

009-24,585

ORIGINAL

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

APT NO. 15-  
County Barton  
Approx. NE-SW-NW Sec. 30 Twp. 20 Rge. 11 X W

Operator: License # 31535

1825 Feet from S/W (circle one) Line of Section

Name: Petroleum Resources Ltd.

1075 Feet from E/W (circle one) Line of Section

Address P.O. Box 457

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

City/State/Zip Newkirk, OK 74647

Lease Name Soeken Well # 1

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

Field Name Kowaska

Operator Contact Person: Vernon C. Merrifield Jr

Producing Formation Arbuckle

Phone (401) 362-2525

Elevation: Ground 1817 KB 1826

Contractor: Name: Duke Drilling Co., Inc.

Total Depth 3480 3480' PBTD \_\_\_\_\_

License: 5929

Amount of Surface Pipe Set and Cemented at 265 Feet

Wellsite Geologist: Jim Craig

Multiple Stage Cementing Collar Used? Yes No

Designate Type of Completion:

If yes, show depth set \_\_\_\_\_ Feet

New Well  Re-Entry  Workover

If Alternate II completion, cement circulated from \_\_\_\_\_

Oil  SWD  SIOV  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc.)

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sz cnt.

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

Drilling Fluid Management Plan AIT I 3-19-96  
(Data must be collected from the Reserve Pit) RJ

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

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

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

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

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

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

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

Operator Name \_\_\_\_\_

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

10-14-94 10-19-94 10-19-94  
Spud Date Date Reached TD Completion Date

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

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

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]

RECEIVED 3-6-95  
STATE CORPORATION COMMISSION

Title President Date 2-28-95

Subscribed and sworn to before me this 28th day of Feb 19 95.

Notary Public [Signature]

Date Commission Expires July 8, 1996

K.G.C. OFFICE USE ONLY  
Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCCS  SWD/Rep  NEPA  
 KGS  Plug  Other  
(Specify)

Operator Name Petroleum Resources Ltd.

Lease Name Soeken

Well # 1

Sec. 30 Twp. 20 Rge. 11

East  
 West

County Barton

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
(Attach Additional Sheets.)  
Samples Sent to Geological Survey  Yes  No  
Cores Taken  Yes  No  
Electric Log Run  Yes  No  
(Submit Copy.)

Name	Top	Datum
Anhydrite	586	# 1240
Heebner	3002	-1176
Brown Lime	3134	-1308
Lansing	3148	-1322
Arbuckle	3382	-1556

List All E.Logs Run:  
Radiation Guard  
Dual Induction  
Compensated Density

CASING RECORD <input 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
Surface	12 1/4"	8-5/8"	20#	265'	60/40 poz	200	2% gel 3%cc.

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

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

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date of First, Resumed Production, SWD or Inj.		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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: \_\_\_\_\_



15.009.24585.0000

TICKET CONTINUATION

DUNCAN COPY

TICKET No. 741304

HALLIBURTON ENERGY SERVICES

CUSTOMER PETROLEUM RESOURCES LTD	WELL SOEKEN 1	DATE 10-19-94	PAGE 2	OF 2
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FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	WELL				UNIT PRICE	AMOUNT	
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M			
504-136		1			40/60 BOZMIX W2% GEL	160	sk			6.57	1051	20
507-277	516.00259	1			HALLIBURTON GEL BLENDED 4% ADD	6	sk			18.60	111	60
ORIGINAL												
					LOADED ON TRUCK #50308-SPLIT							
500-207		1			SERVICE CHARGE					1.35	230	85
500-306		1			MILEAGE CHARGE					95	134	71
					TOTAL WEIGHT							
					14,180							
					LOADED MILES							
					20							
					TON MILES							
					141.80							

No. B 246134

CONTINUATION TOTAL	1528.36
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# JOB SUMMARY

HALLIBURTON DIVISION 11111 LOUISIANA  
 HALLIBURTON LOCATION BRANT KS

17-004-24585-0000  
 BILLED ON TICKET NO. 741364

WELL DATA  
 FIELD \_\_\_\_\_ SEC. 30 TWP. 20 RNG. 11w COUNTY BRANT STATE KS

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
 FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
 INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
 COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
 PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
 BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
 MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			<u>578</u>	<u>KB</u>	<u>265</u>	
LINER						
TUBING						
OPEN HOLE				<u>265</u>	<u>1400</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

**MATERIALS**

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. °API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

**JOB DATA**

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-19</u> TIME <u>1715</u>	DATE <u>10-19</u> TIME <u>1915</u>	DATE <u>10-19</u> TIME <u>2040</u>	DATE _____ TIME _____

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>74621 V. Duff</u>	<u>40007</u>	<u>2355</u>
<u>61622 JBA</u>	<u>4410</u>	
<u>69726 J. Johnson</u>	<u>2000</u>	

DEPARTMENT CMT  
 DESCRIPTION OF JOB STK ORIGINAL  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG./ANN.   
 CUSTOMER REPRESENTATIVE X  
 HALLIBURTON OPERATOR [Signature] COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>160</u>	<u>F07</u>	<u>40/a</u>	<u>B</u>	<u>6% w/</u>	<u>1.07</u>	<u>125</u>

**PRESSURES IN PSI**

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET \_\_\_\_\_ REASON \_\_\_\_\_

**SUMMARY**

PRESLUSH: BBL.-GAL. \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL.-GAL. \_\_\_\_\_ PAD: BBL.-GAL. \_\_\_\_\_  
 TREATMENT: BBL.-GAL. \_\_\_\_\_ DISPL: BBL.-GAL. \_\_\_\_\_  
 CEMENT SLURRY: BBL.-GAL. 4753  
 TOTAL VOLUME: BBL.-GAL. \_\_\_\_\_

**REMARKS**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

CUSTOMER  
 LEASE  
 WELL NO.  
 JOB TYPE  
 DATE



**HALLIBURTON ENERGY SERVICES**

HAL-1908-N

15.009.24585.0000

DUNCAN COPY

TICKET

No.

741364 - 8

PAGE 1 OF 2

1. SERVICE LOCATIONS PAH #3	WELL/PROJECT NO. 1	LEASE SOEKEN	COUNTY/PARISH BARBO	STATE KS	CITY/OFFSHORE LOCATION	DATE 10-19-94	OWNER SAME
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR DUKE DRIL	RIG NAME/NO.	SHIPPED 400	DELIVERED TO WELLSIDE	ORDER NO.
3.	WELL TYPE 01	WELL CATEGORY 06	JOB PURPOSE 115 PTA	WELL PERMIT NO. 1500924585	WELL LOCATION 30-205-110		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
0DD-117		1			MILEAGE EDT	40	mi			275	110.00
090-910		1			PUMP CHARGE	2	hrs			37500	37500
032-503		1			PLUG WOOD	1	EA			75.00	75.00
ORIGINAL											

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		<b>SURVEY</b>		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					FROM CONTINUATION PAGE(S)
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					1528 3
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
DATE SIGNED 10-19-94	TIME SIGNED 1930	<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO		SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
<input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) John J. Anderson	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) [Signature]	HALLIBURTON OPERATOR/ENGINEER [Signature]	EMP # 74220	HALLIBURTON APPROVAL
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## TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.



# Duke Drilling Company, Inc.

# DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT 10-14 1994 RIG NO. 2

WELL OWNER \_\_\_\_\_ LEASE \_\_\_\_\_ WELL NO. \_\_\_\_\_

SECTION \_\_\_\_\_ TOWNSHIP \_\_\_\_\_ RANGE \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_  
IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	60
				DRILLER <u>Dion Vasquez</u>
				DERRICKMAN <u>Tom Larkin</u>
			<u>20-Gel</u> <u>2-Lime</u>	MOTORMAN <u>Randy Booth</u>
				HELPER <u>Robert Campbell</u>
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. _____ SIZE _____ MAKE _____ SERIAL NO. _____ SERIAL NO. _____	REMARKS: <u>Help Rig up. Lay water line mix mud</u>				

FROM	DRILLED TO	FEET DRILLED	FORMATION	
<u>0</u>	<u>226</u>		<u>TOPSOIL-SAND</u>	DRILLER <u>Frank Rome</u>
				DERRICKMAN <u>Leland Vasquez</u>
				MOTORMAN <u>Kevin Martin</u>
				HELPER <u>William Sanders</u>
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. _____ SIZE <u>12 1/4</u> MAKE <u>Keo</u> SERIAL NO. <u>HP11</u> SERIAL NO. <u>RET11</u> <u>1/4</u>	REMARKS: <u>6:45-1:40 Load Out Rig &amp; Rig Up &amp; Drill Kathle</u> <u>1:40-2:45 Drlg</u>				

FROM	DRILLED TO	FEET DRILLED	FORMATION	8
<u>226</u>	<u>265</u>		<u>Surface</u>	DRILLER <u>K. Clark (50 mi.)</u>
			<u>Raw 6 Hts. 24" 8 5/8"</u>	DERRICKMAN <u>D. Morgan</u>
			<u>Tally 252 set @ 265'</u>	MOTORMAN <u>T. Espinosa</u>
			<u>Removal: 1.156. w/200-51</u>	HELPER <u>R. Leckner</u>
			<u>60/40 po2</u>	HELPER
			<u>plug down @ 4:45 PM</u>	HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. _____ SIZE <u>12 1/4</u> MAKE <u>RT</u> SERIAL NO. <u>HP-11</u> SERIAL NO. _____ <u>H. + Hrs 1/2</u>	REMARKS: <u>2:45-3:00 Drlg., 3:00-3:15 Jet collar &amp; CTCH</u> <u>3:15-3:30 SHT &amp; out w/Bit, 3:30-4:15 Rig + run 8 5/8"</u> <u>4:15-4:25 Circ 8 5/8" 4:25-4:45 Cement 8 5/8"</u> <u>4:45-10:45 WAIT on cement + surface chrs</u>				



# Duke Drilling Company, Inc.

# DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

10-15, 19 94 RIG NO. 2

WELL OWNER Petroleum Resources LTD Lease Soekien

WELL NO. 1

SECTION 30 TOWNSHIP 20 RANGE 11 COUNTY Barton

STATE KS

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	60
265	759		Sand-Clay	DRILLER Diow Vasquez
6 <sup>30</sup>	500			DERRICKMAN Tom Larkin
	625			MOTORMAN Randy Booth
				HELPER Robert Campbell
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>10<sup>45</sup> to 12<sup>00</sup> W.O.C. 12<sup>00</sup> to 1<sup>00</sup> Wait on water</u>				
SIZE <u>7 7/8</u>	<u>1<sup>00</sup> to 1<sup>15</sup> D-1/2 Plug. 1<sup>15</sup> to 6<sup>45</sup> Drlg</u>				
MAKE <u>WM</u>					
SERIAL NO. <u>51 PF</u>					
SERIAL NO. <u>RR 472</u>					

FROM	DRILLED TO	FEET DRILLED	FORMATION	56
759	1457		Clay/shale	DRILLER Frank Rome
7 <sup>00</sup>	625 #		20-Gel	DERRICKMAN Leland Vasquez
1 <sup>00</sup>	700 #		1/2 Soda Ash	56 MOTORMAN Kevin Martin
2 <sup>00</sup>	725 #		1/2 Carbonex	HELPER William Sanders
			1/2 Coustic	HELPER
56"	380'			

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>2</u>	REMARKS: <u>Service Rig 6:45-7:25 Drlg</u>				
SIZE <u>7 7/8</u>	<u>7:25-8:05 W Valve Seats in 1st Pump 8:05-2:45 DRLG</u>				
MAKE <u>WM/D</u>					
SERIAL NO. <u>51 PF</u>					
SERIAL NO. <u>RR 1183586</u>					
<u>10' 1/2 Hrs.</u>					

FROM	DRILLED TO	FEET DRILLED	FORMATION	8
1457	1867		Shale & lime sltks	DRILLER K. Clark
			1-5 Ash	DERRICKMAN D. Morgan
4:00	750		1-Caus	MOTORMAN T. Espinosa
10:00	800		1-Carbonex	HELPER R. Leckwer (50m...)
			412-gel	HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. <u>#2</u>	REMARKS: <u>2:45-3:00 V Rig, 3:00-10:45 Drlg.</u>				
SIZE <u>7 7/8</u>	<u>Let # 1 @ 1554'</u>				
MAKE <u>WM</u>					
SERIAL NO. <u>51 PF</u>					
SERIAL NO. <u>RR</u>					
<u>B. J. Hrs 18</u>					

# Duke Drilling Company, Inc.

# DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

10-16-94 RIG NO. 2

WELL OWNER Petro Resources LTD LEASE Soekew

WELL NO. 1

SECTION 30 TOWNSHIP 20 RANGE 11 COUNTY Barlow

STATE KS

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
1867	2171		Lime/shale	Dion Vasquez
11 <sup>00</sup>	800 <sup>0</sup>		40-Gel	DERRICKMAN Tom Larkin
5 <sup>30</sup>	825 <sup>0</sup>		1-CA	60 MOTORMAN Randy Booth
			1-SA	HELPER Robert Campbell
			1-Q Broxin.	HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 2	REMARKS: 10 <sup>45</sup> to 11 <sup>15</sup> Drlg. 11 <sup>15</sup> to 11 <sup>30</sup> Clk Rig. 11 <sup>30</sup> to 12 <sup>00</sup> Drlg. 12 <sup>00</sup> to 12 <sup>15</sup> Jet #1 12 <sup>15</sup> to 5 <sup>30</sup> Drlg				
SIZE 7 7/8	5 <sup>30</sup> to 6 <sup>15</sup> Drop Survey + Bit trip @ 2171				
MAKE WJM					
SERIAL NO. RR					
SERIAL NO. 2114					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
2171	2400		Lime/shale	Frank Rome
9 <sup>00</sup>	800 <sup>0</sup>		20-Gel	DERRICKMAN Leland Vasquez
2 <sup>00</sup>	800 <sup>0</sup>		1/2 SA	56 MOTORMAN Kevin Martin
			1/2 Caust.	HELPER William Sanders
			1/2 Drlg	HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 3	REMARKS: Service Rig / 6:45-7:33 Finish Bit Trip @ 2171				
SIZE 7 7/8	7:33-2:45 DRLG				
MAKE WACD	8 Minutes - Tap Leak Shut On Mud Pump				
SERIAL NO. 51PF					
SERIAL NO. RR N92826					
6:14 hrs.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
2400			lime + shale	8 K. Clark (50 mi.)
4:00	850			8 D. Morgan
10:00	850			8 T. Espinosa
				8 R. Leckner
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. #3	REMARKS: 2:45-3:00 Drlg. 3:00-3:15 v Rig, 3:15-10:45 Drlg.				
SIZE 7 7/8	Jet # 1 @ 2456, 2671				
MAKE WJM					
SERIAL NO. 51PF					
SERIAL NO. RR N97826					
B. hrs 13					

# Duke Drilling Company, Inc.

# DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

10-17-94 RIG NO. 2

WELL OWNER Petroleum Resources LTD LEASE Soeken

WELL NO. 1

SECTION 30 TOWNSHIP 20 RANGE 11 COUNTY Bartow

STATE Ks

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
2655	2840		Lime/shale	60 Diow Vasquez
1100	850 #		20-Gel	DERRICKMAN Tom Larkin
500	800 #		1/2-S.A	MOTORMAN Randy Booth
600	750 #		1/2-CA	HELPER Robert Campbell
			1/2-ABroxin	HELPER
			Displaced @ 2793	HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 3	REMARKS: 10 <sup>45</sup> to 11 <sup>30</sup> Drlg.	11 <sup>30</sup> to 11 <sup>45</sup> Ck Rig.	11 <sup>45</sup> to 1 <sup>15</sup> Drlg.	1 <sup>15</sup> to 1 <sup>45</sup> Jet #2.	1 <sup>45</sup> to 3 <sup>00</sup> Drlg.
SIZE 7 7/8"	3 <sup>15</sup> Jet Celler.	3 <sup>15</sup> to 3 <sup>30</sup> Drlg.	3 <sup>30</sup> to 3 <sup>45</sup> Jet Wash	Suction pit.	3 <sup>45</sup> to 4 <sup>30</sup> Drlg.
MAKE WM					4 <sup>30</sup> to 4 <sup>45</sup> Jet #1.
SERIAL NO. 51PF					4 <sup>45</sup> to 6 <sup>45</sup> Drlg.
SERIAL NO. RR					
1972 HR					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
2840	3025		Lime/shale	Frank Rome
7 <sup>00</sup>	750 #			DERRICKMAN Leland Vasquez
7 <sup>15</sup>	775 #			MOTORMAN 56 Kevin Martin
				HELPER William Sanders
39"	30 1/2			HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 3	REMARKS: Service Rig		6:45-2:45 DRLG		
SIZE 7 7/8"					
MAKE W.M.C.D					
SERIAL NO. 51PF					
SERIAL NO. RR					
N92826					
163/411 CS					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3025	3212		lime + shale	8 K. Clark
4:00	800 #		1/2 S Ash	DERRICKMAN 8 D. Morgan
10:00	775 #		1/2 carbonox	MOTORMAN 8 R. Leckner (50 mi)
			1-CAUS.	HELPER 8 Ron Chapman
			95-gel (Pulling)	HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 3	REMARKS: 2:45-3:30 Drlg.	3:30-3:45	VRig,	3:45-10:45 Drlg.	
SIZE 7 7/8"					
MAKE WM					
SERIAL NO. 51-PF					
SERIAL NO. N92826					
B + H 3 1/2					

# Duke Drilling Company, Inc.

GREAT BEND, KANSAS

15.009.24585.0000  
DAILY DRILLING RECORD

FOR 24 HOURS ENDING AT MIDNIGHT

10-19, 19 94 RIG NO. 2

WELL OWNER Petroleum Resources LTD LEASE Soeken

WELL NO. 1

SECTION 30 TOWNSHIP 20 RANGE 11 COUNTY Barton

STATE KS

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3212	3341		Lime/Shale	Dion Vazquez
11 <sup>00</sup> 6 <sup>30</sup>	775 <sup>00</sup> 800 <sup>00</sup>			DERRICKMAN Tom Larkin
				MOTORMAN 60 Randy Booth
				HELPER Robert Campbell
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 3	REMARKS: 10 <sup>45</sup> to 12 <sup>15</sup> Doly	12 <sup>15</sup> to 12 <sup>30</sup> Ck Rig.			
SIZE 7/8	12 <sup>30</sup> to 6 <sup>45</sup> Doly.				
MAKE WM					
SERIAL NO. 51PF					
SERIAL NO. RR					
4212					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3341	3371		B/KC Arkuckle	Frank Rome
7 <sup>00</sup>	775 <sup>00</sup>			DERRICKMAN Leland Vasquez
			5-6el	MOTORMAN Kevin Martin
			1-Pol	HELPER 36 William Sanders
				HELPER
31"				

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO. 3	REMARKS: Service Rig 6:45-9:42 DRIG				
SIZE 7/8	9:42-10:48 CFS @ 3391	10:48-11:20 Short Trip 10 stands			
MAKE W/NCD	11:20-12:20 PTCM @ 3391	12:20-1:25 Drop Survey & Pull Bit for Dst #1			
SERIAL NO. 51PF	1:25-1:40 Pick Up Tool	1:40-2:30 In w/ Tool			
SERIAL NO. RR 192826	2:30-2:45 On Bottom w/ Tool				
4514 His.					

FROM	DRILLED TO	FEET DRILLED	FORMATION	DRILLER
3391	3405'		Dst #1	8 K. Clark (SO m.)
			(3383-3391) 8' Arch.	8 D. Morgan
			30-60-30-60	8 R. Leckner
			20' WATER - 1 cent mud	8 Ron Chapman
				HELPER

DRILLING BITS	CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	REMARKS: 2:45-5:30 On bottom testing, 5:30-6:20 Out				
SIZE	w/ Dst #1, 6:20-6:30 Break + foundation tool, 6:30-				
MAKE	8:00 IN w/ Bit, 8:00-8:20 (CFS @ 3391), 8:20-9:03				
SERIAL NO.	Doly, 9:03-10:03 CFS @ 3405', 10:03-10:45 Out w/				
SERIAL NO.	R.P.				

# Duke Drilling Company, Inc.

# DAILY DRILLING RECORD

GREAT BEND, KANSAS

FOR 24 HOURS ENDING AT MIDNIGHT

10-19-1994 RIG NO. 2

WELL OWNER Petroleum Resources LTD LEASE Soeken

WELL NO. 1

SECTION 30 TOWNSHIP 20 RANGE 11 COUNTY Barton

STATE KS

IF INJURED: SIGN AND DESCRIBE INJURY UNDER REMARKS

WE HAVE NOT BEEN INJURED THIS DAY

FROM	DRILLED TO	FEET DRILLED	FORMATION	60
3405	3450		Arbuckle	DRILLER Dion Vasquez
			Dst # 2 (3391-3405)	DERRICKMAN Tom Larkin
				MOTORMAN Randy Booth
				HELPER Robert Campbell
				HELPER

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	3	REMARKS: 10 <sup>1/2</sup> to 11 <sup>1/8</sup> Finish pulling bit. 11 <sup>1/8</sup> to 11 <sup>1/2</sup> make up tool. 11 <sup>1/2</sup> to 12 <sup>30</sup> FW w/tool. 12 <sup>30</sup> to 2 <sup>15</sup> OBW/DST #2. 2 <sup>15</sup> to 3 <sup>15</sup> Pull DST. 3 <sup>15</sup> to 3 <sup>30</sup> Lay down tool. 3 <sup>30</sup> to 4 <sup>15</sup> FW w/bit + break Circ. 4 <sup>15</sup> to 6 <sup>45</sup> D. log				
SIZE	7 7/8					
MAKE	WDM					
SERIAL NO.	SIPF					
SERIAL NO.	RR 47					

FROM	DRILLED TO	FEET DRILLED	FORMATION	56
3450	3480		Arbuckle	DRILLER Frank Rome
				DERRICKMAN Leland Vasquez
				MOTORMAN Kevin Martin
				HELPER William Sanders
				HELPER

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.	3	REMARKS: Service Rig 6:45-8:23 DRLG. 8:23-9:23 3 CFB @ 3480. 9:23-10:27 Out For Log. 10:27-2:45 LOGGING				
SIZE	7 7/8					
MAKE	WDM					
SERIAL NO.	SIPF					
SERIAL NO.	Karun 48724031					

FROM	DRILLED TO	FEET DRILLED	FORMATION	70
3480	RTD		Arb.	DRILLER K. Clark
3479	LTD		25 SX 3400'	DERRICKMAN D. Morgan
			25 SX @ 590'	MOTORMAN R. Leckner (50 m.)
			75 SX @ 300	HELPER R. Chapman
			10 SX @ 80'	HELPER
			15 SX RH	
			10 SX MH	
			60/40 6%	

DRILLING BITS		CASING RECORD: SIZE	BOTTOMED AT	CEMENT USED	DEFLECTION SURVEY	DEGREES OFF
RUN NO.		REMARKS: 2:45-4:30 Logging, 4:30-5:00 L & D. 5:00-6:15 Run collars in & lay down collars, 6:15-7:15 TFW plug stds, 7:15-11:20 Plug hole				
SIZE						
MAKE						
SERIAL NO.						
SERIAL NO.						



WESTERN TESTING CO., INC. 15.009.24585.0000

FORMATION TESTING TICKET No 20945

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 1826 KB Formation Arbuckle Hgt. Pay Ft.

District GREAT Bend Date 10-18-91 Customer Order No.

COMPANY NAME Petroleum Resources, LTD

ADDRESS P.O. Box 467 Newkirk, Oklahoma 74647

LEASE AND WELL NO. Soeken #1 COUNTY Barton STATE KS Sec. 30 Twp. 20 Rge. 11

Mail Invoice To SAME No. Copies Requested 109

Co. Name Address No. Copies Requested 109

Mail Charts To SAME Address No. Copies Requested 109

Formation Test No. 1 Interval Tested From 3383 ft. to 3391 ft. Total Depth 3391 ft.

Packer Depth 3378 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 3383 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3385 ft. Recorder Number 10270 Cap 4150

Bottom Recorder Depth (Outside) 3388 ft. Recorder Number 13550 Cap 4175

Below Straddle Recorder Depth Recorder Number Cap

Drilling Contractor Duke Drilling 1192 Drill Collar Length I. D. in.

Mud Type CHEMICAL Viscosity 63 Weight Pipe Length I. D. in.

Weight 9.5 Water Loss 8.8 cc. Drill Pipe Length 3257 I. D. 3.8 in.

Chlorides 2000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 921 Anchor Length 8 ft. Size 5 1/2 in.

Did Well Flow? Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7/8 in. Tool Joint Size 4 1/2 X H in.

Blow: IF - WEAK BLOW THROUGH 1/2 TO 3/4" FF - WEAK SURFACE BLOW died in 16 MIN

Recovered 15 ft. of SLIGHTLY OIL CONTAMUD 2% oil 98% mud

Recovered ft. of w/ show of clean oil on top of Tool

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 2 Remarks:

Time On Location 12:15 AM P.M. Time Pick Up Tool 1:30 AM P.M. Time Off Location AM P.M.

Time Set Packer(s) 2:30 AM P.M. Time Started Off Bottom 5:30 AM P.M. Maximum Temperature 101°

Initial Hydrostatic Pressure (A) 1651 P.S.I.

Initial Flow Period Minutes 30 (B) 41 P.S.I. to (C) 41 P.S.I.

Initial Closed In Period Minutes 60 (D) 520 P.S.I.

Final Flow Period Minutes 30 (E) 41 P.S.I. to (F) 41 P.S.I.

Final Closed In Period Minutes 60 (G) 62 P.S.I.

Final Hydrostatic Pressure (H) 1630 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By: Signature of Customer or his authorized representative

Signature of James R. Kray and Ray Schwach THANK

FIELD INVOICE

- Open Hole Test \$
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$



P. O. BOX 1599 PHONE (316) 262-5861  
WICHITA, KANSAS 67201

Elevation 1826 KB Formation Arbuckle Eff. Pay \_\_\_\_\_ Ft.

District GARTON Date 10-18-99 Customer Order No. \_\_\_\_\_

COMPANY NAME Petroleum Resources LTD

ADDRESS P.O. Box 467 Newkirk, Oklahoma, 74647

LEASE AND WELL NO. 506KIN #1 COUNTY BARTON STATE Ko Sec 30 Twp 20 Rge 11

Mail Invoice To SAME No. Copies Requested 209

Mail Charts To SAME Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested 209

Formation Test No. 2 Interval Tested From 3380 ft. to 3405 ft. Total Depth 3405 ft.

Packer Depth 3380 ft. Size 6 3/8 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Packer Depth 3385 ft. Size 6 3/8 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3397 ft. Recorder Number 10270 Cap 4150

Bottom Recorder Depth (Outside) 3400 ft. Recorder Number 13550 Cap 4175

Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap \_\_\_\_\_

Drilling Contractor Duke Drilling Drill Collar Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Mud Type Chemical Viscosity 33 Weight Pipe Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.

Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 3359 I. D. 3.8 in.

Chlorides 2000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 421 Anchor Length 20 ft. Size 5 1/2 in.

Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 XH in.

Blow: IF - weak blow throughout 14" to surface blow

FF - NO BLOW

Recovered 5 ft. of slightly oil cut mud

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Chlorides \_\_\_\_\_ P.P.M. Sample Jars used 1 Remarks: \_\_\_\_\_

Time On Location 10:45 AM Time Pick-Up Tool 11:25 AM Time Off Location \_\_\_\_\_ AM

Time Set Packer(s) 12:35 PM Time Started Off Bottom 2:15 PM Maximum Temperature 105

Initial Hydrostatic Pressure \_\_\_\_\_ (A) 1630 P.S.I.

Initial Flow Period \_\_\_\_\_ Minutes 30 (B) 31 P.S.I. to (C) 31 P.S.I.

Initial Closed In Period \_\_\_\_\_ Minutes 60 (D) 62 P.S.I.

Final Flow Period \_\_\_\_\_ Minutes 10 (E) 31 P.S.I. to (F) 31 P.S.I.

Final Closed In Period \_\_\_\_\_ Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.

Final Hydrostatic Pressure \_\_\_\_\_ (H) 1620 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By \_\_\_\_\_  
Signature of Customer or his authorized representative

Western Representative Ray Schwach Thank

FIELD INVOICE

Open Hole Test \$ \_\_\_\_\_  
Mistrun \$ \_\_\_\_\_  
Straddle Test \$ \_\_\_\_\_  
Jars \$ \_\_\_\_\_  
Selective Zone \$ \_\_\_\_\_  
Safety Joint \$ \_\_\_\_\_  
Standby \$ \_\_\_\_\_  
Evaluation \$ \_\_\_\_\_  
Extra Packer \$ \_\_\_\_\_  
Circ. Sub. \$ \_\_\_\_\_  
Mileage \$ \_\_\_\_\_  
Fluid Sampler \$ \_\_\_\_\_

# DOMBAR MUD INC.

24 HOUR PHONE NO. (316) 792-4337  
6101 W. 10th • P.O. BOX 1708 • GREAT BEND, KS 67530

A DISTRIBUTOR  
BAROID MUD  
PRODUCTS

15.009.24585.0000  
ENGINEERS TEST REPORT

DATE <u>10-15-94</u>	DEPTH <u>813</u>
SPUD DATE _____	PRESENT ACTIVITY <u>Dilig</u>

OPERATOR <u>PETROLEUM RESOURCES</u>	CONTRACTOR <u>Decker Drill</u>	RIG NO. <u>1</u>
REPORT FOR <u>Tim Craig</u>	REPORT FOR <u>J. Armstrong</u>	SECTION, TOWNSHIP, RANGE <u>30 20S 11W</u>
WELL NAME AND NO. <u># SOEKEN</u>	COUNTY <u>BARTON</u>	STATE <u>KS</u>

DRILLING ASSEMBLY			CASING		MUD VOLUME (BBL)		CIRCULATION DATA				
BIT SIZE <u>7 1/8</u>	TYPE	JET SIZE	SET @ <u>266</u>	SURFACE FT	HOLE <u>60</u>	PITS <u>400</u>	PUMP SIZE X IN. <u>6x14</u>	ANNULAR VEL. (FT/MIN)	DP <u>100</u>	DC <u>220</u>	
DRILL PIPE SIZE <u>4 1/2</u>	TYPE <u>XH</u>	LENGTH	SET @	INTERMEDIATE FT	TOTAL CIRCULATING VOLUME <u>460</u>		PUMP MAKE, MODEL	ASSUMED EFF %	CIRCULATION PRESSURE (PSI) <u>900</u>		
DRILL PIPE SIZE	TYPE	LENGTH	SET @	INTERMEDIATE FT	IN STORAGE	WEIGHT	BBL/STK <u>111</u>	STK/MIN <u>61</u>	BOTTOMS UP (MIN) <u>8</u>		
DRILL COLLAR SIZE <u>6</u>	LENGTH <u>420</u>	PRODUCTION OR LINER	SET @	FT	MUD TYPE		BBL/MIN <u>7.2</u>	GAL/MIN <u>302</u>	TOTAL CIRC. TIME (MIN) <u>78</u>		

Sample From	MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS		
	<input type="checkbox"/> F.L. <input type="checkbox"/> PIT	<input type="checkbox"/> F.L. <input type="checkbox"/> PIT	WEIGHT	VISCOSITY	FILTRATE
Time Sample Taken			BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR		
Flowline Temperature °F			<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		
Depth (ft)			RECOMMENDED TREATMENT		
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu. ft.) <input type="checkbox"/> Sp.G			<p>① Kill Flow Tank + Displacement @ 2800' - (80 BBL Flow / Control 1/2 volume 25 gal 1/2 gallon)</p> <p>② After Displacement Vis @ 42-45 - 48 fad w/ 1/2 gallon (80 BBL Flow / Control 1/2 gallon 25 gal 1/2 gallon)</p> <p>③ Control w/ 1/2 gallon w/ 1/2 gallon @ 40 line</p> <p>Keep Hole Full w/ 1/2 gallon</p>		
Funnel Viscosity (sec/qt) API @ °F					
Plastic Viscosity cP @ °F					
Yield Point (lb/100 ft²)					
Gel Strength (lb/100 ft²) 10 sec/10 min.					
Filtrate API (cm³/30 min.)					
Chloride (PPM)					
Cake Thickness (32nd in. API/HTHP)					
Solids Content (% by Vol.) <input type="checkbox"/> calculated <input type="checkbox"/> retort					
Liquid Content (% by Vol.) Oil/Water					
Sand Content (% by Vol.)					
Total Hardness (PPM)					
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter @ °F					
Alkalinity Mud (Pm)					
Alkalinity Filtrate (P1/M1)					
Alternate Alkalinity Filtrate (P1/P2)					

PRODUCT INVENTORY	Col	Cont	Sit	Cont	Head	Ac	Line
STARTING INVENTORY	260	12	12	12	30	3	4
RECEIVED							
USED LAST 24 HR							
CLOSING INVENTORY							
COST LAST 24 HR							

DAILY COST
CUMULATIVE COST

STATE OF KANSAS  
CONSERVATION COMMISSION  
MAR 06 1995  
WICHITA, KANSAS

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY DOMBAR MUD INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE <u>Ken Dobson</u>	HOME ADDRESS <u>6101 W. 10th</u>	TELEPHONE <u>792 5536</u>
MOBILE UNIT <u>316-792-2995</u>	WAREHOUSE LOCATION <u>6101 W. 10th</u>	TELEPHONE <u>792 4337</u>

GOLDEN BELT PRINTING, INC.



# DOMBAR MUD INC.

A DISTRIBUTOR  
BAROID MUD  
PRODUCTS

15.009.24585.0000  
ENGINEERS TEST REPORT

24 HOUR PHONE NO. (316) 792-4337  
6101 W. 10th • P.O. BOX 1708 • GREAT BEND, KS 67530

DATE 10-17-94 19 DEPTH 2995  
SPUD DATE \_\_\_\_\_ PRESENT ACTIVITY Daily

OPERATOR Petroleum Resources CONTRACTOR Duke Dels RIG NO. 2  
REPORT FOR Jim Craig REPORT FOR J. Mcmaster SECTION, TOWNSHIP, RANGE 30-20S-1W  
WELL NAME AND NO. #1 SOEKEN COUNTY Barton STATE Ks

DRILLING ASSEMBLY			CASING		MUD VOLUME (BBL)		CIRCULATION DATA		
BIT SIZE <u>7 1/2</u>	TYPE	JET SIZE	<u>8 1/2</u> SURFACE SET @ <u>266</u> FT.	HOLE <u>180</u>	PITS <u>400</u>	PUMP SIZE X IN. <u>6X4</u>	ANNULAR VEL. (FT/MIN) DP <u>100</u> DC <u>270</u>		
DRILL PIPE SIZE <u>4 1/2</u>	TYPE <u>NH</u>	LENGTH	INTERMEDIATE SET @ _____ FT.	TOTAL CIRCULATING VOLUME <u>580</u>		PUMP MAKE, MODEL	ASSUMED EFF %	CIRCULATION PRESSURE (PSI) <u>900</u>	
DRILL PIPE SIZE	TYPE	LENGTH	INTERMEDIATE SET @ _____ FT.	IN STORAGE	WEIGHT	BBL/STK <u>111</u>	STK/MIN <u>60</u>	BOTTOMS UP (MIN) <u>30</u>	
DRILL COLLAR SIZE <u>6</u>	LENGTH <u>420</u>		PRODUCTION OR LINER SET @ _____ FT.	MUD TYPE <u>Chemical</u>		BBL/MIN <u>7.2</u>	GAL/MIN <u>302</u>	TOTAL CIRC. TIME (MIN) <u>50</u>	

Sample From	MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS		
	<input type="checkbox"/> F.L. <input type="checkbox"/> PIT.	<input type="checkbox"/> F.L. <input type="checkbox"/> PIT.	WEIGHT	VISCOSITY	FILTRATE
Time Sample Taken	<u>1:30 PM</u>		BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		
Flowline Temperature °F			RECOMMENDED TREATMENT		
Depth (ft)	<u>2995</u>		<p>① Vis @ 46 Sec/ST to DST 42-45 to DST w/ Premix (80 BBL Flow) 1 Catic / 1 Sds # 25 gel 1 Carbonox</p> <p>② Control wt @ 9.2 ppg or less Keep Hole Full on trips</p> <p><i>HL</i></p>		
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu. ft.) <input type="checkbox"/> Sp.G	<u>8.0</u>				
Funnel Viscosity (sec/qt) API @ _____ °F	<u>39</u>				
Plastic Viscosity cP @ _____ °F	<u>15</u>				
Yield Point (lb/100 ft²)	<u>12</u>				
Gel Strength (lb/100 ft²) 10 sec/10 min.	<u>8.16</u>				
Filtrate API (cm³/30 min.)	<u>12.8</u>				
Chloride (PPM)	<u>2500</u>				
Cake Thickness (32nd in. API/HTHP)	<u>2</u>				
Solids Content (% by Vol.) <input type="checkbox"/> calculated <input type="checkbox"/> retort	<u>3.5</u>				
Liquid Content (% by Vol.) Oil/Water	<u>96.5</u>				
Sand Content (% by Vol.)	<u>2</u>				
Total Hardness (PPM)	<u>2</u>				
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter @ _____ °F	<u>11.0</u>				
Alkalinity Mud (Pm)					
Alkalinity Filtrate (P1/Ml)					
Alternate Alkalinity Filtrate (P1/P2)					

PRODUCT INVENTORY	<u>Gal C SA CA Had Pac Lin</u>							<u>Material 1381</u>	
STARTING INVENTORY	<u>260</u>	<u>12</u>	<u>12</u>	<u>12</u>	<u>30</u>	<u>3</u>	<u>4</u>	<u>TRUCK</u>	<u>200</u>
RECEIVED									
USED LAST 24 HR	<u>160</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>5</u>	<u>2</u>	<u>1</u>		
CLOSING INVENTORY	<u>100</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>25</u>	<u>3</u>	<u>3</u>		
COST LAST 24 HR	<u>1024</u>	<u>42</u>	<u>97</u>	<u>74</u>					

DAILY COST	<u>1581</u>
CUMULATIVE COST	<u>1581.00</u>

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REPRESENTATIVE Kenneth John HOME ADDRESS G Bend TELEPHONE 792-5536  
MOBILE UNIT 316 792-2595 WAREHOUSE LOCATION \_\_\_\_\_ TELEPHONE 792-4337

GOLDEN BELT PRINTING, INC.

# DIVIDAN MUD INC.

A DISTRIBUTOR  
BAROID MUD  
PRODUCTS

15.009.24585.0000  
ENGINEERS TEST REPORT

24 HOUR PHONE NO. (316) 792-4337  
6101 W. 10th • P.O. BOX 1708 • GREAT BEND, KS 67530

DATE 10-18-94 19      DEPTH 3391  
 SPUD DATE      PRESENT ACTIVITY CFS  
 RIG NO. 2  
 SECTION, TOWNSHIP, RANGE 30-205-11W  
 COUNTY Barton STATE Ks

OPERATOR Petroleum Resources CONTRACTOR Duke Dely  
 REPORT FOR Jim Craig REPORT FOR John Remreuter  
 WELL NAME AND NO. # 150EKEN

DRILLING ASSEMBLY			CASING		MUD VOLUME (BBL)		CIRCULATION DATA				
BIT SIZE <u>7 7/8</u>	TYPE	JET SIZE	8 7/8	SURFACE	HOLE	PITS	PUMP SIZE X IN.	ANNULAR VEL. (FT/MIN)	DP	DC	
DRILL PIPE SIZE <u>4 1/2</u>	TYPE <u>X4</u>	LENGTH	SET @ <u>266</u>	FT.	<u>204</u>	<u>400</u>	<u>6x4</u>	<u>100</u>	<u>270</u>		
DRILL PIPE SIZE	TYPE	LENGTH	SET @	FT.	TOTAL CIRCULATING VOLUME <u>6045</u>		PUMP MAKE, MODEL	ASSUMED EFF %	CIRCULATION PRESSURE (PSI)		<u>900</u>
DRILL COLLAR SIZE		LENGTH	SET @	FT.	IN STORAGE	WEIGHT	BBL/STK	STK/MIN	BOTTOMS UP (MIN)		<u>33</u>
<u>6</u>		<u>420</u>	PRODUCTION OR LINER	FT.	MUD TYPE <u>Chemical</u>		<u>.111</u>	<u>60</u>	TOTAL CIRC. TIME (MIN)		<u>53</u>
			SET @	FT.			<u>7.2</u>	<u>302</u>			
							BBL/MIN	GAL/MIN			

Sample From	MUD PROPERTIES		WEIGHT	MUD PROPERTY SPECIFICATIONS	
	<input type="checkbox"/> F.L. <input type="checkbox"/> PIT	<input type="checkbox"/> F.L. <input type="checkbox"/> PIT		VISCOSITY	FILTRATE
Time Sample Taken	<u>10AM</u>				
Flowline Temperature °F					
Depth (ft)	<u>3391</u>				
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu. ft.) <input type="checkbox"/> Sp.G	<u>9.5</u>				
Funnel Viscosity (sec/qt) API @ °F	<u>63</u>				
Plastic Viscosity cP @ °F	<u>16</u>				
Yield Point (lb/100 ft²)	<u>21</u>				
Gel Strength (lb/100 ft²) 10 sec/10 min.	<u>8.8</u>				
Filtrate API (cm³/30 min.)	<u>8.8</u>				
Chloride (PPM)	<u>2000</u>				
Cake Thickness (32nd in. API/HTHP)	<u>2</u>				
Solids Content (% by Vol.) <input type="checkbox"/> calculated <input type="checkbox"/> retort	<u>8.5</u>				
Liquid Content (% by Vol.) Oil/Water	<u>91.5</u>				
Sand Content (% by Vol.)					
Total Hardness (PPM)					
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter @ °F	<u>10.0</u>				
Alkalinity Mud (Pm)					
Alkalinity Filtrate (P1/M)					
Alternate Alkalinity Filtrate (P1/P2)					

BY AUTHORITY  OPERATOR'S WRITTEN  DRILLING CONTRACTOR  
 OPERATOR'S REPRESENTATIVE  OTHER

RECOMMENDED TREATMENT

1) Vis @ 48.50 Sealant  
(2000 BBL PIT Mud - Add 10 15 gal)  
2) Baroid WT @ 9.3 PPG  
3) Keep hole full on tops  
JK

ORIGINAL

PRODUCT INVENTORY Gel Cat SA Corp Hall Az

STARTING INVENTORY	<u>100</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>25</u>	<u>2</u>												
RECEIVED																		

DAILY COST

# DOMBAR MUD INC.

24 HOUR PHONE NO. (316) 792-4337  
6101 W. 10th • P.O. BOX 1708 • GREAT BEND, KS 67530

A DISTRIBUTOR  
BAROID MUD  
PRODUCTS

15.009.24585.0000  
ENGINEERS TEST REPORT

DATE <b>10-19-94</b>		DEPTH <b>3480</b>
SPUD DATE _____		PRESENT ACTIVITY <b>CF/Log</b>
OPERATOR <b>Petroleum Resources</b>	CONTRACTOR <b>Deke Delg</b>	RIG NO. <b>2</b>
REPORT FOR <b>Jim Craig</b>	REPORT FOR <b>John Armeuster</b>	SECTION, TOWNSHIP, RANGE <b>30-205-11W</b>
WELL NAME AND NO. <b>#1 SOEKEN</b>		COUNTY <b>BARTON</b> STATE <b>KS</b>

DRILLING ASSEMBLY			CASING		MUD VOLUME (BBL)		CIRCULATION DATA		
BIT SIZE <b>7 1/2</b>	TYPE	JET SIZE	SET @ <b>266</b>	FT	HOLE <b>204</b>	PITS <b>400</b>	PUMP SIZE X IN. <b>6X14</b>	ANNULAR VEL. (FT/MIN) DP <b>100</b> DC <b>270</b>	
DRILL PIPE SIZE <b>4 1/2</b>	TYPE <b>X4</b>	LENGTH	INTERMEDIATE SET @	FT	TOTAL CIRCULATING VOLUME <b>604</b>		PUMP MAKE, MODEL	ASSUMED EFF %	CIRCULATION PRESSURE (PSI) <b>900</b>
DRILL PIPE SIZE	TYPE	LENGTH	INTERMEDIATE SET @	FT	IN STORAGE	WEIGHT	BBL/STK <b>111</b>	STK/MIN <b>60</b>	BOTTOMS UP (MIN) <b>35</b>
DRILL COLLAR SIZE <b>6</b>	LENGTH <b>420</b>	PRODUCTION OR LINER SET @	FT	MUD TYPE <b>General</b>			BBL/MIN <b>7.2</b>	GAL/MIN <b>502</b>	TOTAL CIRC. TIME (MIN) <b>55</b>

Sample From	MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS		
	<input type="checkbox"/> F.L. <input type="checkbox"/> PIT	<input type="checkbox"/> F.L. <input type="checkbox"/> PIT	WEIGHT	VISCOSITY	FILTRATE
Time Sample Taken	<b>9:15 AM</b>		BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		
Flowline Temperature °F			RECOMMENDED TREATMENT		
Depth (ft)	<b>3480</b>		<p><b>① Vis to log - 48-50 section whenever 80 BBL pit mud - Add 15 gal</b></p> <p><b>Keep Hole Full on Turns</b></p> <p><b>Vera</b></p> <p><b>ORIGINAL</b></p>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu. ft.) <input type="checkbox"/> Sp.G	<b>7.4</b>				
Funnel Viscosity (sec/qt) API @ °F	<b>45</b>				
Plastic Viscosity cP @ °F	<b>19</b>				
Yield Point (lb/100 ft²)	<b>12</b>				
Gel Strength (lb/100 ft²) 10 sec/10 min.	<b>8.2</b>				
Filtrate API (cm³/30 min.)	<b>12 B</b>				
Chloride (PPM)	<b>5000</b>				
Cake Thickness (32nd in. API/HTHP)	<b>2</b>				
Solids Content (% by Vol.) <input type="checkbox"/> calculated <input type="checkbox"/> retort					
Liquid Content (% by Vol.) Oil/Water					
Sand Content (% by Vol.)					
Total Hardness (PPM)					
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter @ °F	<b>9.5</b>				
Alkalinity Mud (Pm)					
Alkalinity Filtrate (P1/M1)					
Alternate Alkalinity Filtrate (P1/P2)					

PRODUCT INVENTORY	Gal	Ca	SA	CaB	Hard	PAC										
STARTING INVENTORY	69	7	7	7	25	1										
RECEIVED																
USED LAST 24 HR																
CLOSING INVENTORY	69	7	7	7	25	1										
COST LAST 24 HR																

DAILY COST
CUMULATIVE COST
<b>2104-</b>

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REPRESENTATIVE <b>Kenneth Dohm</b>	HOME ADDRESS	TELEPHONE <b>792-5536</b>
MOBILE UNIT <b>316-793-2595</b>	WAREHOUSE LOCATION <b>Gr Bond</b>	TELEPHONE <b>792-4337</b>

GOLDEN BELT PRINTING, INC.

AAH 58' 15.009.24585.0000

COMPANY Petroleum Resources LTD FARM Soeken WELL NO. 1  
 SEC. 30 TWP. 20 RGE. 11 LOC. COUNTY Barton STATE KS  
 CONTRACTOR Duke Drilling Rig #2 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 X-Hole  
 REMARKS: 10' Samples SIZE PUMP LINERS 6" LENGTH STROKE 14

DATE 10-17-94

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3000</del>	<del>1:27</del>	<del>3</del>	
	30	3	
	32 1/2	2 1/2	
	35	2 1/2	
	38	3	
	41	3	
	43	2	
	45	2	
	46	1	
	47	1	
10	51	4	
	55	11	
	58	3	
	2:02	4	
	00	2	
	07	2	
	09	2	
	11	2	CONN
	13 1/2	2	
	17	2	
20	19	2	
	22	3	
	25	3	
	28	3	
	30	2	
	33	3	
	36	3	
	38	2	
	41	3	
	44	3	
30	47	3	
	49	2	
	52	3	
	55	3	
	58	2	
	3:01	3	
	4	3	
	5	1	
	7	1	
	8	1	
40	10	1	
	11	1	
	13	1	
	14	1	
	16	2	
	18	2	
	20	2	
	22	2	CONN
	3:40	1	
	42	2	
50	44	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3050</del>	<del>44</del>	<del>2</del>	
	46	2	
	48	2	
	49	1	
	51	2	Vis 39
	53	2	Wt. 9'
	54	1	
	56	1	
	58	2	
	4:00	2	
60	1	1	
	3	2	
	5	2	
	7	1	
	9	2	
	11	2	
	12	1	
	14	1	
	15	1	
	17	1	
70	19	2	
	20	1	
	22	2	
	23	1	
	25	2	
	27	1	
	29	2	
	30	1	
	32	2	
	33	1	CONN
80	34	2	
	39	1	
	41	1	
	42	1	
	44	1	
	45	1	
	47	2	
	49	2	
	50	1	
	52	2	
90	53	1	
	55	1	
	56	1	
	58	1	
	5:00	2	
	1	1	
	2	1	
	4	1	
	5	1	
	7	1	
3100	8	1	

1822

15.009.24585.0000

COMPANY Petroleum Resources LTD FARM Soeken WELL NO. 1

SEC. 30 TWP. 20 RGE. 11 LOC. COUNTY Barton STATE Ks.

CONTRACTOR Duke Drly Rig #2 SIZE HOLE 7 7/8" DRILL PIPE 4 1/2" V. H. 10

REMARKS: 10' dry SIZE PUMP LINERS 6" LENGTH STROKE 14" x 10

DATE 10-17-94 P.M.

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3100</del> <u>5:08</u>	<u>10</u>	<u>2</u>	
	<u>11</u>	<u>1</u>	
	<u>13</u>	<u>1</u>	
	<u>14</u>	<u>1</u>	
	<u>16</u>	<u>1</u>	
	<u>18</u>	<u>2</u>	
	<u>19</u>	<u>1</u>	
	<u>21</u>	<u>2</u>	
	<u>22</u>	<u>1</u>	
<u>10</u>	<u>25</u>	<u>2</u>	<u>CONN.</u>
	<del>27</del> <u>29</u>	<u>1</u>	
	<u>30</u>	<u>1</u>	
	<u>32</u>	<u>1</u>	
	<u>34</u>	<u>2</u>	
	<u>35</u>	<u>1</u>	
	<u>37</u>	<u>2</u>	
	<u>38</u>	<u>1</u>	
	<u>39</u>	<u>1</u>	
	<u>41</u>	<u>1</u>	
<u>20</u>	<u>42</u>	<u>1</u>	
	<u>44</u>	<u>2</u>	
	<u>45</u>	<u>1</u>	
	<u>47</u>	<u>2</u>	
	<u>48</u>	<u>1</u>	
	<u>50</u>	<u>2</u>	
	<u>51</u>	<u>1</u>	
	<u>52</u>	<u>1</u>	
	<u>54</u>	<u>1</u>	
	<u>55</u>	<u>1</u>	
<u>30</u>	<u>57</u>	<u>1</u>	
	<u>58</u>	<u>1</u>	
	<u>6:00</u>	<u>1</u>	
	<u>2</u>	<u>2</u>	
	<u>3</u>	<u>1</u>	
	<u>7</u>	<u>4</u>	
	<u>11</u>	<u>4</u>	
	<u>15</u>	<u>4</u>	
	<u>19</u>	<u>4</u>	
	<u>22</u>	<u>3</u>	
<u>40</u>	<u>26</u>	<u>3</u>	
	<u>30</u>	<u>4</u>	<u>CONN.</u>
	<del>33</del> <u>36</u>	<u>3</u>	
	<u>40</u>	<u>4</u>	
	<u>42</u>	<u>2</u>	
	<u>45</u>	<u>2</u>	
	<u>47</u>	<u>2</u>	
	<u>49</u>	<u>2</u>	
	<u>52</u>	<u>3</u>	
	<u>55</u>	<u>3</u>	
<u>50</u>	<u>59</u>	<u>4</u>	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3150</del> <u>59</u>	<u>7:03</u>	<u>4</u>	
	<u>6</u>	<u>3</u>	
	<u>10</u>	<u>3</u>	
	<u>13</u>	<u>3</u>	
	<u>16</u>	<u>3</u>	
	<u>20</u>	<u>4</u>	
	<u>23</u>	<u>3</u>	
	<u>27</u>	<u>3</u>	
	<u>30</u>	<u>3</u>	
<u>60</u>	<u>35</u>	<u>4</u>	<u>(15)</u>
	<u>39</u>	<u>4</u>	
	<u>43</u>	<u>4</u>	
	<u>47</u>	<u>4</u>	
	<u>51</u>	<u>3</u>	
	<u>54</u>	<u>3</u>	
	<u>56</u>	<u>2</u>	
	<u>59</u>	<u>3</u>	
	<u>8:01</u>	<u>2</u>	
	<u>2</u>	<u>1</u>	<u>(29)</u>
<u>70</u>	<u>5</u>	<u>3</u>	
	<u>9</u>	<u>3</u>	
	<u>13</u>	<u>4</u>	
	<u>16</u>	<u>3</u>	<u>CONN.</u>
	<del>21</del> <u>25</u>	<u>3</u>	
	<u>29</u>	<u>4</u>	
	<u>32</u>	<u>3</u>	
	<u>36</u>	<u>3</u>	
	<u>40</u>	<u>4</u>	<u>(17)</u>
	<u>43</u>	<u>3</u>	
<u>80</u>	<u>47</u>	<u>4</u>	
	<u>51</u>	<u>3</u>	
	<u>55</u>	<u>4</u>	
	<u>59</u>	<u>4</u>	
	<u>9:03</u>	<u>4</u>	
	<u>7</u>	<u>4</u>	
	<u>12</u>	<u>5</u>	
	<u>15</u>	<u>3</u>	
	<u>18</u>	<u>3</u>	
	<u>21</u>	<u>3</u>	<u>(30)</u>
<u>90</u>	<u>24</u>	<u>3</u>	
	<u>28</u>	<u>3</u>	
	<u>32</u>	<u>4</u>	
	<u>36</u>	<u>4</u>	
	<u>40</u>	<u>4</u>	
	<u>44</u>	<u>4</u>	
	<u>48</u>	<u>4</u>	
	<u>52</u>	<u>4</u>	
	<u>56</u>	<u>4</u>	
	<u>10:00</u>	<u>4</u>	
<u>3200</u>	<u>5</u>	<u>5</u>	<u>X0</u>

15.009.24585.0000

COMPANY Petroleum Resources FARM Loeben WELL NO. 1  
 SEC. 30 TWP. 20 RGE. 11 LOC. COUNTY Barton STATE Ks.  
 CONTRACTOR Duke Dalg # 2 SIZE HOLE 7 7/8" DRILL PIPE 4 1/2" x 11.6  
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 14X60

DATE 10-17-94 PM.

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3200</del>	<del>10:05</del>	<del>9</del>	
	13-	4-	
	16-	3	
	19	2	CONN.
	<del>23</del>	<del>24</del>	<del>2</del>
	28	4	
	31-	3-	
	36	4-	
	40	4	
10	43	3	
	47	4	
	51	4	
	55	4	
	11:00	5	
	5	5	
	9	4	
	13	4	
	18	5	
	21	3	
20	24	3	
	29	5	
	33	4	
	37	4	
	42	5	
	47	5	
	51	4	
	56	5	
	12:01	5	
	6	5	
30	11	5	
	13	2	
	16	3	
	21	5	
	24	3	CONN. Ok Rig
	<del>27</del>	<del>1 1/2</del>	
	32 1/2	2	
	35	2 1/2	
	37	2	
	39	2	
40	42	3	42 WIS
	44	2	9.3+WT
	45	1	
	46 1/2	1 1/2	
	48 1/2	2	
	52	3 1/2	
	56 1/2	4 1/2	
	1:00	3 1/2	
	4	4	
	7	3	
50	11	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3250</del>	<del>11:15</del>	<del>2</del>	
	16	3	
	20	4	
	23	3	
	27	4	
	31	4	
	35	4	
	39	4	
	42	3	
60	46	4	
	50	4	
	53	3	
	56	3	
	59	3	
	2:02 1/2	3 1/2	
	5	2 1/2	CONN
	<del>8</del>	<del>13</del>	<del>5</del>
	16	3	
	19	3	
70	22 1/4	3 1/2	
	26	3 1/2	
	30	4	
	33	3	
	37	4	
	41	4	
	45	4	
	49	4	
	52	3	
	55	3	
80	58 1/2	3 1/2	
	3:01	2 1/2	
	4	3	
	6	2	
	9	3	
	12	3	
	16	4	
	19	3	
	23	4	
	27	4	
98	31	4	
	34	3	
	36	2	
	39	3	
	42	3	
	45	3	
	49	4	
	52	3	CONN
	<del>54</del>	<del>57</del>	<del>3</del>
	4.1W	3	
3300	3	3	

ORIGINAL

COMPANY Petroleum Resources Ltd FARM Soeken WELL NO. 1  
 SEC. 30 TWP. 20 RGE. 11 LOC. COUNTY BARTON STATE Kansas  
 CONTRACTOR Duke Dalg - Rig #2 SIZE HOLE 7 7/8 DRILL PIPE 4 1/2 X Hole  
 REMARKS: SIZE PUMP LINERS 6" LENGTH STROKE 14"

DATE 10-18-94 AM

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3300</del>	<del>4:07</del>	<del>4</del>	
	11	4	
	15 1/2	4 1/2	
	20	4 1/2	
	24 1/2	4 1/2	
	28 1/2	4	
	33 1/2	5	
	38	4 1/2	
	43	5	
10	47 1/2	4 1/2	
	51	3 1/2	
	56	5	
	5:00	4	
	5	5	
	9	4	
	14	5	
	19	5	
	22	3	
	25	3	
20	28	3	<del>1526</del> <del>587</del> <del>739</del>
	30	2	
	32	2	
	34	2	
	37	3	
	40	3	
	43	3	
	47	4	
	51	4	Conn
	54 57	3	
30	6:00	3	Vis 43 wt 9.4
	4	4	
	8	4	
	12	4	
	16	4	
	20	4	
	23	3	
	27	4	
	31	4	
	36	5	
40	41	5	
	45	4	
	49	4	
	53	4	Visc. 40 - wt. 9.5
	58	5	
	7:01	3	
	04	3	
	07	3	
	10	3	
	13	3	
50	16	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
<del>3350</del>	<del>7:16</del>	<del>4</del>	
	20	4	
	23 1/2	3 1/2	
	27	3 1/2	
	30 1/2	3 1/2	
	34	3 1/2	
	38	4	
	42	4	
	46	4	
	50	4	CONN - ✓ R16
60	8:04	2	
	07	3	
	10 1/2	3 1/2	
	14	3 1/2	
	17 1/2	3 1/2	
	21	3 1/2	
	24 1/2	3 1/2	
	28 1/2	4	
	32 1/2	4	
	36	3 1/2	
70	39 1/2	3 1/2	
	43	3 1/2	
	47	4	
	51	4	
	54	3	
	57	3	
	9:00 1/2	3 1/2	
	03 1/2	3	
	06	2 1/2	
	08 1/2	2 1/2	
80	11 1/2	3	
	15	3 1/2	
	18 1/2	3 1/2	
	23	4 1/2	
	26	3	
	28 1/2	2 1/2	
	31	2 1/2	
	32	1	
	34	2	
	36	2	
90	38 1/2	2 1/2	
	41 1/2	3	CONN - CFS
	8:22 26	3-	
	29	3	
	32	3	
	36	4	
	39	3	
	41	2-	
	44	2-	
	46	2-	SK
3400	49	2-	





ORIGINAL

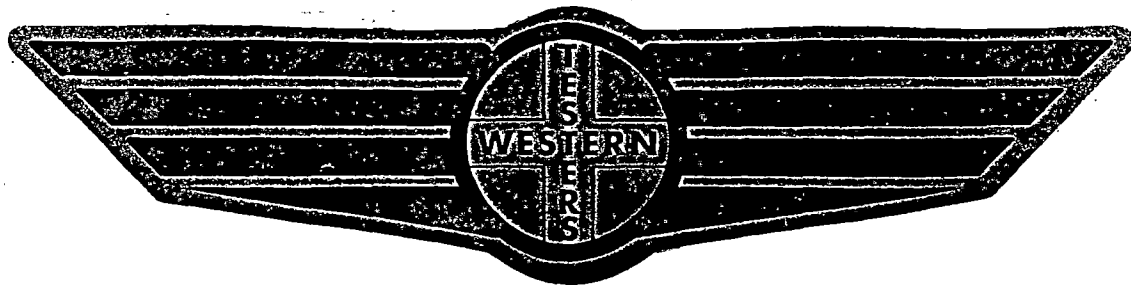
# FORMATION TEST REPORT

COMPANY PETROLEUM RESOURCES, LTD. LEASE & WELL NO. #1 SOEKEN

SFC. 30

TWP. 20S RGE. 11W TEST NO. 1

DATE 10/18/94



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 10/18/94  
CUSTOMER : PETROLEUM RESOURCES, LTD  
WELL : #1 TEST: 1  
ELEVATION: 1826KB  
SECTION : 30  
RANGE : 11W COUNTY: BARTON  
GAUGE SN#: 10270 RANGE : 4150  
TICKET : 20945  
LEASE : SOEKEN  
GEOLOGIST: CRAIG  
FORMATION: ARBUCKLE  
TOWNSHIP : 20S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3383.00 ft TO: 3391.00 ft TVD: 3391.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 3385.0 ft 3388.0 ft  
TEMPERATURE: 101.0  
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 3257.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 26.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 8.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH  
PACKER DEPTH: 3378.0 ft SIZE: 6.625 in  
PACKER DEPTH: 3383.0 ft SIZE: 6.625 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : DUKE RIG #2  
MUD TYPE : CHEMICAL  
WEIGHT : 9.500 ppg  
CHLORIDES : 2000 ppm  
JARS-MAKE : WTC  
DID WELL FLOW?: NO  
VISCOSITY : 63.00 cp  
WATER LOSS: 8.800 cc  
SERIAL NUMBER: 421  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW: WEAK BLOW THROUGHOUT, 1/2 INCH TO  
3/4 INCH. FINAL FLOW: WEAK SURFACE BLOW, DIED IN  
16 MINUTES.

ORIGINAL

## DST REPORT (CONTINUED)

## FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	2.0	0.0	0.0	98.0	SLIGHTLY OIL CUT MUD
0.0	0.0	0.0	0.0	0.0	W/SHOW OF CLEAN OIL ON
0.0	0.0	0.0	0.0	0.0	TOP OF TOOL.

## RATE INFORMATION

OIL VOLUME:	0.0042	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	5.0495	STB/D
MUD VOLUME:	0.2062	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.2104	STB			

## FIELD TIME &amp; PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1651.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	41.00	41.00
INITIAL SHUT-IN	60.00		520.00
FINAL FLOW	30.00	41.00	41.00
FINAL SHUT-IN	60.00		62.00

FINAL HYDROSTATIC PRESSURE: 1630.00

## OFFICE TIME &amp; PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1662.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	42.00
INITIAL SHUT-IN	57.00		517.00
FINAL FLOW	30.00	45.00	45.00
FINAL SHUT-IN	57.00		64.00

FINAL HYDROSTATIC PRESSURE: 1620.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/18/94	TICKET : 20945
CUSTOMER : PETROLEUM RESOURCES, LTD	LEASE : SOEKEN
WELL : #1 TEST: 1	GEOLOGIST: CRAIG
ELEVATION: 1826KB	FORMATION: ARBUCKLE
SECTION : 30	TOWNSHIP : 20S
RANGE : 11W COUNTY: BARTON	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	42.00	42.00
5.00	42.00	0.00
10.00	42.00	0.00
15.00	42.00	0.00
20.00	42.00	0.00
25.00	42.00	0.00
30.00	42.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	46.00	46.00	11.00
6.00	47.00	1.00	6.00
9.00	49.00	2.00	4.33
12.00	54.00	5.00	3.50
15.00	59.00	5.00	3.00
18.00	67.00	8.00	2.67
21.00	76.00	9.00	2.43
24.00	89.00	13.00	2.25
27.00	104.00	15.00	2.11
30.00	120.00	16.00	2.00
33.00	148.00	28.00	1.91
36.00	175.00	27.00	1.83
39.00	220.00	45.00	1.77
42.00	265.00	45.00	1.71
45.00	320.00	55.00	1.67
48.00	375.00	55.00	1.63
51.00	426.00	51.00	1.59
54.00	477.00	51.00	1.56
57.00	517.00	40.00	1.53

ORIGINAL

## PRESSURE TRANSIENT REPORT (CONTINUED)

## FINAL FLOW

Time (min)	Pressure	Delta P
0.00	45.00	45.00
5.00	45.00	0.00
10.00	45.00	0.00
15.00	45.00	0.00
20.00	45.00	0.00
25.00	45.00	0.00
30.00	45.00	0.00

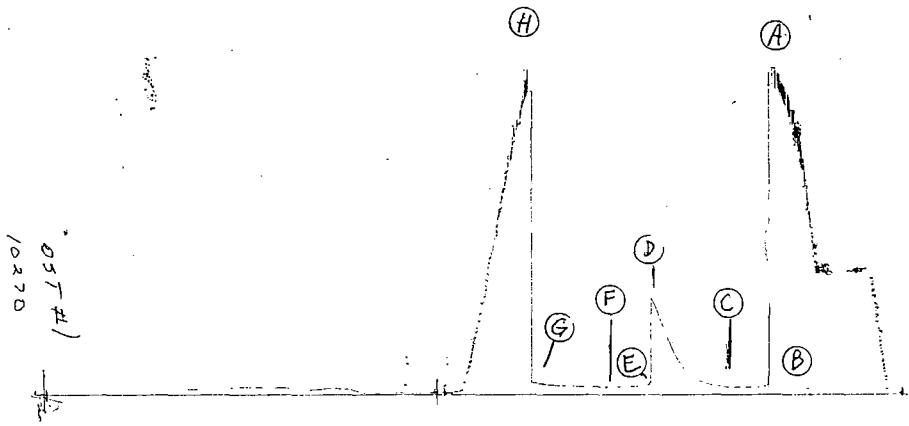
## FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	45.00	45.00	11.00
6.00	45.00	0.00	6.00
9.00	45.00	0.00	4.33
12.00	45.00	0.00	3.50
15.00	45.00	0.00	3.00
18.00	45.00	0.00	2.67
21.00	45.00	0.00	2.43
24.00	46.00	1.00	2.25
27.00	47.00	1.00	2.11
30.00	48.00	1.00	2.00
33.00	49.00	1.00	1.91
36.00	50.00	1.00	1.83
39.00	51.00	1.00	1.77
42.00	52.00	1.00	1.71
45.00	53.00	1.00	1.67
48.00	56.00	3.00	1.63
51.00	59.00	3.00	1.59
54.00	62.00	3.00	1.56
57.00	64.00	2.00	1.53

Jkt # 20945

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I

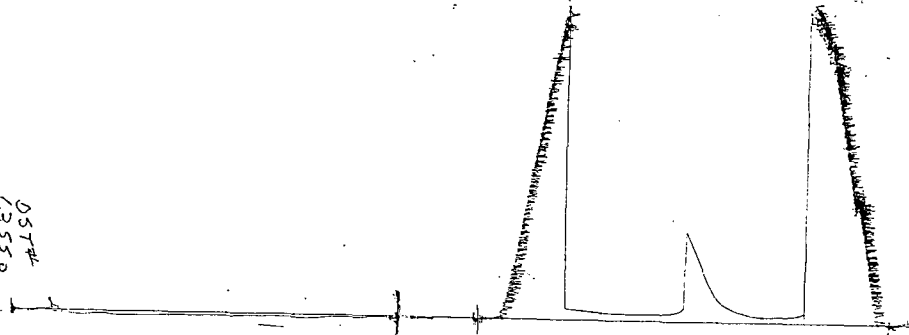


Inside Recorder

Jkt # 20945

0

OST #  
13550



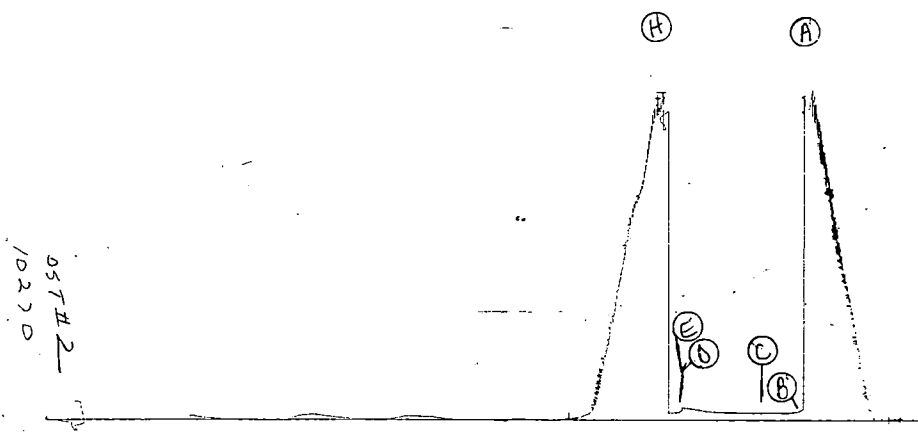
Outside Recorder

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Mkt # 20946

(5)

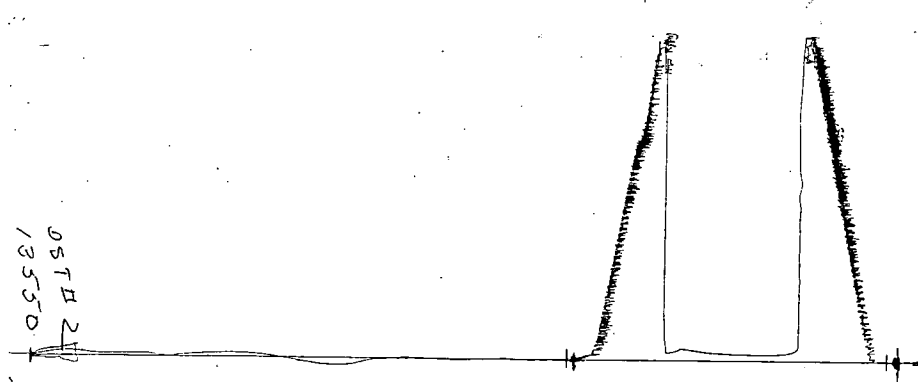
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Inside Recorder

Mkt # 20946

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Outside Recorder

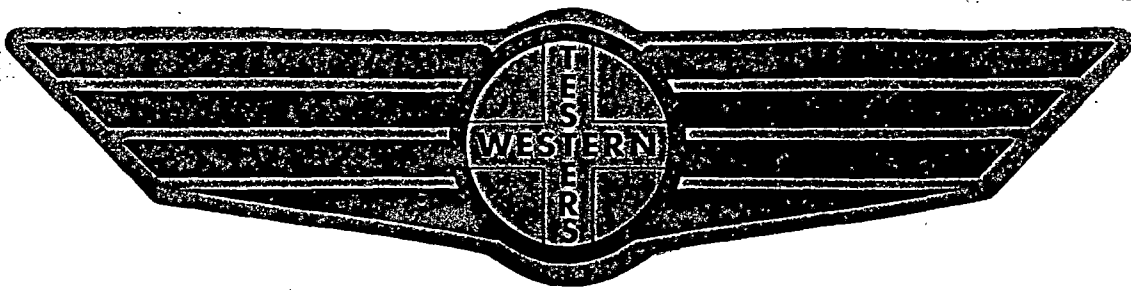
FORMATION

ORIGINAL

TEST

REPORT

COMPANY PETROLEUM RESOURCES, LTD. T.F.A.S.T. & W.F.I.J. NO. #1 SOEKEN



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

111 4 30 TWP 20S RGF. 11W T1ST NO. 2 DATE 10/18/94



DST REPORT

GENERAL INFORMATION

DATE : 10/18/94  
CUSTOMER : PETROLEUM RESOURCES, LTD  
WELL : #1 TEST: 2  
ELEVATION: 1826KB  
SECTION : 30  
RANGE : 11W COUNTY: BARTON  
GAUGE SN#: 10270 RANGE : 4150  
TICKET : 20946  
LEASE : SOEKEN  
GEOLOGIST: CRAIG  
FORMATION: ARBUCKLE  
TOWNSHIP : 20S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3385.00 ft TO: 3405.00 ft TVD: 3405.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 3397.0 ft 3400.0 ft  
TEMPERATURE: 105.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3359.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	26.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	20.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	3380.0 ft	SIZE:	6.625 in
PACKER DEPTH:	3385.0 ft	SIZE:	6.625 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : DUKE RIG #2  
MUD TYPE : CHEMICAL  
WEIGHT : 9.400 ppg  
CHLORIDES : 2000 ppm  
JARS-MAKE : WTC  
DID WELL FLOW?: NO  
VISCOSITY : 55.00 cp  
WATER LOSS: 8.800 cc  
SERIAL NUMBER: 421  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW: WEAK BLOW THROUGHOUT 1/4 INCH TO  
SURFACE BLOW.  
FINAL FLOW: NO BLOW.

ORIGINAL

## DST REPORT (CONTINUED)

## FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	1.0	0.0	0.0	99.0	SLIGHTLY OIL CUT MUD

## RATE INFORMATION

OIL VOLUME:	0.0007 STB	TOTAL FLOW TIME:	40.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	2.5247 STB/D
MUD VOLUME:	0.0694 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0701 STB		

## FIELD TIME &amp; PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1630.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	31.00
INITIAL SHUT-IN	60.00		62.00
FINAL FLOW	10.00	31.00	31.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 1620.00

## OFFICE TIME &amp; PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1677.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	42.00
INITIAL SHUT-IN	60.00		69.00
FINAL FLOW	10.00	39.00	39.00

FINAL HYDROSTATIC PRESSURE: 1662.00

**PRESSURE TRANSIENT REPORT**

**GENERAL INFORMATION**

DATE : 10/18/94	TICKET : 20946
CUSTOMER : PETROLEUM RESOURCES, LTD	LEASE : SOEKEN
WELL : #1 TEST: 2	GEOLOGIST: CRAIG
ELEVATION: 1826KB	FORMATION: ARBUCKLE
SECTION : 30	TOWNSHIP : 20S
RANGE : 11W COUNTY: BARTON	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

**INITIAL FLOW**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	42.00	42.00
5.00	42.00	0.00
10.00	42.00	0.00
15.00	42.00	0.00
20.00	42.00	0.00
25.00	42.00	0.00
30.00	42.00	0.00

**INITIAL SHUT IN**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	42.00	42.00	11.00
6.00	42.00	0.00	6.00
9.00	42.00	0.00	4.33
12.00	42.00	0.00	3.50
15.00	42.00	0.00	3.00
18.00	42.00	0.00	2.67
21.00	42.00	0.00	2.43
24.00	42.00	0.00	2.25
27.00	42.00	0.00	2.11
30.00	42.00	0.00	2.00
33.00	42.00	0.00	1.91
36.00	43.00	1.00	1.83
39.00	44.00	1.00	1.77
42.00	48.00	4.00	1.71
45.00	50.00	2.00	1.67
48.00	55.00	5.00	1.63
51.00	58.00	3.00	1.59
54.00	61.00	3.00	1.56
57.00	65.00	4.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)
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INITIAL SHUT IN (CONTINUED)
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<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	69.00	4.00	1.50

FINAL FLOW
------------

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	39.00	39.00
5.00	39.00	0.00
10.00	39.00	0.00

FINAL SHUT IN
---------------

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
No Data Entered			