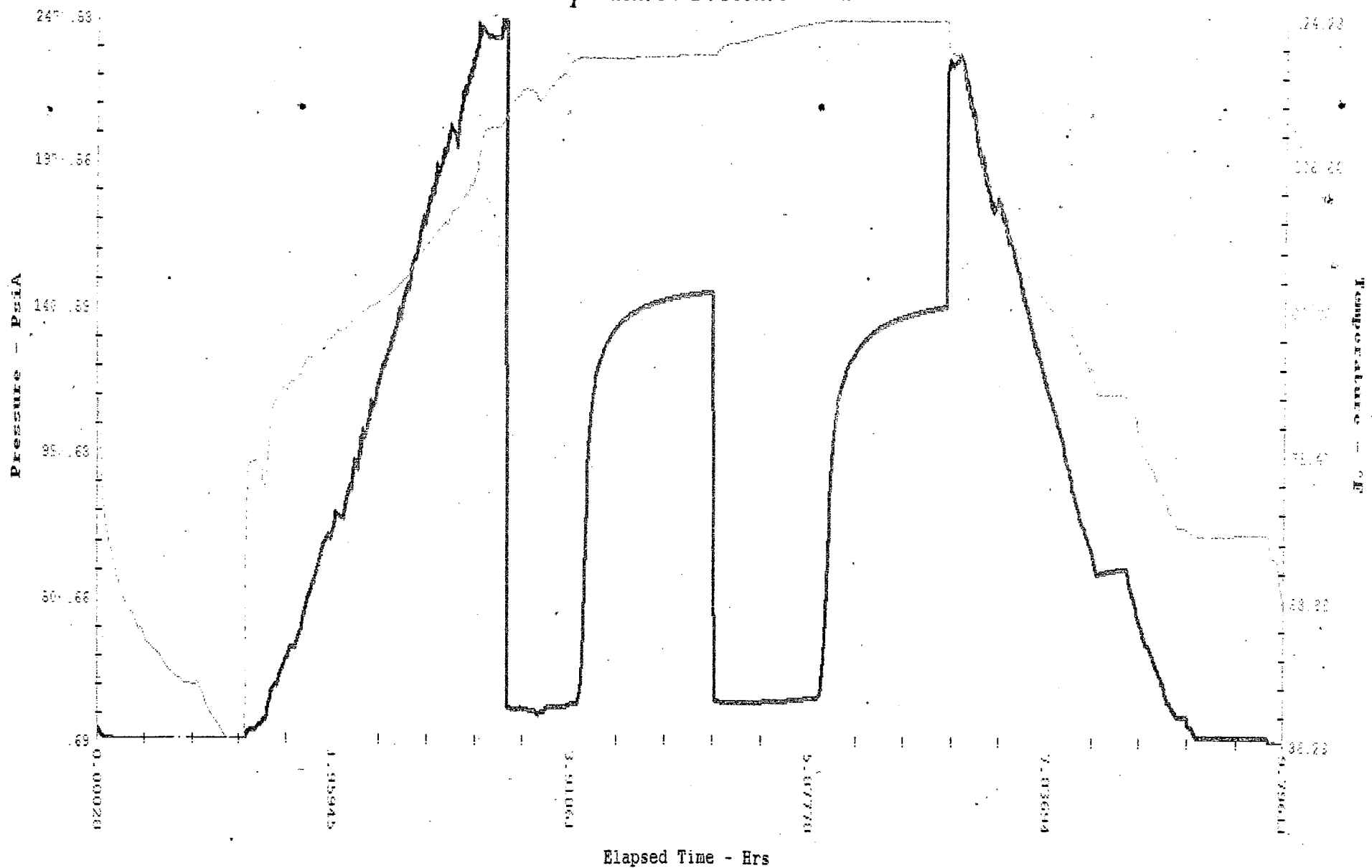
JARS ..... NO  
SAFETY JOINT ..... NO  
ELECTRONIC RECORDER ..... YES  
CIRCULATING SUB ..... NO  
TOP RECORDER DEPTH ..... 4970  
RECORDER NUMBER ..... 4005  
EXTRA PACKER (3RD) ..... NO  
EXTRA PACKER (4TH) ..... NO  
STRADDLE ..... NO  
HOOK WALL ..... NO  
SAMPLER ..... NO  
GREAT BEND  
BOTTOM RECORDER DEPTH ..... 4971  
RECORDER NUMBER ..... 3875  
170 MILES ROUND TRIP FROM

**WELL INFORMATION**

DRILLING CONTRACTOR ..... VAL ENERGY RIG #2  
DRILL PIPE LENGTH ..... 4915  
DRILL PIPE I.D. .... 3.8  
TOOL JOINT SIZE ..... 4 1/2 X.H.  
WEIGHT PIPE LENGTH ..... NONE  
WEIGHT PIPE I.D. .... 2.25  
TOOL JOINT SIZE ..... 4 1/2 X.H.  
DRILL COLLAR LENGTH .....  
DRILL COLLAR I.D. .... 2.25  
TOOL JOINT SIZE ..... 4 1/2 X.H.  
MUD WEIGHT #/GAL ..... 9.1  
VISCOSITY ..... 63  
WATER LOSS ..... 12.4  
CHLORIDES-PITS ..... 10,500  
CHLORIDES-DST .....

**COMMENTS**

# Temperature / Pressure Data



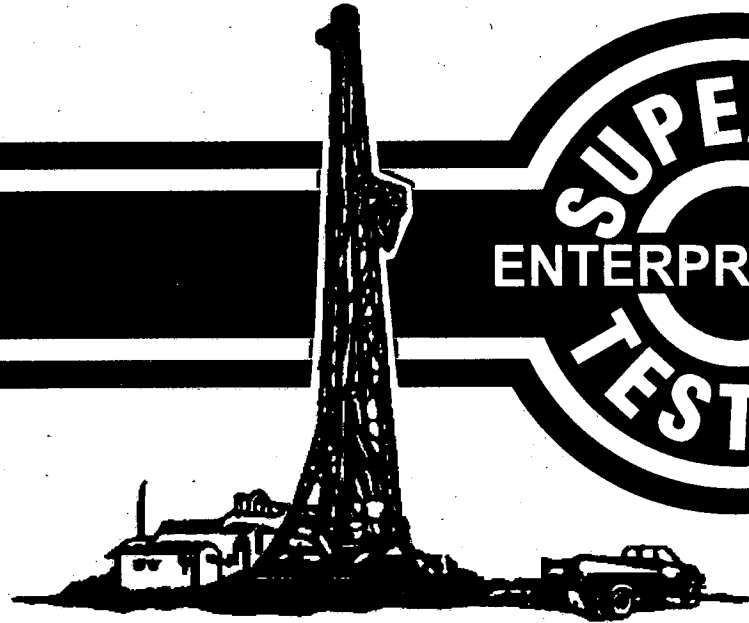
RITCHIE EXPLORATION

20-27S-23W

CARSON 20B #2

11-27-06

DST #3 MISSISSIPPI



KCC  
JAN 3 0 2007  
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# Formation Testing Service Report

RECEIVED  
JAN 3 0 2007  
KCC WICHITA

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas, 67530  
(316) 792-6902

Date 11-26-04 Location 20-275-23 W Elevation 2427 County Ford

Company RITCHIE EXPLORATION INC Charts Mailed to PO 788188 WICHITA KS 67278-3188 Number of Copies 5

Drilling Contractor VAL ENERGY RIG #2

Length Drill Pipe 4863 I.D. Drill Pipe 3.8 Tool Joint Size 4 1/2 NH

Length Weight Pipe \_\_\_\_\_ I.D. Weight Pipe \_\_\_\_\_ Tool Joint Size \_\_\_\_\_

Length Drill Collars \_\_\_\_\_ I.D. Drill Collars \_\_\_\_\_ Tool Joint Size \_\_\_\_\_

Top Packer Depth 4879 Bottom Packer Depth 4884 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 4884 TO 4924 ANCHOR LENGTH 40 TOTAL DEPTH 4924 Hole Size 7 7/8

LEASE & WELL NO. CARSON 20B #2 FORMATION TESTED MRW TEST NO. 2

Mud Weight 9.1 Viscosity 49 Water Loss 12.4 Chlorides - Pits 5000 D.S.T. \_\_\_\_\_

Maximum Temp. 110 °F Initial Hydrostatic Pressure (A) 2438 P.S.I. Final Hydrostatic Pressure (H) 2121 P.S.I.

Tool Open I.F.P. from 10:55 m to 11:25 m 30 min

Tool Closed I.C.I.P. from 11:25 m to 12:10 m 45 min

Tool Open F.F.P. from 12:10 m to 12:55 m 45 min

Tool Closed F.C.I.P. from 12:55 m to 1:55 m 60 min

Initial Blow STRONG BLOW TO BOTTOM OF 5 GAL BUCKET IN LESS THAN 1 MINUTE

Final Blow STRONG BLOW TO BOTTOM OF 5 GAL BUCKET IN LESS THAN 1 MINUTE (AS TO SURFACE IN 5 MINUTES)

Total Feet Recovered 28 FEET OF MUD Gravity of Oil \_\_\_\_\_ Corrected \_\_\_\_\_

28 Feet of MUD % Gas \_\_\_\_\_ % Oil 100 % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_ % Oil \_\_\_\_\_ % Mud \_\_\_\_\_ % Water \_\_\_\_\_

Remarks Ruined 1 Packer

Extra Equipment - Jars NO Safety Joint NO Extra Packer NO Straddle NO Hook Wall NO

Top Recorder No. 4005 Clock No. ELECTRONIC Depth 4920 Cir. Sub \_\_\_\_\_ Sampler \_\_\_\_\_

Bottom Recorder No. 3875 Clock No. 7441 Depth 4921 Insurance \_\_\_\_\_

Price of Job \_\_\_\_\_

Tool Operator Frank Zemanick

Approved By NO 14668

from [B]	<u>150</u>	P.S.I. to [C]	<u>102</u>	P.S.I.
[D]	<u>1201</u>			P.S.I.
from [E]	<u>1103</u>	P.S.I. to [F]	<u>94</u>	P.S.I.
[G]	<u>999</u>			P.S.I.

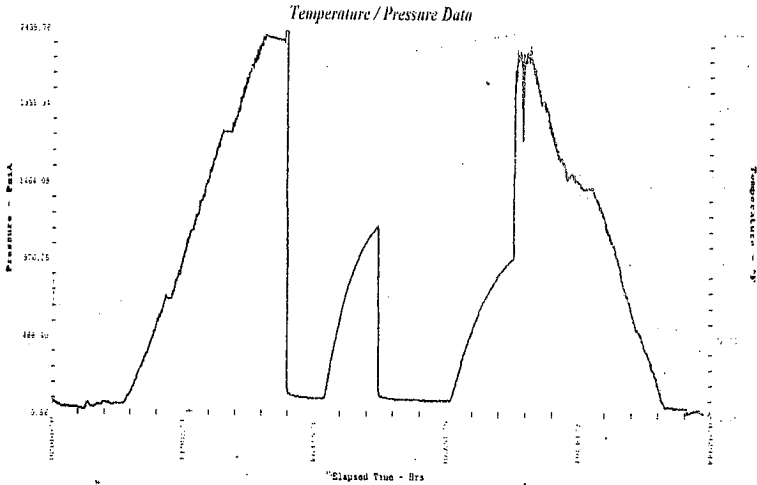
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# SUPERIOR TESTERS ENTERPRISES L.L.C.

1(800)792-6902

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530



- |   |                              |      |
|---|------------------------------|------|
| 1 | Initial Hydrostatic Pressure | 2438 |
| 2 | Initial Flow Pressure        | 150  |
| 3 | Final Initial Flow Pressure  | 102  |
| 4 | Initial Shut-In Pressure     | 1201 |
| 5 | Initial Final Flow Pressure  | 163  |
| 6 | Final Flow Pressure          | 94   |
| 7 | Final Shut-In Pressure       | 999  |
| 8 | Final Hydrostatic Pressure   | 2121 |

Maximum Temperature 116

### GENERAL INFORMATION

COMPANY NAME ..... RITCHIE EXPLORATION INC

TEST DATE ..... 11/26/06

LEASE AND WELL NUMBER ..... CARSON 20B #2

SECTION-TOWN-RANGE ..... 20-27S-23W

FORMATION TESTED ..... MRW

STATE ..... KANSAS

DRILL STEM TEST NUMBER ..... 2

COUNTY ..... FORD

REPORT NUMBER ..... 14668

ELEVATION GROUND LEVEL ..... 2427

ELEVATION KELLY BUSHINGS ..... 2438

COMPANY REPRESENTATIVE ..... MIKE ENGELBRECHT TESTING ENGINEER ..... FRANK ZAMARRIPA

### TOOL SETTING INFORMATION

TEST INTERVAL (From) ..... 4884

TOP PACKER DEPTH ..... 4879

TEST INTERVAL (to) ..... 4924

BOTTOM PACKER DEPTH ..... 4884

ANCHOR LENGTH ..... 40

NUMBER OF PACKERS ..... 2

TOTAL DEPTH (ft) ..... 4924

PACKER SIZE ..... 6 3/4

HOLE SIZE ..... 7 7/8

### FLOW TIMES

TOOL OPEN (from) ..... 10:55A

TOOL OPEN (from) ..... 12:10

INITIAL OPEN TOOL OPEN (to) ..... 11:25

FINAL OPEN TOOL OPEN (to) ..... 12:55

DURATION (min.) ..... 30

DURATION (min.) ..... 45

TOOL CLOSED (from) ..... 11:25

TOOL CLOSED (from) ..... 12:55

INITIAL SHUT-IN TOOL CLOSED (to) ..... 12:10

FINAL SHUT-IN TOOL CLOSED (to) ..... 1:55

DURATION (min.) ..... 45

DURATION (min.) ..... 60

INITIAL FLOW STRONG BLOW TO BOTTOM OF 5 GAL BUCKET IN LESS THAN 1 MINUTE

FINAL FLOW STRONG BLOW TO BOTTOM OF 5 GAL BUCKET IN LESS THAN 1 MINUTE  
GAS TO SURFACE IN 5 MINUTES

RESISTIVITY AT DEGREES CHLORIDES

FEET OF	RECOVERY	DESCRIPTION	%	%	%	%
Recovery			GAS	OIL	MUD	WATER
1) 28		MUD			100	
2)						
3)						
4)						
5)						

Company: RITCHIE EXPLORATION INC  
SEC. 20 TWP. 27S RGE. 23W

Lease & Well No: CARSON 20B #2

Test #: 2

Date: 11-26-06

**SUPERIOR TESTERS ENTERPRISES L.L.C.**

**DRILL STEM TEST REPORT**

GREAT BEND, KANSAS 67530 (800)792-6902

**GENERAL INFORMATION**

COMPANY NAME .....	RITCHIE EXPLORATION INC	LEASE AND WELL NUMBER .....	CARSON 20B #2
TEST DATE .....	11/26/06	FORMATION TESTED .....	MRW
SECTION-TOWN-RANGE .....	20-27S-23W	DRILL STEM TEST NUMBER .....	2
STATE .....	KANSAS	REPORT NUMBER .....	14668
COUNTY .....	FORD	ELEVATION KELLY BUSHINGS .....	2438
ELEVATION GROUND LEVEL .....	2427	TESTING ENGINEER .....	FRANK ZAMARRIPA
COMPANY REPRESENTATIVE .....	MIKE ENGELBRECHT		

**EXTRA EQUIPMENT**

JARS .....	NO	EXTRA PACKER (3RD) .....	NO
SAFETY JOINT .....	NO	EXTRA PACKER (4TH) .....	NO
ELECTRONIC RECORDER .....	YES	STRADDLE .....	NO
CIRCULATING SUB .....	NO	HOOK WALL .....	NO
	<b>170 MILES ROUND TRIP FROM</b>	SAMPLER .....	NO
	<b>GREAT BEND</b>		
TOP RECORDER DEPTH .....	4920	BOTTOM RECORDER DEPTH .....	4921
RECORDER NUMBER .....	4005	RECORDER NUMBER .....	3875

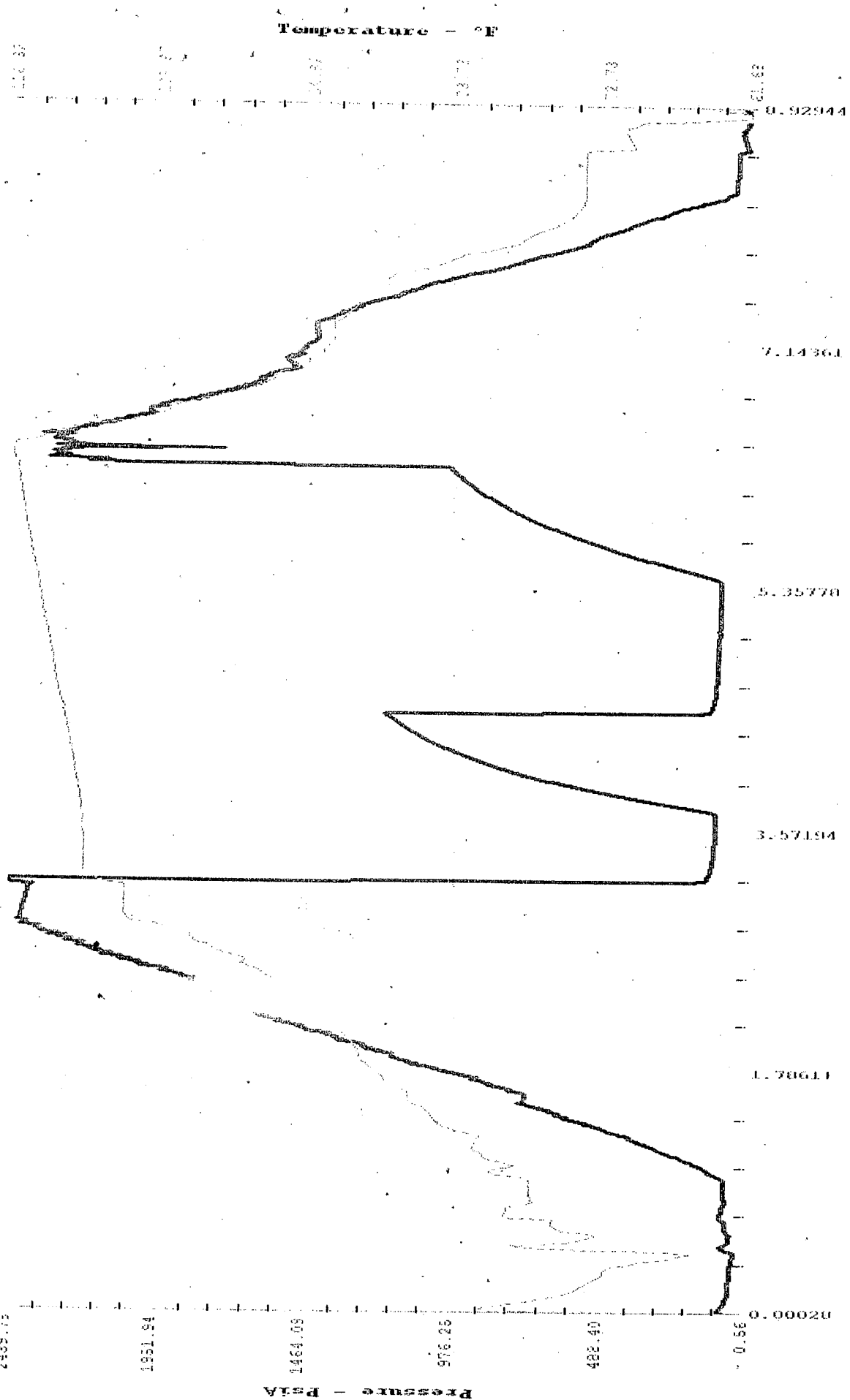
**WELL INFORMATION**

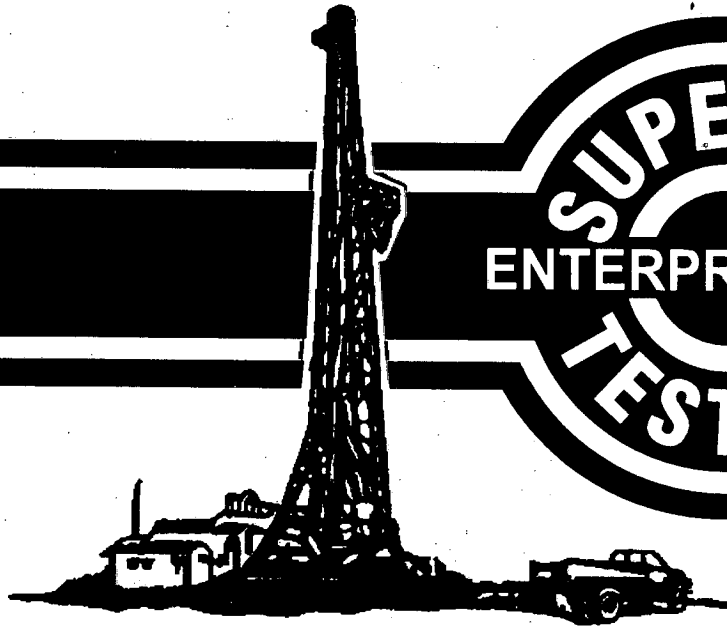
DRILLING CONTRACTOR .....	VAL ENERGY RIG #2	DRILL COLLAR LENGTH .....	
DRILL PIPE LENGTH .....	4863	DRILL COLLAR I.D. ....	2.25
DRILL PIPE I.D. ....	3.8	TOOL JOINT SIZE .....	4 1/2 X.H.
TOOL JOINT SIZE .....	4 1/2 X.H.		
WEIGHT PIPE LENGTH .....	NONE	MUD WEIGHT #/GAL .....	9.1
WEIGHT PIPE I.D. ....	2.25	VISCOSITY .....	49
TOOL JOINT SIZE .....	4 1/2 X.H.	WATER LOSS .....	12.4
		CHLORIDES-PITS .....	8,000
		CHLORIDES-DST .....	

**COMMENTS**



Temperature / Pressure Data





KCC  
JAN 30 2007  
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# *Formation Testing Service Report*

RECEIVED  
JAN 30 2007  
KCC WICHITA

# Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 11-25-06 Location 20-275-3LW Elevation 2427 County Ford  
Number of Copies 5

Company RITCHIE EXPLORATION INC.

Charts Mailed to PO 783188 WICHITA KS 67278-3188

Drilling Contractor VAL ENERGY RIG #2 Tool Joint Size 4 1/2 XH

Length Drill Pipe 4724 I.D. Drill Pipe 3.8 Tool Joint Size \_\_\_\_\_

Length Weight Pipe \_\_\_\_\_ I.D. Weight Pipe \_\_\_\_\_ Tool Joint Size \_\_\_\_\_

Length Drill Collars \_\_\_\_\_ I.D. Drill Collars \_\_\_\_\_ Tool Joint Size \_\_\_\_\_

Top Packer Depth 4740 Bottom Packer Depth 4745 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 4745 TO 4770 ANCHOR LENGTH 25 TOTAL DEPTH 4770 Hole Size 7 7/8

LEASE & WELL NO. CARSON 20B #2 FORMATION TESTED PAWNEE TEST NO. 1

Mud Weight 9.2 Viscosity 52 Water Loss 1.0 Chlorides - Pits 7000 D.S.T. \_\_\_\_\_

Maximum Temp. 113 °F Initial Hydrostatic Pressure (A) 2268 P.S.I. Final Hydrostatic Pressure (H) 2223 P.S.I.

Tool Open I.F.P. from 6:45 m to 7:15 m 30 min

Tool Closed I.C.I.P. from 7:15 m to 8:00 m 45 min

Tool Open F.F.P. from 8:00 m to 8:45 m 45 min

Tool Closed F.C.I.P. from 8:45 m to 9:45 m 60 min

Initial Blow BLOW TO BOTTOM OF BUCKET IN 4 MINUTES

Final Blow BLOW TO BOTTOM OF BUCKET IN LESS THAN 1 MINUTE

Total Feet Recovered 4200 feet of gas & 180 feet of fluid Gravity of Oil \_\_\_\_\_ Corrected

4200 Feet of GAS % Gas 100% Oil \_\_\_\_\_% Mud \_\_\_\_\_% Water

60 Feet of HEAVY OIL CUT MUD % Gas 30% Oil 70% Mud \_\_\_\_\_% Water

60 Feet of MUDDY OIL % Gas 80% Oil 10% Mud 10% Water

60 Feet of GASSY OIL % Gas 5% Gas 95% Oil \_\_\_\_\_% Mud \_\_\_\_\_% Water

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_% Oil \_\_\_\_\_% Mud \_\_\_\_\_% Water

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_% Oil \_\_\_\_\_% Mud \_\_\_\_\_% Water

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_% Oil \_\_\_\_\_% Mud \_\_\_\_\_% Water

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_% Oil \_\_\_\_\_% Mud \_\_\_\_\_% Water

\_\_\_\_\_ Feet of \_\_\_\_\_ % Gas \_\_\_\_\_% Oil \_\_\_\_\_% Mud \_\_\_\_\_% Water

Remarks C CAULK @ RITCHIE-EXP.COM 11-24-06 9:30 PM

Extra Equipment - Jars NO Safety Joint NO Extra Packer NO Straddle NO Hook Wall NO

Top Recorder No. 4005 Clock No. Electronic Depth 4766 Cir. Sub \_\_\_\_\_ Sampler \_\_\_\_\_

Bottom Recorder No. 3825 Clock No. 7441 Depth 4767 Insurance \_\_\_\_\_

Price of Job \_\_\_\_\_

Tool Operator Frank Zomance

Approved By NO 14669

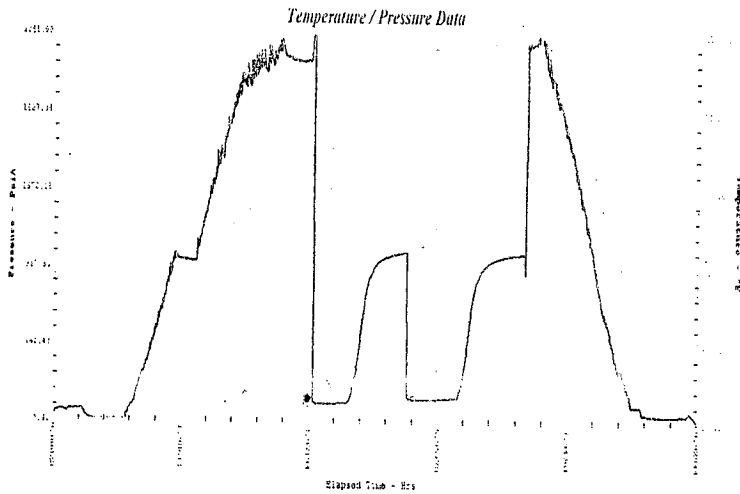
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# SUPERIOR TESTERS ENTERPRISES L.L.C.

1(800)792-6902

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530



1	Initial Hydrostatic Pressure	2268
2	Initial Flow Pressure	118
3	Final Initial Flow Pressure	122
4	Initial Shut-In Pressure	1009
5	Initial Final Flow Pressure	146
6	Final Flow Pressure	152
7	Final Shut-In Pressure	1004
8	Final Hydrostatic Pressure	2223

Maximum Temperature 113

### GENERAL INFORMATION

COMPANY NAME .....		RITCHIE EXPLORATION INC	
TEST DATE .....	11/25/06	LEASE AND WELL NUMBER .....	CARSON 20B #2
SECTION-TOWN-RANGE .....	20-27S-23W	FORMATION TESTED .....	PAWNEE
STATE .....	KANSAS	DRILL STEM TEST NUMBER .....	1
COUNTY .....	FORD	REPORT NUMBER .....	14669
ELEVATION GROUND LEVEL .....	2427	ELEVATION KELLY BUSHINGS .....	2438
COMPANY REPRESENTATIVE .....	MIKE ENGELBRECHT	TESTING ENGINEER .....	FRANK ZAMARRIPA

### TOOL SETTING INFORMATION

TEST INTERVAL (From) .....	4745	TOP PACKER DEPTH .....	4740
TEST INTERVAL (to) .....	4770	BOTTOM PACKER DEPTH .....	4745
ANCHOR LENGTH .....	25	NUMBER OF PACKERS .....	2
TOTAL DEPTH (ft) .....	4770	PACKER SIZE .....	6 3/4
		HOLE SIZE .....	7 7/8

### FLOW TIMES

TOOL OPEN (from) .....	6:45a	TOOL OPEN (from) .....	8:00
INITIAL OPEN TOOL OPEN (to) .....	7:15	FINAL OPEN TOOL OPEN (to) .....	8:45
DURATION (min.) .....	30	DURATION (min.) .....	45
TOOL CLOSED (from) .....	7:15	TOOL CLOSED (from) .....	8:45
INITIAL SHUT-IN TOOL CLOSED (to) .....	8:00	FINAL SHUT-IN TOOL CLOSED (to) .....	9:45
DURATION (min.) .....	45	DURATION (min.) .....	60

INITIAL FLOW      BOTTOM OF 5 GAL BUCKET IN 4 MINUTES

FINAL FLOW      BOTTOM OF 5 GAL BUCKET IN LESS THAN 1 MINUTE

RESISTIVITY                      AT                      DEGREES                      CHLORIDES

FEET OF Recovery	RECOVERY DESCRIPTION	CHLORIDES			
		% GAS	% OIL	% MUD	% WATER
1) 4200	GAS	100			
2) 60	HEAVY OIL CUT MUD		30	70	
3) 60	MUDDY OIL		80	10	10
5)					

Company: RITCHIE EXPLORATION INC  
20 TWP. 27S RGE. 23W

Lease & Well No: CARSON 20B #2

Test #: 1

Date: 11-25-06

SEC.

**SUPERIOR TESTERS ENTERPRISES L.L.C.**

**DRILL STEM TEST REPORT**

GREAT BEND, KANSAS 67530 (800)792-6902

**GENERAL INFORMATION**

COMPANY NAME .....	RITCHIE EXPLORATION INC	LEASE AND WELL NUMBER .....	CARSON 20B #2
TEST DATE .....	11/25/06	FORMATION TESTED .....	PAWNEE
SECTION-TOWN-RANGE .....	20-27S-23W	DRILL STEM TEST NUMBER .....	1
STATE .....	KANSAS	REPORT NUMBER .....	14669
COUNTY .....	FORD	ELEVATION KELLY BUSHINGS .....	2438
ELEVATION GROUND LEVEL .....	2427	TESTING ENGINEER .....	FRANK ZAMARRIPA
COMPANY REPRESENTATIVE .....	MIKE ENGELBRECHT		

**EXTRA EQUIPMENT**

JARS .....	NO	EXTRA PACKER (3RD) .....	NO
SAFETY JOINT .....	NO	EXTRA PACKER (4TH) .....	NO
ELECTRONIC RECORDER .....	YES	STRADDLE .....	NO
CIRCULATING SUB .....	NO	HOOK WALL .....	NO
		SAMPLER .....	NO
		<b>170 MILES ROUND TRIP FROM GREAT BEND</b>	
TOP RECORDER DEPTH .....	4766	BOTTOM RECORDER DEPTH .....	4767
RECORDER NUMBER .....	4005	RECORDER NUMBER .....	3875

**WELL INFORMATION**

DRILLING CONTRACTOR .....	VAL ENERGY RIG #2	DRILL COLLAR LENGTH .....	
DRILL PIPE LENGTH .....	4724	DRILL COLLAR I.D. ....	2.25
DRILL PIPE I.D. ....	3.8	TOOL JOINT SIZE .....	4 1/2 X.H.
TOOL JOINT SIZE .....	4 1/2 X.H.		
WEIGHT PIPE LENGTH .....	NONE	MUD WEIGHT #/GAL .....	9.2
WEIGHT PIPE I.D. ....	2.25	VISCOSITY .....	52
TOOL JOINT SIZE .....	4 1/2 X.H.	WATER LOSS .....	1
		CHLORIDES-PITS .....	7,000
		CHLORIDES-DST .....	

**COMMENTS**

*Temperature / Pressure Data*

