

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

APT NO. 15- 199-202490000

Operator: License # 3581

County Wallace

Name: Red Oak Energy, Inc.

SW - SE - NW Sec. 30 Twp. 15 Rge. 41 X

Address P.O. Box 783140

2313 Feet from S (circle one) Line of Section

Wichita, KS 67278-3140

1423 Feet from E (circle one) Line of Section

City/State/Zip \_\_\_\_\_

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

Purchaser: Koch

Lease Name Pheins Well # 3-30

Operator Contact Person: Kevin C. Davis

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

Phone (316) 652-7373 10-02-98

Producing Formation Mississippian

Contractor: Name: Murfin Drilling Co.

Elevation: Ground 3808 KS 3817

License: 30606

Total Depth 5185 PSTD 5142

Wellsite Geologist: Scott Banks

Amount of Surface Pipe Set and Cemented at: 359 Feet

Designate Type of Completion  
 New Well  Re-Entry  Workover

Multiple Stage Cementing Collar Used?  Yes  No

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

If yes, show depth set 1917 Feet

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

If Alternate II completion, cement circulated from 1917

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

foot depth to Surface 250 sq. cmt.

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

Drilling Fluid Management Plan AH-2, 10-9-98 uc  
(Data must be collected from the Reserve Pit)

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

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

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

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

5/27/97 6/5/97 6/18/97  
Spud Date Date Reached TD Completion Date

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

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

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

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 Kevin C. Davis

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

Title President Date 9/28/98

Subscribed and sworn to before me this 28th day of September 19 98

Notary Public Victoria Davis

Date Commission Expires October 21, 2001



Operator Red Oak Energy, Inc.

Lease Name Phelps

Well # 3-30

Sec. 30 Twp. 15 Rge. 41  
 East  
 West

County Wallace

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 sheets if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy.)

List All E.Logs Run: CDN, DIL, CEMENT BOND

Log Name	Formation (Top)	Depth and Datum	
		Top	Datum
	BASE ANHY	2774	+1083
	CHEPOKEE	4742	- 925
	MORROW SHALE	4980	-1163
	UPPER MISS.	5005	-1188
	MORROW LIME	5086	-1269
	MISSISSIPPIAN	5154	-1337

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
Surface	12 1/4"	8 5/8"	24#	359	60/40 pos	260	3% cc 2% gel
Production	7 7/8"	4 1/2"	10.5#	5142	Class A	185	5% KCL-75% Hat-322

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Top Stage 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	Surf-1917	Midcon-2	250	3% cc .375% Flo/sx

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
	4	5005 - 5015		Natural

TUBING RECORD		Size	Set At	Packer At	Liner Run			
		2 3/8"	4955	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SVD or Inj.		Producing Method						
6/20/97		<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
	72		TSTM		0			

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  
5005'-5015'

# ALLIED CEMENTING CO., INC.

8904

Federal Tax I.D.#

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

SERVICE POINT:

ORIGINAL

15-199-20249-00-00 Oakley

DATE <u>5-27-97</u>	SEC. <u>30</u>	TWP. <u>15</u>	RANGE <u>41</u>	CALLED OUT	ON LOCATION <u>7:00 AM</u>	JOB START <u>8:45 PM</u>	JOB FINISH <u>9:00 PM</u>
LEASE <u>Phelps</u>	WELL # <u>3-30</u>	LOCATION <u>Sharon Springs - E-125-1/2W</u>	COUNTY <u>Wallace</u>	STATE <u>Kan</u>			
OLD OR NEW (Circle one)							

CONTRACTOR Murfin Dels Co #24

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 358'

CASING SIZE 8 5/8 DEPTH 358'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 42.39'

CEMENT LEFT IN CSG. 42'

PERFS.

DISPLACEMENT

OWNER Same

CEMENT

AMOUNT ORDERED 260 sks 60/40 per,  
3% cc - 2% gel, 1/2" # Flo-Seal

COMMON	<u>156 sks</u>	@	<u>6.10</u>	<u>951.60</u>
POZMIX	<u>104 sks</u>	@	<u>3.15</u>	<u>327.60</u>
GEL	<u>5 sks</u>	@	<u>9.50</u>	<u>47.50</u>
CHLORIDE	<u>8 sks</u>	@	<u>28.00</u>	<u>224.00</u>
Flo-Seal	<u>130 #</u>	@	<u>1.15</u>	<u>149.50</u>
		@		
		@		
		@		
		@		
HANDLING	<u>260 sks</u>	@	<u>1.05</u>	<u>273.00</u>
MILEAGE	<u>44 per sk/mile</u>			<u>780.00</u>
				<u>2753.20</u>
				<u>TOTAL</u>

EQUIPMENT

PUMP TRUCK CEMENTER Walt

# 191 HELPER Walt

BULK TRUCK

# 116 DRIVER Bill

BULK TRUCK

# DRIVER

REMARKS:

Land Plug on insert

Cement Did Circ

Hub

SERVICE

DEPTH OF JOB	<u>358'</u>		
PUMP TRUCK CHARGE			<u>445.00</u>
EXTRA FOOTAGE	<u>50'</u>	@	<u>4.10</u>
MILEAGE	<u>75 miles</u>	@	<u>2.85</u>
PLUG	<u>8 5/8 Surface</u>	@	<u>45.00</u>
		@	
		@	
		@	
		@	
			<u>TOTAL</u>
			<u>724.25</u>

CHARGE TO: Red Oak Energy

STREET 200 W Douglas St #51

CITY Wichita STATE Ks ZIP 67202

FLOAT EQUIPMENT

	<u>8 5/8</u>		
1- Baffle Plate	@		<u>135.00</u>
1- Centralizer	@		<u>61.00</u>
	@		
	@		
	@		
	@		
			<u>TOTAL</u>
			<u>196.00</u>

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 \_\_\_\_\_

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

SIGNATURE Laura McRae

PRINTED NAME



**HALLIBURTON ENERGY SERVICES**

HAL 4906-P

CHARGE TO: **RED OAK ENERGY**  
 ADDRESS: **WICHITA, KS**  
 CITY, STATE, ZIP CODE: **WICHITA, KS 67201**

**ORIGINAL**

CUSTOMER COPY

TICKET

No.

**196500 - 7**

PAGE 1 OF 2

15-199-20249-0000

SERVICE LOCATIONS <b>HAYS, KS</b>	WELL/PROJECT NO. <b>3-30</b>	LEASE <b>PHELTS</b>	COUNTY/PARISH <b>WALAKE</b>	STATE <b>KS</b>	CITY/OFFSHORE LOCATION	DATE <b>6-6-97</b>	OWNER <b>SAME</b>
TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <b>MURFEN DRILLING</b>	RIG NAME NO.	SHIPPED VIA <b>S3293</b>	DELIVERED TO <b>LOUISON</b>	ORDER NO.	
WELL TYPE <b>01</b>	WELL CATEGORY <b>01</b>	JOB PURPOSE <b>035</b>	WELL PERMIT NO. <b>15199202490000</b>	WELL LOCATION <b>30 - 153 - 41w</b>			
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M		
000-117		1			MILEAGE	240	ME	3.20	768.00
001-016		1			PUMP SERVICE - 1 <sup>ST</sup> STAGE	5179	FT	2184.00	2184.00
007-161		1			PUMP SERVICE - 2 <sup>ND</sup> STAGE	1917	FT	1705.00	1705.00
018-315		1			MUDFLUSH	500	GAL	75	3750.00
314-163		1			CUMFLEX II	2	GAL	30.50	61.00
019-241		1			ROTATING HEAD	1	JOB	300.00	300.00
26	847.6316	1			INSERT VALVE FLOAT SHOE	1	EA	314.00	314.00
27	815.1911	1			AUTO FILL UP UNIT	1	EA	52.00	52.00
40	806.60004	1			CENTRALIZERS	10	EA	56.00	560.00
71	813.56125	1			MULTI STAGE CEMENTER - ES TYPE "P"	1	EA	3066.00	3066.00
	813.16411	1			LATCH DOWN PLUG SET	1	EA	760.00	760.00
320	806.71415	1			CEMENT BASKETS	3	EA	108.00	324.00

**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

**X**

DATE SIGNED: **6-6-97** TIME SIGNED: **0600**  A.M.

do  do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVE WAS <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	10469.00
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			FROM CONTINUATION PAGE(S)	12667.8
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?				
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
	WELL DEPTH	ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	23136.8
TREE CONNECTION	TYPE VALVE	<input checked="" 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) <b>DAVID PHOXY</b>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <b>X [Signature]</b>	HALLIBURTON OPERATOR/ENGINEER <b>WAYNE WELSON</b>	EMP # <b>89377</b>	HALLIBURTON APPROVAL
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# ORIGINAL

JOB LOG 4239-5 15-199-20249-0000

TICKET #	196500	TICKET DATE	6-6-97
BDA / STATE	KANSAS	COUNTY	WALAKE
PSL DEPARTMENT	CEMENT		
CUSTOMER REP / PHONE	DAVE PAULY		
API / UWI #	15-199-20249-0000		
JOB PURPOSE CODE	035		

REGION	North America	NWA/COUNTRY	MUD CEMENT
MBU ID / EMP #	NA2131	EMPLOYEE NAME	WAYNE WILSON
LOCATION	B9277	COMPANY	WALAKE WILSON
TICKET AMOUNT	23136.81	WELL TYPE	DRY OAK
WELL LOCATION	SW SHARON SPRING, KS	DEPARTMENT	01
LEASE WELL #	0117	SEC / TWP / RNG	CEMENT

HES EMP NAME/EMP#(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)   HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)   HRS
Wilson B9277 3.20			
A-H E1609 30 - 150 - 11.00			
F-JK J0763			
S-ME J0482			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbp	Csg	
	1900							CALLED OUT
	2345							ON LOCATION - DISCUSS JOB PROCEDURE
	0715							DROP BALL - BREAK CIRCULATION - MUD PUMP - ROTATE
1	0808	5	12		✓	250		PUMP MUDFLUSH
	0811	5	20		✓	250		PUMP CLAYE II PREFLUSH
	0816	6	39'h		✓	200		MIX CEMENT
	0825							WASH OUT PUMP & LINES
	0827							DROP 1ST STAGE PLUG
	0832	6'h	0		✓	450		DISPLACE PLUG - (51-1120 x 30.8-MUD)
	0845		81.8			1500		PLUG DOWN - PST UP W/CHINA PLUG
	0846					1500		RELEASE PST HELD
	0855							DROP D.V. OPENING PLUG
	0910							LOAD 2ND STAGE PLUG
								OPEN D.V. TOOL - MUD PUMP
								CIRCULATE WELL - MUD PUMP - 4 HRS
1	1255	5	5		✓	200		PUMP 1120 SPACER
	1256	7	159.4		✓	300		MIX CEMENT
	1324							WASH OUT PUMP & LINES
	1325							RELEASE 2ND STAGE CLOSING PLUG
	1325	6	0		✓	400		DISPLACE PLUG
	1330		30.5			1750		PLUG DOWN - PST UP - CLOSE D.V. TOOL
	1332					1750		RELEASE PST - HELD
								CIRCULATED 40 SKS CEMENT TO PT.
								WASH UP
								PACK UP
	1500							JOB COMPLETE

THANK YOU

WAYNE, DAVE, DUSTY, SCOTT

CENTRALDERS - 1, 3, 5, 7, 9, 11, 76, 78, 85, 88  
 BASKETS - 77, 80, 113  
 DV TOOL TOP ST # 77 @ 1917'

**WELL NAME:**  
**COMPANY:**  
**LOCATION:**

Phelps #3-30  
Red Oak Energy  
30-15S-41W

Wallace County Kansas *15-199-20249-00-00*

**DATE:**

06/09/97

**ORIGINAL**

15-199-20249-00-00

TRILOBITE TESTING L.L.C.

OPERATOR : Red Oak Energy DATE 6/5/97  
 WELL NAME: Phelps #3-30 KB 3817.00 ft TICKET NO: 9940 DST #1  
 LOCATION : 30-15S-41W Wallace Co KS GR 3808.00 ft FORMATION: Morrow  
 INTERVAL : 4952.00 To 5013.00 ft TD 5180.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11057	11057	11058			PF Fr. 0540 to 0610 hr
SI 45 Range(Psi )	4500.0	4500.0	4475.0	0.0	0.0	IS Fr. 0610 to 0655 hr
SF 60 Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 0655 to 0755 hr
FS 60 Depth(ft )	4956.0	4956.0	5177.0	0.0	0.0	FS Fr. 0755 to 0855 hr

	Field	1	2	3	4	
A. Init Hydro	2423.0	2412.0	0.0	0.0	0.0	T STARTED 0145 hr
B. First Flow	493.0	486.0	0.0	0.0	0.0	T ON BOTM 0535 hr
B1. Final Flow	438.0	738.0	0.0	0.0	0.0	T OPEN 0540 hr
C. In Shut-in	950.0	941.0	0.0	0.0	0.0	T PULLED 0855 hr
D. Init Flow	794.0	790.0	0.0	0.0	0.0	T OUT 1605 hr
E. Final Flow	928.0	915.0	0.0	0.0	0.0	
F. Fl Shut-in	962.0	957.0	0.0	0.0	0.0	
G. Final Hydro	2400.0	2361.0	0.0	0.0	0.0	
Inside/Outside	0	0	I			

TOOL DATA-----

Tool Wt. 8000.00 lbs  
 Wt Set On Packer 38000.00 lbs  
 Wt Pulled Loose 90000.00 lbs  
 Initial Str Wt 74000.00 lbs  
 Unseated Str Wt 81000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.88 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.80 in  
 D.C. Length 418.00 ft  
 D.P. Length 4718.00 ft

RECOVERY

Tot Fluid 2840.00 ft of 418.00 ft in DC and 2422.00 ft in DP  
 1864.00 ft of Clean gassy oil 60%gas 40%oil  
 558.00 ft of Slight mud cut gassy oil 30%gas 60%oil 10%mud  
 418.00 ft of Mud cut gassy oil 50%gas 40%oil 10%mud  
 0.00 ft of  
 0.00 ft of Sampler Recovery  
 0.00 ft of Gas 1.3 cu.Ft.  
 0.00 ft of OIL 4000 ml  
 0.00 ft of Pressure 340 psi  
 SALINITY 0.00 P.P.M. A.P.I. Gravity 38.80

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	52.00 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop	

BLOW DESCRIPTION

Initial Flow:  
 Bottom of bucket in 30 seconds

Initial Shutin:  
 Gas to surface in 3 minutes into shutin. Bled off throughout

Final Flow:  
 Bottom of bucket @ open Gauging Gas

Final Shutin:  
 Bled off blow throughout

Amt. of fill	0.00 ft
Btm. H. Temp.	145.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Shane McBride
Co. Rep.	Scott Banks
Contr.	Murfin
Rig #	24
Unit #	
Pump T.	

SAMPLES:  
 SENT TO:

Test Successful: Y



15-199-20249-00-00

GAS RECOVERY

-----

COMPANY: Red Oak Energy

DATE: 6/5/97

WELL NAME: Phelps #3-30

KB Elev: 3817.00 ft TICKET #9940 DST #1

WELL LOCATION: 30-15S-41W Wallace Co KS

GR Elev: 3808.00 ft FORMATION: Morrow

INTERVAL Fr.: 4952.00 To 5013.00 T.D.: 5180.00 ft TEST TYPE: CONV

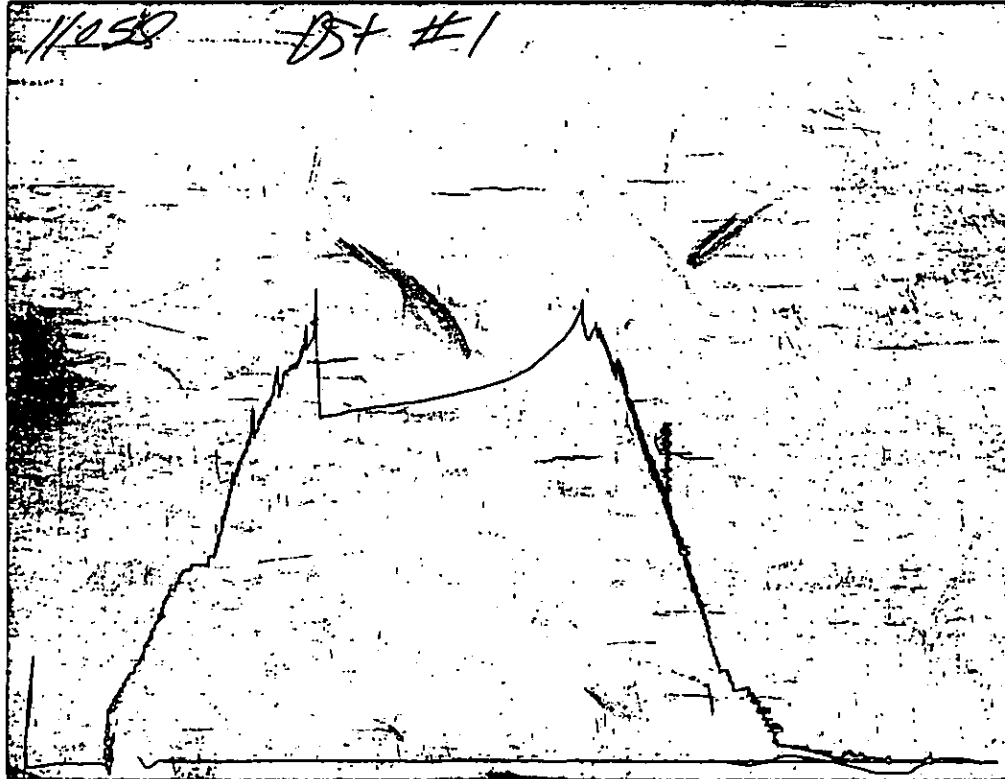
GAS RECOVERY MEASURED WITH Merla

\*\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.50	0	1	7940.0
10	0.50	0	1	7940.0
15	0.50	0	1	7940.0
20	0.50	0	1	7420.0
25	0.50	0	1	7420.0
30	0.50	0	1	7940.0
35	0.50	0	1	7940.0
40	0.50	0	1	7940.0
45	0.50	0	1	8430.0
50	0.50	0	1	8430.0
55	0.50	0	1	7940.0
60	0.50	0	1	7940.0



CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

15-199-20249-08-00



# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 9940 Date 6-5-97  
 Company Name Red Oak Energy  
 Lease Phelps #3-30 Test No. 1  
 County Wallace KS Sec. 30 Twp. 15 Rng. 41

### SAMPLER RECOVERY

Gas 1.3 Cubic FT  
 Oil 4,000 ML  
 Mud - ML  
 Water - ML  
 Other - ML  
 Pressure 3410 PSI  
 Total 4,000 ML

### PIT MUD ANALYSIS

Chlorides 5,700 ppm.  
 Resistivity 1.18 ohms @ 68 F  
 Viscosity 52  
 Mud Weight 9.3  
 Filtrate 9.2  
 Other LCM #1

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.  
 Gravity 37.8 corrected @ 60 F

### PIPE RECOVERY

TOP  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.

MIDDLE  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.

BOTTOM  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides \_\_\_\_\_ ppm.

15-199-20249-00-00

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No. 9940

Well Name & No. <u>Phelps 3-30</u>	Test No. <u>1</u>	Date <u>6-5-97</u>
Company <u>Red Oak Energy</u>	Zone Tested <u>marrow</u>	
Address <u>200 W. Douglas #510 Wichita KS 67202</u>	Elevation <u>2817</u> KB <u>3808</u> GL	
Co. Rep / Geo. <u>Scott</u>	Cont. <u>Muckin 24</u>	Est. Ft. of Pay <u>    </u> Por. <u>    </u> %
Location: Sec. <u>30</u> Twp. <u>15</u> Rge. <u>41</u>	Co. <u>Wallace</u>	State <u>KS</u>
No. of Copies <u>Nona</u> Distribution Sheet (Y, N) <u>H</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u>    </u>

Interval Tested <u>4952' - 5013'</u>	Initial Str Wt./Lbs. <u>7,000</u>	Unseated Str Wt./Lbs. <u>81,000</u>
Anchor Length <u>61'</u>	Wt. Set Lbs. <u>38,000</u>	Wt. Pulled Loose/Lbs. <u>90,000</u>
Top Packer Depth <u>4947'</u>	Tool Weight <u>8,000</u>	
Bottom Packer Depth <u>4952' - 5013'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>5180'</u>	Wt. Pipe Run <u>    </u>	Drill Collar Run <u>418' 11 90</u>
Mud Wt. <u>9.3</u> LCM # <u>1</u> Vis. <u>52</u> WL <u>9.2</u>	Drill Pipe Size <u>4 1/2 x 11</u>	Ft. Run <u>4718'</u>
Blow Description <u>B.O.B 1/2 min.</u>		

*IST: GAS to Surface 3 mins into Shut in. Bleed off throughout*  
*F.F. B.O.B. @ open gauging gas.*  
*F.S.I. Bleed off below throughout*

Recovery — Total Feet	GIP <u>Gas to Surface</u>	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>1864'</u>	Feet Of <u>clean gas, air</u>	<u>60</u>	<u>418'</u>	<u>60</u>	<u>90</u>	<u>    </u>	<u>    </u>
Rec. <u>558'</u>	Feet Of <u>slit MCGO</u>	<u>30</u>	<u>    </u>	<u>30</u>	<u>60</u>	<u>    </u>	<u>10</u>
Rec. <u>418'</u>	Feet Of <u>MCGO</u>	<u>50</u>	<u>    </u>	<u>50</u>	<u>40</u>	<u>    </u>	<u>10</u>
Rec. <u>    </u>	Feet Of <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>
Rec. <u>    </u>	Feet Of <u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>

BHT 145° °F Gravity 40 °API D@ 72 °F Corrected Gravity 38.8 °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 5,700 ppm System

(A) Initial Hydrostatic Mud	<u>2423</u> PSI	Recorder No. <u>11057</u>	T-Started <u>01:45 Am.</u>
(B) First Initial Flow Pressure	<u>493</u> PSI	(depth) <u>4954</u>	T-Open <u>05:40 Am.</u>
(C) First Final Flow Pressure	<u>738</u> PSI	Recorder No. <u>2342</u>	T-Pulled <u>08:55 Am.</u>
(D) Initial Shut-in Pressure	<u>950</u> PSI	(depth) <u>5007</u>	T-Out <u>16:05 P.M.</u>
(E) Second Initial Flow Pressure	<u>794</u> PSI	Recorder No. <u>11058</u>	
(F) Second Final Flow Pressure	<u>928</u> PSI	(depth) <u>5177</u>	
(G) Final Shut-in Pressure	<u>962</u> PSI	Initial Opening <u>30</u>	Test <u>X</u>
(H) Final Hydrostatic Mud	<u>2400</u> PSI	Initial Shut-in <u>45</u>	Jars <u>X</u>
		Final Flow <u>60</u>	Safety Joint <u>X</u>
		Final Shut-in <u>60</u>	Straddle <u>X</u>
			Circ. Sub <u>X</u> <u>n/c</u>
			Sampler <u>X</u>
			Extra Packer <u>X</u>
			Elect. Rec. <u>    </u>
			Other <u>    </u>

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Approved By [Signature]