

1-24-09

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
September 1999  
Form Must Be Typed

**CONFIDENTIAL**

**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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  
 Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SLOW     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. \_\_\_\_\_  

<u>11/4/06</u>	<u>11/15/06</u>	<u>11/15/06</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

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**JAN 24 2007**  
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API No. 15 - 057-20577-00-00  
 County: Ford  
 approx. SE - SE - NW Sec. 17 Twp. 27S S. R. 23  East  West  
2294 feet from S / N (circle one) Line of Section  
2311 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 17B Well #: 1  
 Field Name: \_\_\_\_\_  
 Producing Formation: Pawnee  
 Elevation: Ground: 2415 Kelly Bushing: 2425  
 Total Depth: 5040 Plug Back Total Depth: 5009  
 Amount of Surface Pipe Set and Cemented at 434 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set 1404 Feet  
 If Alternate II completion, cement circulated from 1404  
 feet depth to surface w/ 475 sx cmt.  
 Drilling Fluid Management Plan AIF # NH 9-12-08  
 (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,  
 2007.  
 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

Operator Name: Ritchie Exploration, Inc. Lease Name: Carson 17B Well #: 1  
 Sec. 17 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  Yes  No  
 (Attach Additional Sheets)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy)

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum

SEE ATTACHED

List All E. Logs Run:

Dual Induction Log  
 Dual Compensated Porosity Log

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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-sack grout	5 yards	
Surface	12-1/4	8-5/8	24	434	common	325	3%cc, 2% gel
Production	7-7/8	4-1/2	10.5	5042	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 <input checked="" type="checkbox"/> <b>KCC WICHITA</b> Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4748.5' - 4754.5'	1500 gals 15% NE	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8	4981'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 1/5/07			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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	22.54		32.44		38.8

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 \_\_\_\_\_



**#1 Carson 17B**

2294' FNL & 2311' FWL

16' N & 1' E of SE SE NW Section 17-27S-23W

Ford County, Kansas

API# 15-057-20577-0000

Elevation: 2415' GL, 2425' KB

<u>Sample Tops</u>			Ref. Wellell
Stotler	3445'	-1020	-6
Heebner	4101'	-1676	-8
Stark Shale	4534'	-2109	-1
Pawnee	4744'	-2319	-7
Cherokee Shale	4791'	-2366	-8
Miss St. Louis	4916'	-2491	-22
Miss Sperg (Porosity)	4927'	-2502	+3
RTD	5040'	-2615	

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**JAN 25 2007**  
**KCC WICHITA**

# ALLIED CEMENTING CO., INC. 24890

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

SERVICE POINT:  
MEDICINE LODGE

DATE <u>11-4-06</u>	SEC. <u>17</u>	TWP. <u>27s</u>	RANGE <u>23W</u>	CALLED OUT <u>2:00 am</u>	ON LOCATION <u>5:30 am</u>	JOB START <u>8:30 am</u>	JOB FINISH <u>9:15 am</u>
LEASE <u>CALSON</u>		WELL # <u>17-A</u>	LOCATION <u>FORD, W TO WILLROADS SIGN,</u>		COUNTY <u>FORD</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)			<u>15 TO ELVADA, 2 3/4 E PAST ELVADA, N/1470</u>				

CONTRACTOR VAL #2  
 TYPE OF JOB SURFACE CASING  
 HOLE SIZE 12 1/4" T.D. 440'  
 CASING SIZE 8 5/8" DEPTH 436'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2" DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 350 MINIMUM 100  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 15'  
 CEMENT LEFT IN CSG. 15'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 26 3/4 bbl. FRESH WATER

OWNER RITCHIE EXPLORATION  
 CEMENT  
 AMOUNT ORDERED 325.5x CLASS A + 39.5cc + 2% GEL  
 COMMON 325 A @ 10.65 3461.25  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL 6 @ 16.65 99.90  
 CHLORIDE 12 @ 46.60 559.20  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 343 @ 1.90 651.70  
 MILEAGE 54 x 343 x .09 1666.98  
 TOTAL 6439.03

**EQUIPMENT**

PUMP TRUCK CEMENTER BILL M.  
 # 414 HELPER DENNIS C.  
 BULK TRUCK  
 # 353 DRIVER THOMAS D.  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

**REMARKS:**

PIPE ON BOTTOM, BREAK CIRCULATION, PUMP PRE-FLUSH, PUMP 325.5x CLASS A + 39.5cc + 2% GEL, STOP PUMPS, RELEASE PLUG, START DISPLACEMENT, SEE LIKT, DISPLACE WITH 26 3/4 bbl. FRESH WATER, STOP PUMPS, SHUT-IN, CIRCULATE CEMENT TO SURFACE

**SERVICE**

DEPTH OF JOB 436'  
 PUMP TRUCK CHARGE 0-300' 815.00  
 EXTRA FOOTAGE 136' @ .65 88.40  
 MILEAGE 54 @ 6.00 324.00  
 MANIFOLD HEAD RENT @ 100.00 100.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

CHARGE TO: RITCHIE EXPLORATION  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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TOTAL 1327.40

**KCC WICHITA**

8 5/8" RUBBER PLUG 1 @ 100.00 100.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

**ANY APPLICABLE TAX WILL BE CHARGED UPON INVOICING**  
 TOTAL 100.00

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.

TAX \_\_\_\_\_  
 TOTAL CHARGE [scribble]  
 DISCOUNT [scribble] IF PAID IN 30 DAYS

SIGNATURE Ron Moon

Ron Moon  
 PRINTED NAME

# ALLIED CEMENTING CO., INC. 23899

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

SERVICE POINT:  
*MEDICINE LODGE*

DATE <i>11-20-06</i>	SEC. <i>17</i>	TWP. <i>27s</i>	RANGE <i>23W</i>	CALLED OUT	ON LOCATION <i>12:30 PM</i>	JOB START <i>1:00 PM</i>	JOB FINISH <i>2:30 PM</i>
LEASE <i>BARSON</i>	WELL # <i>17-B</i>	LOCATION <i>WELROADS ELEVATOR</i>			COUNTY <i>FORD</i>	STATE <i>KANSAS</i>	
OLD OR (NEW) (Circle one)		<i>2 3/4 EAST, 1/2 NORTH 21N0</i>					

CONTRACTOR *PLAINS WELL SVC.* OWNER *RITCHIE EXPLORATION*

TYPE OF JOB *FORT COLLAR*

HOLE SIZE *7 7/8"* T.D.

CASING SIZE *4 1/2" 10.5"* DEPTH

TUBING SIZE *2 3/8"* DEPTH

DRILL PIPE DEPTH

TOOL *FORT COLLAR* DEPTH *406'*

PRES. MAX *1000#* MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT *5 BBLs WATER*

EQUIPMENT

CEMENT AMOUNT ORDERED  
*475 & 60:40:6 + 1/4# FLO SEAL*

COMMON <i>A</i>	<i>385</i>	@ <i>10.65</i>	<i>3035.25</i>
POZMIX	<i>190</i>	@ <i>5.80</i>	<i>1102.00</i>
GEL	<i>25</i>	@ <i>16.65</i>	<i>416.25</i>
CHLORIDE		@	
ASC		@	
<i>FLO-SEAL</i>	<i>119#</i>	@ <i>2.00</i>	<i>2.38.00</i>
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<i>506</i>	@ <i>1.90</i>	<i>961.40</i>
MILEAGE	<i>506 x .54</i>	@ <i>.09</i>	<i>2459.16</i>
TOTAL			<i>8212.06</i>

PUMP TRUCK CEMENTER *KEVIN BRUNGAARDT*

# *444-302* HELPER *DENNIS CUSHENBERY*

BULK TRUCK

# *421-251* DRIVER *GREG GRIEVE*

BULK TRUCK

# DRIVER

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REMARKS:  
*PRESSURE CASING TO 1200#*  
*RELEASE PRESSURE + OPEN TOOL*  
*BREAK CIRCULATION / FRESH H2O*  
*START CEMENT @ 5 BPM*  
*LOSE RETURNS WITH 350g MIXED*  
*SLOW RATE TO 4 BPM - DESPARE*  
*TBB WITH 5 BBLs H2O - CLOSE*  
*FORT COLLAR + PRESSURE TO 1200#*  
*RUN 4 JTS. TBB + REVERSE OUT / 10 BBLs*

CHARGE TO: *RITCHIE EXPLORATION*

STREET

CITY *WICHITA* STATE *KANSAS* ZIP

SERVICE

DEPTH OF JOB	<i>1406'</i>		
PUMP TRUCK CHARGE			<i>955.00</i>
EXTRA FOOTAGE	<i>54</i>	@ <i>6.00</i>	<i>324.00</i>
MILEAGE		@	
MANIFOLD		@	
		@	
		@	

RECEIVED TOTAL *1279.00*

JAN 25 2007  
PLUG & FLOAT EQUIPMENT

**KCC WICHITA**

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 *9491.06*

DISCOUNT *949.11* IF PAID IN 30 DAYS

SIGNATURE *[Signature]*

PRINTED NAME *[Signature]*

# ALLIED CEMENTING CO., INC. 23897

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

SERVICE POINT:  
Med. Lodge

DATE <u>11-15-06</u>	SEC. <u>17</u>	TWP. <u>27S</u>	RANGE <u>23W</u>	CALLED OUT <u>3:30 AM</u>	ON LOCATION <u>9:30 AM</u>	JOB START <u>3:30 PM</u>	JOB FINISH <u>5:45 PM</u>
LEASE <u>CARSON</u>	WELL # <u>17-B</u>	LOCATION <u>WILLROADS, 2 3/4 EAST</u>	COUNTY <u>FORD</u>	STATE <u>KANSAS</u>	OLD OR NEW (Circle one) <u>✓</u> <u>1</u> <u>1/2 NORTH, WEST INTO</u>		

CONTRACTOR VAL #2  
 TYPE OF JOB PROD. CASING  
 HOLE SIZE 7 7/8" T.D. 5040'  
 CASING SIZE 4 1/2" 10.5" DEPTH 5037'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 1500# MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 20'  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 80 1/2 BBLs. WATER  
 EQUIPMENT \_\_\_\_\_

PUMP TRUCK CEMENTER DAVID FELTO  
 # 352 HELPER MARK COLEY  
 BULK TRUCK \_\_\_\_\_  
 # 353-314 DRIVER FERRY OSHENBERY  
 BULK TRUCK \_\_\_\_\_  
 # \_\_\_\_\_ DRIVER KEVIN BRUNBARDT

OWNER RETCHIE EXPLORATION

CEMENT  
 AMOUNT ORDERED 500 BALS. MUD CLEAN  
325# 60:40:2 + 10% SALT  
+ .75% CD-31 WITH DEFORMER

COMMON A	<u>195</u>	@	<u>10.65</u>	<u>2076.75</u>
POZMIX	<u>130</u>	@	<u>5.80</u>	<u>754.00</u>
GEL	<u>6</u>	@	<u>16.65</u>	<u>99.90</u>
CHLORIDE		@		
ASC		@		
CD-31	<u>210#</u>	@	<u>7.50</u>	<u>1575.00</u>
DEFORMER	<u>46#</u>	@	<u>7.20</u>	<u>331.20</u>
SALT	<u>33</u>	@	<u>9.60</u>	<u>316.80</u>
MUD CLEAN	<u>500</u>	@	<u>1.00</u>	<u>500.00</u>
		@		
		@		
		@		
		@		
HANDLING	<u>370</u>	@	<u>1.90</u>	<u>703.00</u>
MILEAGE	<u>370 x .54</u>		<u>-.09</u>	<u>1798.20</u>
				<u>TOTAL 8154.85</u>

REMARKS:  
RUN 4 1/2" CSG + BREAK CALCULATION  
PUMP 500 GALS. MUD CLEAN  
PUMP RAT + MOUSE HOLES / 25 SACKS  
MIX 300# 60:40:2 + 10% SALT  
+ .75% CD-31 + DEFORMER  
WASH PUMPS & LINES  
DISPLACE AUG TO 5021' / 80 1/2 BBLs  
FLOAT DID HOLD!

SERVICE

DEPTH OF JOB	<u>5040'</u>		
PUMP TRUCK CHARGE			<u>1840.00</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>54</u>	@	<u>6.00</u>
MANIFOLD	@		
HEAD RENTAL	@	<u>100.00</u>	<u>100.00</u>
	@		
			<u>TOTAL 2264.00</u>

CHARGE TO: RETCHIE EXPLORATION  
 STREET P.O. BOX 783188  
 CITY WICHITA STATE KANSAS ZIP 67278

RECEIVED  
 JAN 25 2007

To Allied Cementing Co., Inc.  
 You are hereby requested to furnish 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.

PLUG & FLOAT EQUIPMENT

1-4 1/2" TRP	@	<u>55.00</u>	<u>55.00</u>
1-GUIDE SHOE	@	<u>125.00</u>	<u>125.00</u>
1-AFU INSERT	@	<u>215.00</u>	<u>215.00</u>
1-PORT COLLAR	@	<u>1600.00</u>	<u>1600.00</u>
3-BASKETS	@	<u>130.00</u>	<u>390.00</u>
7-TURBOLIZERS	@	<u>55.00</u>	<u>385.00</u>
			<u>TOTAL 2770.00</u>

TAX \_\_\_\_\_  
 TOTAL CHARGE 13188.85  
 DISCOUNT 1318.89 IF PAID IN 30 DAYS

SIGNATURE X Gary Rowe

PRINTED NAME Jw.

KCC  
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1-24-09

January 24, 2007

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

**RECEIVED**  
**JAN 25 2007**  
**KCC WICHITA**

RE: #1 Carson 17B  
Sec. 17-27S-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.

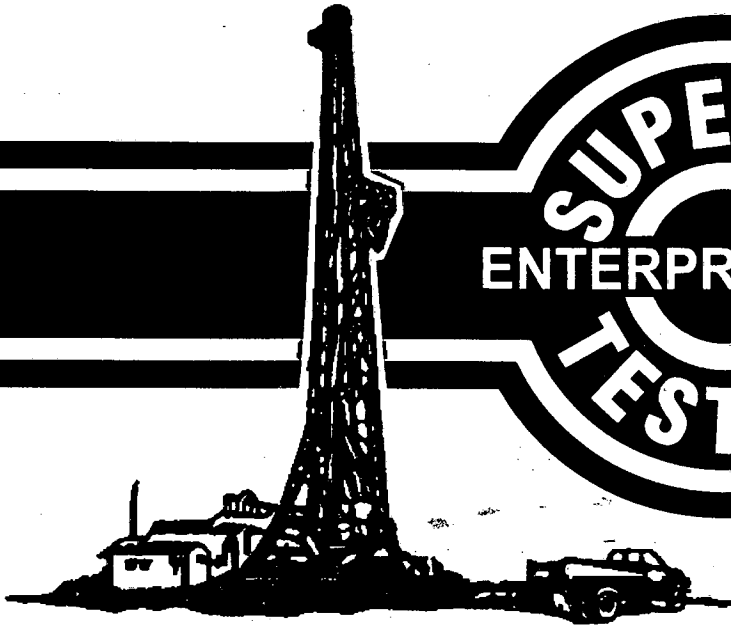
If you have any questions, please feel free to call the undersigned or John Niernberger at 316-691-9500. Thank you for all of your help in this matter.

Sincerely,

Debbie Phillips  
Accounting Supervisor

dkp

Enclosures



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# *Formation Testing Service Report*

KCC  
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# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 11-13-06 Location 17-27-23W Elevation 2425 County Ford

Company Ritchie ~~EXPLORATION~~ EXPLORATION INC. Number of Copies 5

Charts Mailed to PO 783188 Wichita KS 67278-3188

Drilling Contractor UAL Rig #2

Length Drill Pipe 4901 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2 XH

Length Weight Pipe - I.D. Weight Pipe - Tool Joint Size -

Length Drill Collars - I.D. Drill Collars - Tool Joint Size -

Top Packer Depth 4916 Bottom Packer Depth 4921 Number of Packers - Packer Size 6 3/4

TESTED FROM 4921 TO 4960 ANCHOR LENGTH 39 TOTAL DEPTH 4960 Hole Size 7 1/8

LEASE & WELL NO. Carson 17B #1 FORMATION TESTED Mississippian TEST NO. 3

Mud Weight 9.2 Viscosity 49 Water Loss 9.2 Chlorides - Pits 8,500 D.S.T. 45,000

Maximum Temp. 119 °F Initial Hydrostatic Pressure (A) 2451 P.S.I. Final Hydrostatic Pressure (H) 2381 P.S.I.

Tool Open I.F.P. from 10:48 m to 11:33 m 45 min

Tool Closed I.C.I.P. from 11:33 m to 12:33 m 60 min

Tool Open F.F.P. from 12:33 m to 2:03 m 90 min

Tool Closed F.C.I.P. from 2:03 m to 4:03 m 120 min

Initial Blow strong Blow Bottom Bucket Less 1 min

Final Blow strong Blow Bottom Bucket Less 1 min

Total Feet Recovered 250 Gravity of Oil - Corrected -

70 Feet of Mud % Gas - % Oil 100 % Mud - % Water -

40 Feet of Waxy Mud % Gas - % Oil 100 % Mud - % Water -

60 Feet of Slight oil cut Mud + water % Gas 5 % Oil 47 % Mud 47 % Water -

60 Feet of Slight oil cut Mud + water % Gas 5 % Oil 30 % Mud 60 % 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 45,000 PPM

Extra Equipment - Jars - Safety Joint - Extra Packer - Straddle - Hook Wall -

Top Recorder No. 91986 Clock No. etc Depth 4956 Cir. Sub - Sampler -

Bottom Recorder No. 4337 Clock No. 5463 Depth 4957 Insurance -

Price of Job -

Tool Operator DAVID Nichols

Approved By -

NO 14864

from [B] <u>65</u> P.S.I. to [C] <u>102</u> P.S.I.
[D] <u>1525</u> P.S.I.
from [E] <u>109</u> P.S.I. to [F] <u>153</u> P.S.I.
[G] <u>1498</u> P.S.I.

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to 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.

# SUN LAVOR TESTERS ENTERPRISES L.L.C.

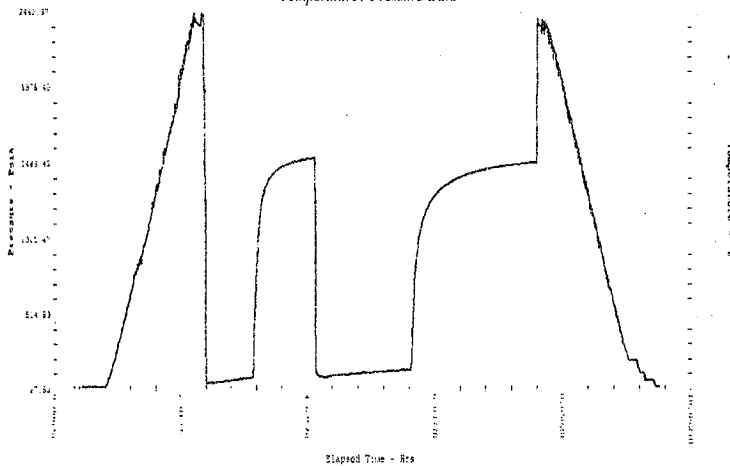
1(800)792-6902

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530

Company: RITCHIE EXPLORATION INC Lease & Well No. CARSON 17 B #1 Test #: 3 Date: 11-13-06 SEC. 17  
 TWP. 27 RGE. 23W

Temperature / Pressure Data



1	Initial Hydrostatic Pressure	2451
2	Initial Flow Pressure	65
3	Final Initial Flow Pressure	102
4	Initial Shut-In Pressure	1525
5	Initial Final Flow Pressure	109
6	Final Flow Pressure	153
7	Final Shut-In Pressure	1498
8	Final Hydrostatic Pressure	2381

Maximum Temperature 119

**GENERAL INFORMATION**

COMPANY NAME	..... RITCHIE EXPLORATION INC	LEASE AND WELL NUMBER	..... CARSON 17B #1
TEST DATE	..... 11/13/06	FORMATION TESTED	..... MISSISSIPAN
SECTION-TOWN-RANGE	..... 17-27-23W	DRILL STEM TEST NUMBER	..... 3
STATE	..... KANSAS	REPORT NUMBER	..... 14864
COUNTY	..... FORD	ELEVATION KELLY BUSHINGS	..... 2425
ELEVATION GROUND LEVEL	..... 2414	COMPANY REPRESENTATIVE	..... MIKE ENGELBRECHT TESTING ENGINEER
			..... DAVID NICHOLS

**TOOL SETTING INFORMATION**

TEST INTERVAL (From)	..... 4921	TOP PACKER DEPTH	..... 4916
TEST INTERVAL (to)	..... 4960	BOTTOM PACKER DEPTH	..... 4921
ANCHOR LENGTH	..... 39	NUMBER OF PACKERS	..... 2
TOTAL DEPTH (ft)	..... 4960	PACKER SIZE	..... 6 3/4
		HOLE SIZE	..... 7 7/8

**FLOW TIMES**

TOOL OPEN (from)	..... 10:48	TOOL OPEN (from)	..... 12:33
INITIAL OPEN TOOL OPEN (to)	..... 11:33	FINAL OPEN TOOL OPEN (to)	..... 2:03
DURATION (min.)	..... 45	DURATION (min.)	..... 90
TOOL CLOSED (from)	..... 11:33	TOOL CLOSED (from)	..... 2:03
INITIAL SHUT-IN TOOL CLOSED (to)	..... 12:33	FINAL SHUT-IN TOOL CLOSED (to)	..... 4:03
DURATION (min.)	..... 60	DURATION (min.)	..... 120

**INITIAL FLOW**

STRONG BLOW BOTTOM OF BUCKET IN LESS 1 MIN

**FINAL FLOW**

STRONG BLOW BOTTOM OF BUCKET IN LESS 1 MIN

Feet of Recovery	RESISTIVITY	AT	DEGREES	CHLORIDES			
				% GAS	% OIL	% MUD	% WATER
1) 70	MUD					100	
2) 60	WATERY MUD					100	
3) 60	SLIGHT OILY CUT MUD AND WATER				5	47	47
4) 60	SLIGHT OILY CUT MUD AND WATER			5	5	30	60
5)	CHLORIDES WERE 45,000						

**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 ..... 11/13/06 LEASE AND WELL NUMBER ..... CARSON 17B #1  
SECTION-TOWN-RANGE ..... 17-27-23W FORMATION TESTED ..... MISSISSIPPAN  
STATE ..... KANSAS DRILL STEM TEST NUMBER ..... 3  
COUNTY ..... FORD REPORT NUMBER ..... 14864  
ELEVATION GROUND LEVEL ..... 2414 ELEVATION KELLY BUSHINGS ..... 2425  
COMPANY REPRESENTATIVE ..... MIKE ENGELBRECHT TESTING ENGINEER ..... DAVID NICHOLS

**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  
162 MILES ROUND TRIP FROM GREAT BEND  
TOP RECORDER DEPTH ..... 4956 BOTTOM RECORDER DEPTH ..... 4957  
RECORDER NUMBER ..... 91986 RECORDER NUMBER ..... 4337

**WELL INFORMATION**

DRILLING CONTRACTOR ..... VAL RIG#2  
DRILL PIPE LENGTH ..... 4901 DRILL COLLAR LENGTH .....  
DRILL PIPE I.D. .... 3.8 DRILL COLLAR I.D. .... 2.25  
TOOL JOINT SIZE ..... 4 1/2 X.H. TOOL JOINT SIZE ..... 4 1/2 X.H.  
WEIGHT PIPE LENGTH ..... MUD WEIGHT #/GAL ..... 9.2  
WEIGHT PIPE I.D. .... 2.25 VISCOSITY ..... 49  
TOOL JOINT SIZE ..... 4 1/2 X.H. WATER LOSS ..... 9.2  
CHLORIDES-PITS ..... 8,500  
CHLORIDES-DST .....

**COMMENTS**

# SUPERIOR TESTERS ENTERPRISES L.L.C.

GREAT BEND, KANSAS

## GAS FLOW RATE

(800) 792-6902

#

STATE.....	KANSAS	Test Date .....	1/0/1900
COUNTY.....	FORD	Sec Town Range .....	17-27-23W
FIELD.....		Report Number .....	14864

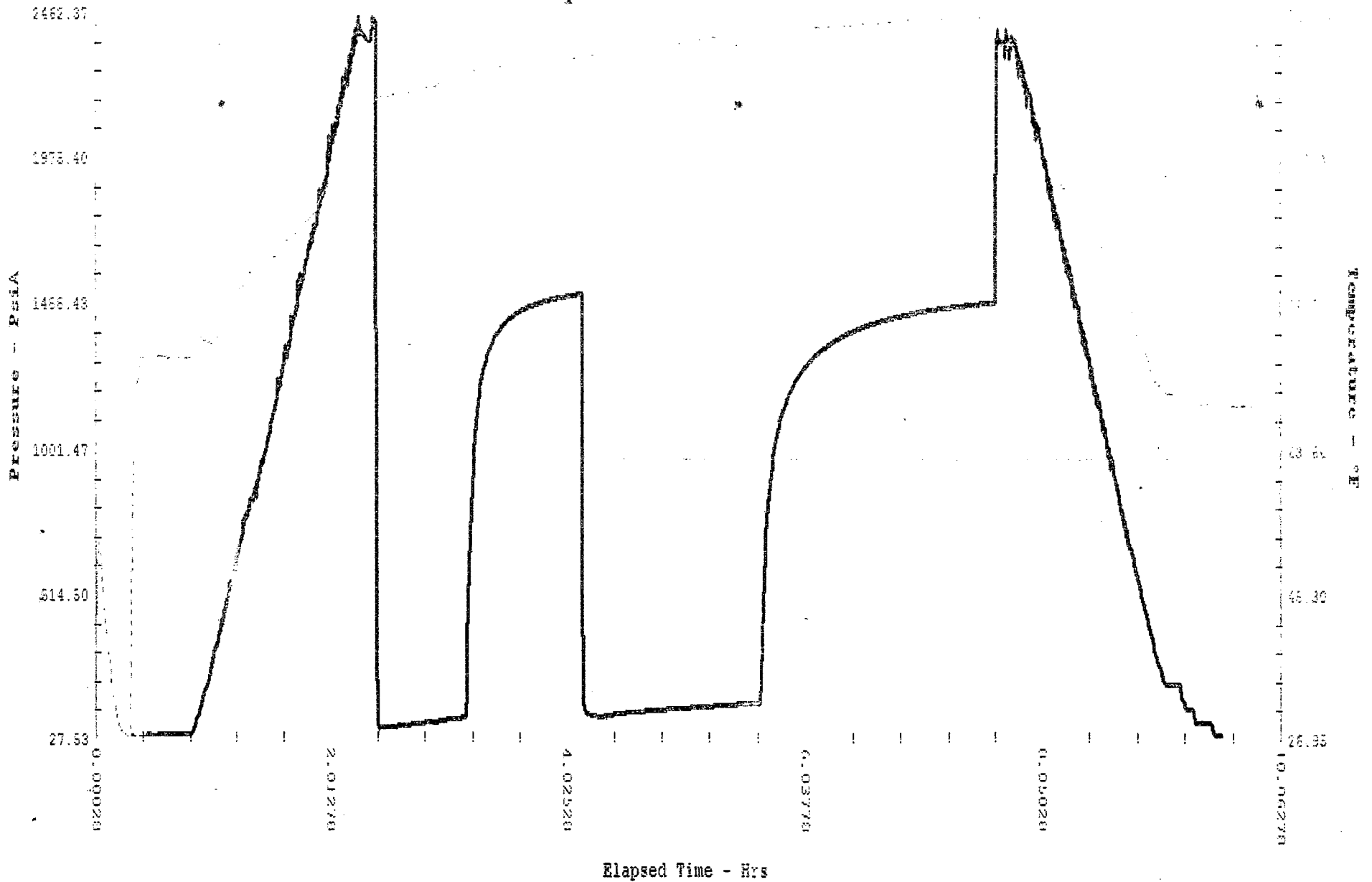
### Initial Flow

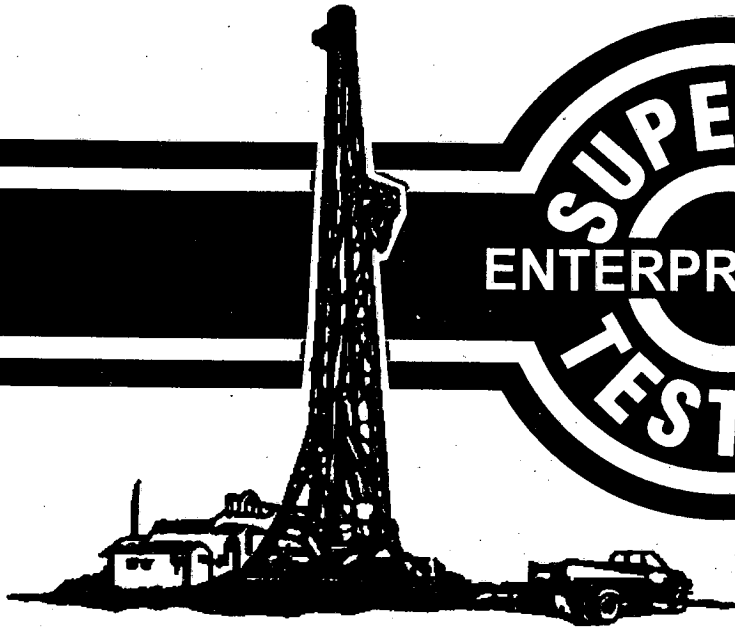
Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED	10:58	10	4			1/2	12.500
AT 10:48 AM	11:08	20	18			1/2	26.600
GAS TO SURFACE	11:18	30	55			1/2	46.600
IN 26 MIN	11:28	40	90			1/2	59.500

### Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED	12:43	10		4		3/4	156.000
AT 12:33	12:53	20		3		1/2	59.200
	1:03	30		3		1/2	59.200
	1:13	40		3		1/2	59.200
	1:23	50		3		1/2	59.200
	1:33	60		3		1/2	59.200
	1:43	70		3		1/2	59.200
	1:53	80		3		1/2	59.200
	2:03	90		3		1/2	59.200
GAS SAMPLE WAS TAKEN AT THE END OF 2ND OPENING							

# Temperature / Pressure Data





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JAN 25 2007  
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# Formation Testing Service Report

KCC  
JAN 24 2007  
CONFIDENTIAL

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 11-12-06 Location 17-27-23W Elevation 2414 County Ford

Company Ritchie ~~EXP~~ EXPLORATION INC Number of Copies 5

Charts Mailed to PO 783188 Wichita KS 67278-3188

Drilling Contractor Val Rig #2

Length Drill Pipe 4902 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2 XH

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

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

Top Packer Depth 4917 Bottom Packer Depth 4922 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 4922 TO 4939 ANCHOR LENGTH 17 TOTAL DEPTH 4939 Hole Size 7 7/8

LEASE & WELL NO. Carson B17#1 FORMATION TESTED Mississippian TEST NO. 2

Mud Weight 9.1 Viscosity 47 Water Loss 10.2 Chlorides - Pits 8,800 D.S.T. \_\_\_\_\_

Maximum Temp. 115 °F Initial Hydrostatic Pressure (A) 2446 P.S.I. Final Hydrostatic Pressure (H) 2598 P.S.I.

Tool Open I.F.P. from 4:35 p.m. to 5:04 m. 30 min

Tool Closed I.C.I.P. from 5:05 m to 6:05 m 60 min

Tool Open F.F.P. from 6:05 m to 7:05 m 60 min

Tool Closed F.C.I.P. from 7:05 m to 9:05 m 120 min

Initial Blow Bottom Bucket Less 1 min gas to surface in 18 min

Final Blow Bottom Bucket Less 1 min

Total Feet Recovered 80 Gravity of Oil \_\_\_\_\_ Corrected

80 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 \_\_\_\_\_

Remarks \_\_\_\_\_

Extra Equipment - Jars \_\_\_\_\_ Safety Joint \_\_\_\_\_ Extra Packer \_\_\_\_\_ Straddle \_\_\_\_\_ Hook Wall \_\_\_\_\_

Top Recorder No. 9198 Clock No. ele Depth 4935 Cir. Sub \_\_\_\_\_ Sampler \_\_\_\_\_

Bottom Recorder No. 7337 Clock No. 5463 Depth 4936 Insurance \_\_\_\_\_

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

Tool Operator DAVID MICHAELS

Approved By Mark Engelhardt

NO 14863

from [B] <u>43</u> P.S.I. to [C] <u>93</u> P.S.I.
[D] <u>1530</u> P.S.I.
from [E] <u>78</u> P.S.I. to [F] <u>74</u> P.S.I.
[G] <u>1508</u> P.S.I.

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# SUPERIOR TESTERS ENTERPRISES L.L.C.

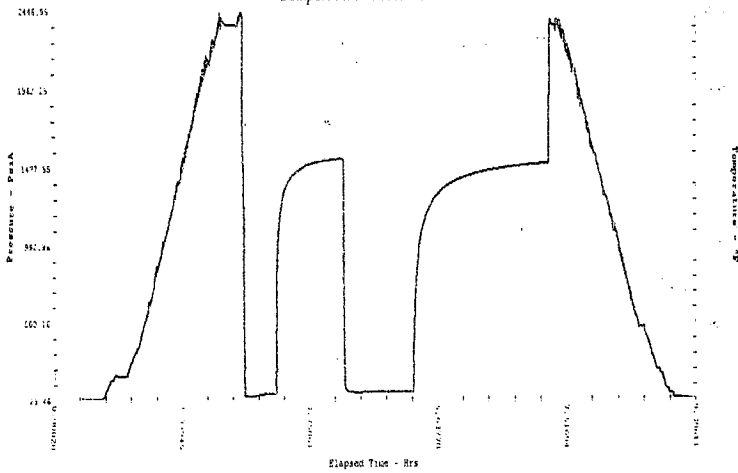
(800)792-6902

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530

Company: RITCHIE EXPLORATION INC  
 TWP. 27 RGE. 23W  
 Lease & Well No. CARSON17B #1 Test #: 2 Date: 11-12-06 SEC. 17

Temperature / Pressure Data



1	Initial Hydrostatic Pressure	2446
2	Initial Flow Pressure	43
3	Final Initial Flow Pressure	65
4	Initial Shut-In Pressure	1536
5	Initial Final Flow Pressure	78
6	Final Flow Pressure	74
7	Final Shut-In Pressure	1508
8	Final Hydrostatic Pressure	2398

Maximum Temperature 115

**GENERAL INFORMATION**

COMPANY NAME ..... RITCHIE EXPLORATION INC

TEST DATE ..... 11/12/06

LEASE AND WELL NUMBER ..... CARSON 17 B #1

SECTION-TOWN-RANGE ..... 17-27-23W

FORMATION TESTED ..... MISSISSIPPAN

STATE ..... KANSAS

DRILL STEM TEST NUMBER ..... 2

COUNTY ..... FORD

REPORT NUMBER ..... 14863

ELEVATION GROUND LEVEL ..... 2414

ELEVATION KELLY BUSHINGS ..... 2425

COMPANY REPRESENTATIVE ..... MIKE ENGELBRECHT TESTING ENGINEER ..... DAVID NICHOLS

**TOOL SETTING INFORMATION**

TEST INTERVAL (From) ..... 4922

TOP PACKER DEPTH ..... 4917

TEST INTERVAL (to) ..... 4939

BOTTOM PACKER DEPTH ..... 4922

ANCHOR LENGTH ..... 17

NUMBER OF PACKERS ..... 2

TOTAL DEPTH (ft) ..... 4939

PACKER SIZE ..... 6 3/4

HOLE SIZE ..... 7 7/8

**FLOW TIMES**

TOOL OPEN (from) ..... 4:35

TOOL OPEN (from) ..... 6:05

INITIAL OPEN TOOL OPEN (to) ..... 5:05

FINAL OPEN TOOL OPEN (to) ..... 7:05

DURATION (min.) ..... 30

DURATION (min.) ..... 60

TOOL CLOSED (from) ..... 5:05

TOOL CLOSED (from) ..... 7:05

INITIAL SHUT-IN TOOL CLOSED (to) ..... 6:05

FINAL SHUT-IN TOOL CLOSED (to) ..... 9:05

DURATION (min.) ..... 60

DURATION (min.) ..... 120

INITIAL FLOW GOOD BLOW BOTTOM BUCKET IN LESS 1 MIN

FINAL FLOW GOOD BLOW BOTTOM OF BUCKET IN LESS 1 MIN

Feet of Recovery	RESISTIVITY AT DEGREES	CHLORIDES	RECOVERY DESCRIPTION			
			% GAS	% OIL	% MUD	% WATER
1) 80	MUD				100	
2)						
3)						
4)						
5)						



# 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 17 B #1
TEST DATE .....	11/12/06	FORMATION TESTED .....	MISSISSIPPAN
SECTION-TOWN-RANGE .....	17-27-23W	DRILL STEM TEST NUMBER .....	2
STATE .....	KANSAS	REPORT NUMBER .....	14863
COUNTY .....	FORD	ELEVATION KELLY BUSHINGS .....	2425
ELEVATION GROUND LEVEL .....	2414	TESTING ENGINEER .....	DAVID NICHOLS
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>162 MILES ROUND TRIP FROM</b>	<b>GREAT BEND</b>	
TOP RECORDER DEPTH .....	91986	BOTTOM RECORDER DEPTH .....	91987
RECORDER NUMBER .....	4935	RECORDER NUMBER .....	4337

### WELL INFORMATION

DRILLING CONTRACTOR .....	VAL RIG #2	DRILL COLLAR LENGTH .....	
DRILL PIPE LENGTH .....	4902	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 .....		MUD WEIGHT #/GAL .....	9.1
WEIGHT PIPE I.D. ....	2.25	VISCOSITY .....	47
TOOL JOINT SIZE .....	4 1/2 X.H.	WATER LOSS .....	10.2
		CHLORIDES-PITS .....	8,800
		CHLORIDES-DST .....	

### COMMENTS

# SUPERIOR TESTERS ENTERPRISES L.L.C.

GREAT BEND, KANSAS

## GAS FLOW RATE

(800) 792-6902

#

STATE.....	KANSAS	Test Date .....	1/0/1900
COUNTY.....	FORD	Sec Town Range .....	17-27-23W
FIELD.....		Report Number .....	14863

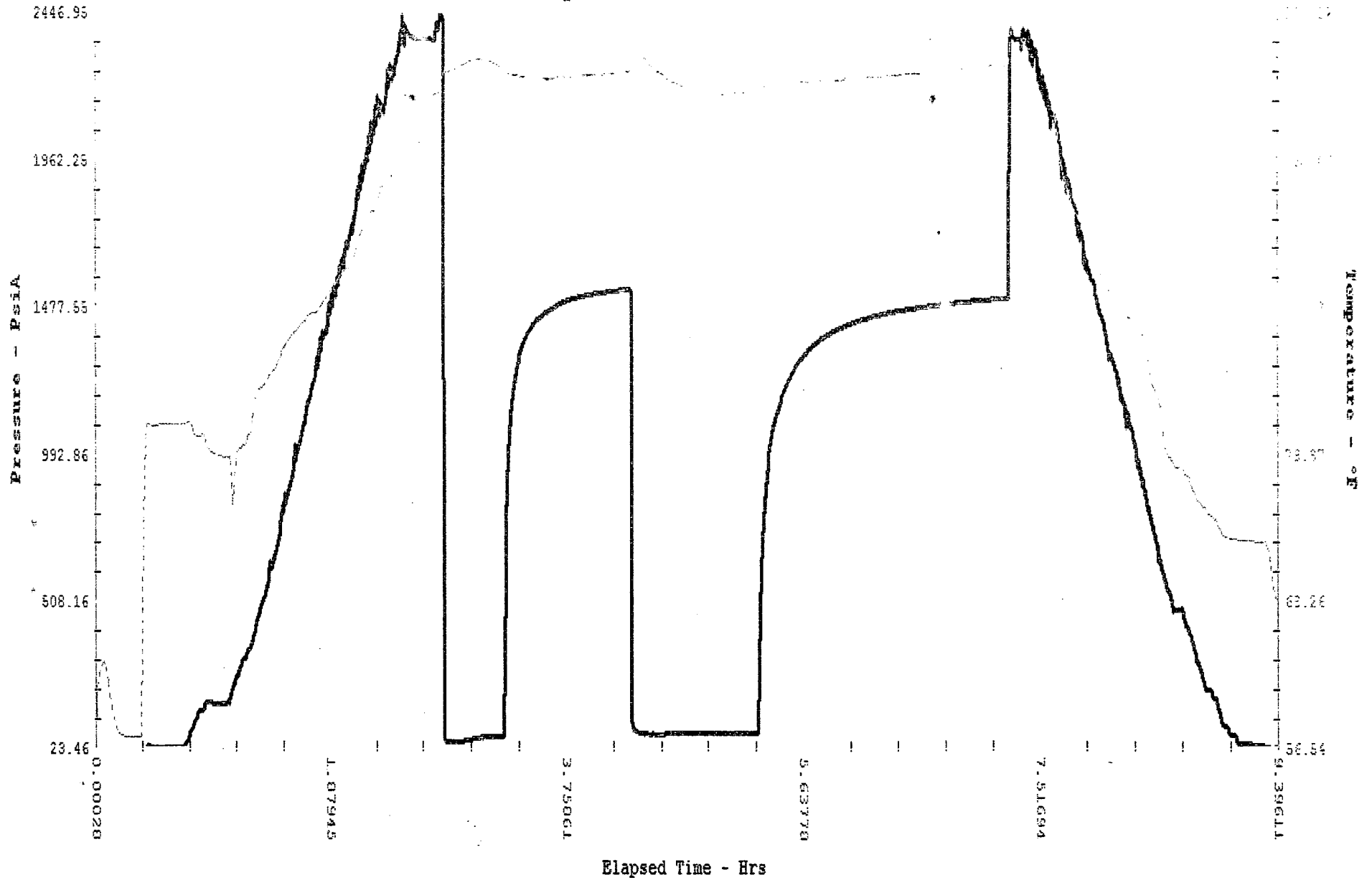
### Initial Flow

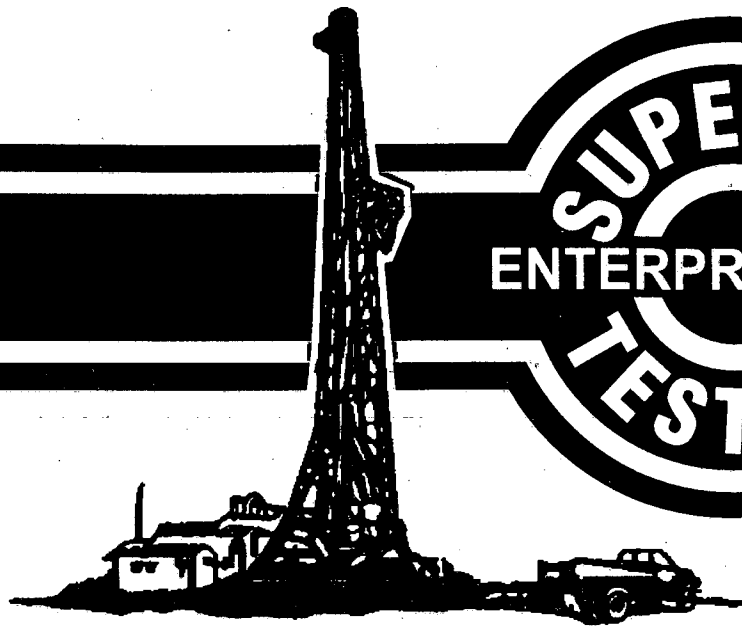
Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
OPEN TOOL	4:45PM	10	30			3/4	77.800
AT 4:35 PM	4:55	20	45			3/4	95.000
GAS TO SURFACE IN 18 MIN	5:05	30	60			3/4	110.000

### Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H2O Orifice Tester	PSI on Orifice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
OPEN TOOL	6:15	10		3		3/4	133.000
AT 6:05PM	6:25	20		2		3/4	108.000
	6:35	30		2		3/4	108.000
	6:45	40		2		3/4	76.000
	6:55	50		1		3/4	76.000
	7:05	60		1		3/4	76.000
GAS SAMPLE WAS TAKEN IN 2ND OPENING							

# Temperature / Pressure Data





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KCC MICHITA

# *Formation Testing Service Report*

# Superior Testers Enterprises, Inc.

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

(316) 792-6902

242511B

Date 11-11-06 Location 17-27-23W Elevation 2914 County Ford

Company Ritchie Exploration INC Number of Copies 5

Charts Mailed to PO 783188 Wichita KS 67278-3188

Drilling Contractor UAL Rig # 2

Length Drill Pipe 4717 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2 XH

Length Weight Pipe — I.D. Weight Pipe — Tool Joint Size —

Length Drill Collars — I.D. Drill Collars — Tool Joint Size —

Top Packer Depth 4732 Bottom Packer Depth 4737 Number of Packers 2 Packer Size 6 3/4

TESTED FROM 4737 TO 4761 ANCHOR LENGTH 24 TOTAL DEPTH 4761 Hole Size 7 7/8

LEASE & WELL NO. Carson 17B #1 FORMATION TESTED Pawnee TEST NO. 1

Mud Weight 8.95 Viscosity 47 Water Loss 9.6 Chlorides - Pits 7500 D.S.T. —

Maximum Temp. 110 °F Initial Hydrostatic Pressure (A) 2357 P.S.I. Final Hydrostatic Pressure (H) 2259 P.S.I.

Tool Open I.F.P. from 7:31 A m to 8:00 A m 30 min

Tool Closed I.C.I.P. from 8:01 A m to 8:46 A m 45 min

Tool Open F.F.P. from 8:46 A m to 9:31 A m 45 min

Tool Closed F.C.I.P. from 9:31 A m to 10:31 A m 60 min

Initial Blow Very weak Building Blow Built to 1 1/2 into water in 30 min

Final Blow weak Building Blow Built to Bottom of Bucket in 40 min

Total Feet Recovered 70 Feet Gravity of Oil — Corrected —

10 Feet of oil cut mud % Gas 5 % Oil 95 % Mud — % Water —

30 Feet of oil cut mud % Gas 35 % Oil 65 % Mud — % Water —

30 Feet of oil cut watery mud % Gas 5 % Oil 80 % Mud 15 % 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 —

Extra Equipment - Jars — Safety Joint — Extra Packer — Straddle — Hook Wall —

Top Recorder No. 91980 Clock No. etc Depth 4757 Cir. Sub — Sampler —

Bottom Recorder No. 4337 Clock No. 5463 Depth 4758 Insurance —

Price of Job —

Tool Operator DAVID Nichols

Approved By — No 14862

from [B] <u>48</u> P.S.I. to [C] <u>58</u> P.S.I.
[D] <u>1332</u> P.S.I.
from [E] <u>62</u> P.S.I. to [F] <u>73</u> P.S.I.
[G] <u>1294</u> P.S.I.

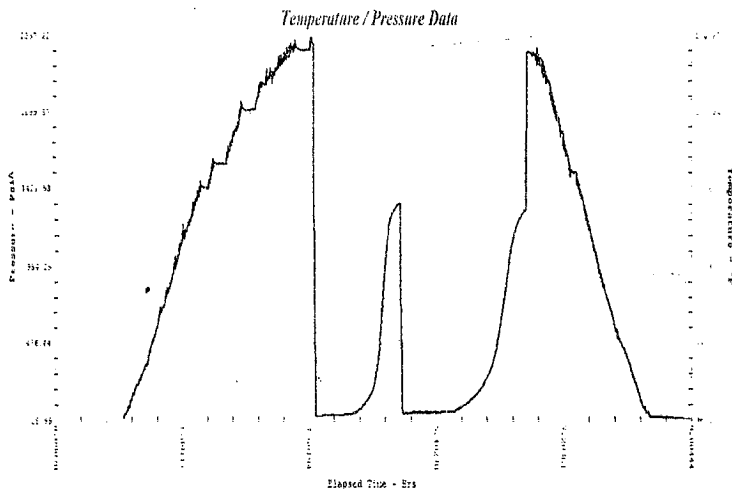
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# SUPERIOR TESTERS ENTERPRISES L.L.C.

1(800)792-6902

## DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530



1	Initial Hydrostatic Pressure	2357
2	Initial Flow Pressure	48
3	Final Initial Flow Pressure	58
4	Initial Shut-In Pressure	1332
5	Initial Final Flow Pressure	62
6	Final Flow Pressure	73
7	Final Shut-In Pressure	1294
8	Final Hydrostatic Pressure	2259

Maximum Temperature      116

### GENERAL INFORMATION

COMPANY NAME		..... RITCHIE EXPLORATION INC	
TEST DATE	..... 11/11/06	LEASE AND WELL NUMBER	..... CARSON 17B #1
SECTION-TOWN-RANGE	..... 17-27-23W	FORMATION TESTED	..... PAWNEE
STATE	..... KANSAS	DRILL STEM TEST NUMBER	..... 1
COUNTY	..... FORD	REPORT NUMBER	..... 14862
ELEVATION GROUND LEVEL	..... 2414	ELEVATION KELLY BUSHINGS	..... 2425
COMPANY REPRESENTATIVE	..... MIKE ENGELBRECHT	TESTING ENGINEER	..... DAVID NICHOLS

### TOOL SETTING INFORMATION

TEST INTERVAL (From)	..... 4737	TOP PACKER DEPTH	.....
TEST INTERVAL (to)	..... 4761	BOTTOM PACKER DEPTH	..... 5
ANCHOR LENGTH	..... 24	NUMBER OF PACKERS	..... 2
TOTAL DEPTH (ft)	..... 4761	PACKER SIZE	..... 6 3/4
		HOLE SIZE	..... 7 7/8

### FLOW TIMES

TOOL OPEN (from)	..... 7:31	TOOL OPEN (from)	..... 8:46
INITIAL OPEN TOOL OPEN (to)	..... 8:01	FINAL OPEN TOOL OPEN (to)	..... 9:31
DURATION (min.)	..... 30	DURATION (min.)	..... 45
TOOL CLOSED (from)	..... 8:01	TOOL CLOSED (from)	..... 9:31
INITIAL SHUT-IN TOOL CLOSED (to)	..... 8:46	FINAL SHUT-IN TOOL CLOSED (to)	..... 10:31
DURATION (min.)	..... 45	DURATION (min.)	..... 60

### INITIAL FLOW

VERY WEAK BUILDING BLOW BUILT TO 2 INCH INTO WATER IN 30 MIN

### FINAL FLOW

WEAK BUILDING BLOW BUILT TO BOTTOM OF BUCKET IN 40 MIN

Feet of Recovery	RESISTIVITY	AT	DEGREES	CHLORIDES			
	RECOVERY DESCRIPTION			% GAS	% OIL	% MUD	% WATER
1) 10	OIL CUT MUD				5	95	
2) 30	OIL CUT MUD				35	65	
3) 30	OIL CUT WATERY MUD				5	80	15
4)							
5)							

Company: RITCHIE EXPLORATION INC      Lease & Well No. CARSON B17#1      Test #: 1      Date: 11-11-06      SEC. 17  
 TWP. 27      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	LEASE AND WELL NUMBER .....	CARSON 17B #1
TEST DATE .....	11/11/06	FORMATION TESTED .....	PAWNEE
SECTION-TOWN-RANGE .....	17-27-23W	DRILL STEM TEST NUMBER .....	1
STATE .....	KANSAS	REPORT NUMBER .....	14862
COUNTY .....	FORD	ELEVATION KELLY BUSHINGS .....	2425
ELEVATION GROUND LEVEL .....	2414	TESTING ENGINEER .....	DAVID NICHOLS
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>162 MILES ROUND TRIP FROM</b>	<b>GREAT BEND</b>	
TOP RECORDER DEPTH .....	4757	BOTTOM RECORDER DEPTH .....	4758
RECORDER NUMBER .....	91986	RECORDER NUMBER .....	4337

### WELL INFORMATION

DRILLING CONTRACTOR .....	VAL RIG #2	DRILL COLLAR LENGTH .....	
DRILL PIPE LENGTH .....	4717	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 .....		MUD WEIGHT #/GAL .....	8.95
WEIGHT PIPE I.D. ....	2.25	VISCOSITY .....	47
TOOL JOINT SIZE .....	4 1/2 X.H.	WATER LOSS .....	9.6
		CHLORIDES-PITS .....	7,500
		CHLORIDES-DST .....	

### COMMENTS

# Temperature / Pressure Data

