

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

API NO. 15- 077-21350-00-00

ORIGINAL

County HARPER

- E/2- E/2- SW Sec. 15 Twp. 33 Rge. 6 X W

1320 Feet from (S/N (circle one) Line of Section

2970 Feet from (E/W (circle one) Line of Section

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

Lease Name CAROTHERS E Well # 1

Field Name STOHRVILLE

Producing Formation MISSISSIPPI DOLOMITE

Elevation: Ground 1335 KB 1343

Total Depth 4590' PBTD 4549'

Amount of Surface Pipe Set and Cemented at 257

Multiple Stage Cementing Collar Used? Yes X No

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

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

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

Att. 1, 7-6-98 U.C.

Chloride content 1445 ppm Fluid volume 165 bbls  
Dewatering method used: PIT ALLOWED TO DRY, restore  
Location of fluid disposal if hauled offsite:

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

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

Quarter Sec. Twp. S Rng. E/W

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

Operator: License 8061

Name: OIL PRODUCERS, INC. OF KANSAS

Address P.O. BOX 8647

City/State/Zip WICHITA, KANSAS 67208

Purchaser: WESTERN GAS RESOURCES

Operator Contact Person: DIANA RICHECKY

Phone (316) 681-0231

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: NONE ON SITE

Designate Type of Completion

X New Well Re-Entry Workover

X Oil SWD SLOW Temp. Abd.

X Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

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

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

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingle Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

02/15/98 02/21/98 03/16/98

Spud Date Date Reached TD Completion Date

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 be complete and correct to the best of my knowledge.

Signature John S. Weir John S. Weir

Title President Date 06/19/98

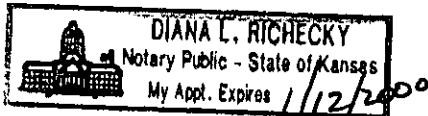
Subscribed and sworn to before me this 19th of June 1998

Notary Public Diana L. Richecky

Date Commission Expires Jan 12, 2000

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

Form ACO-1 (7-91)



RECEIVED  
STATE CORPORATION COMMISSION

JUN 22 1998

Operator Name Oil Producers, Inc. of Kansas Lease Name CAROTHERS E Well # 1

Sec. 15 Twp. 33S Rge. 6  
 East  
 West

County HARPER

ORIGINAL

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3196'	-1853
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Iatan	3564'	-2221
(Submit Copy)		Kansas City	3818'	-2475
		Mississippi	4428'	-3085
		Mississippi dolomite	4442'	-3099
		LTD	4589'	-3246

List All E.Logs Run: COMPENSATED DENSITY NEUTRON LOG, DUAL INDUCTION LOG, SONIC LOG, GAMMA RAY CORRELATION CEMENT BOND LOG, GEOLOGICAL LOG

CASING RECORD <input type="checkbox"/> New <input checked="" 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#	257	60 40 POZ	175	2% GEL, 3% CC
PRODUCTION	7 7/8	4 1/2"	10.5 #	4589	EA-2	100	18% SALT, 5% CAL
							SEAL

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	4430-4432'	SEE ATTACHED INITIAL COMPLETION REPORT	same
4	4442-4450'		

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8"	4492.31'			

Date of First, Resumed Production, SWD or Inj.	Producing Method						Gravity
4/18/98	Oil	Bbls.	Gas	Mcf	Water	Flowing Pumping Gas Lift Other (Explain)	
Estimated Production			300mcfpd			Gas-Oil Ratio	

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:  SEE ATTACHED SHEET 4430-4450'

RECEIVED

JUN 22 1998

Harper, Kansas

# ALLIED CEMENTING CO., INC. 5869

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

SERVICE POINT:  
med lodge, ks

ORIGINAL  
15-077-21350

DATE <u>2-15-98</u>	SEC. <u>15</u>	TWP. <u>33S</u>	RANGE <u>6W</u>	CALLED OUT <u>1:30 P.M.</u>	ON LOCATION <u>3:00 P.M.</u>	JOB START <u>6:30 P.M.</u>	JOB FINISH <u>7:45 P.M.</u>
LEASE <u>Carothers</u>		WELL # <u>1</u>	LOCATION <u>Anthony, 4E-1n-1/2E-n/s</u>		COUNTY <u>Harper</u>	STATE <u>KS.</u>	

OLD OR NEW (Circle one)

CONTRACTOR Duke #2

TYPE OF JOB Surface Csg.

HOLE SIZE 12 1/4 T.D. 260'

CASING SIZE 8 5/8 x 24 DEPTH 257'

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

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

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

PRES. MAX 250 MINIMUM 100

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15 feet

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

OWNER Oil Producers of Kansas, Inc.  
CEMENT

AMOUNT ORDERED 1755 x 6.0 / 40 / 2% Gel  
3% CaCl<sub>2</sub>

COMMON #	<u>105</u>	@	<u>6.35</u>	<u>666.75</u>
POZMIX	<u>70</u>	@	<u>3.25</u>	<u>227.50</u>
GEL.	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>6</u>	@	<u>28.00</u>	<u>168.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>175</u>	@	<u>1.05</u>	<u>183.75</u>
MILEAGE	<u>175 x 45</u>	@	<u>.04</u>	<u>315.00</u>

TOTAL \$ 1589.50

### EQUIPMENT

PUMP TRUCK	CEMENTER <u>Larry Dreiling</u>
# <u>266</u>	HELPER <u>Shane Winsor</u>
BULK TRUCK	
# <u>301</u>	DRIVER <u>Randie Landwehr</u>
BULK TRUCK	
# _____	DRIVER _____

### REMARKS:

### SERVICE

Mix + Pump 1755 x 6.0 / 40 /  
3% CaCl<sub>2</sub> + 2% Gel. Release Plug  
Pump + Displace Plug w/ 1 1/2 Pk  
Fresh H<sub>2</sub>O. Shut In Cement  
Circ. to Surface

DEPTH OF JOB	<u>257'</u>		
PUMP TRUCK CHARGE			<u>470.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>45</u>	@	<u>2.85</u>
PLUG <u>wooden 8 5/8</u>		@	<u>45.00</u>
		@	
		@	

TOTAL \$ 643.25

CHARGE TO: Oil Producers of Kansas  
STREET P.O. Box 8647  
CITY Wichita STATE Ks ZIP 67208

### FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE \$ 2233.75

DISCOUNT \$ 334.91 IF PAID IN 30 DAYS

NET # 1897.84

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.

SIGNATURE John J. Armbruster JOHN J. ARMBRUSTER

RECEIVED  
REGISTRATION COMMISSION  
JUN 22 1998



# CEMENTING LOG ORIGINAL

STAGE NO

15-077-21350

Date: 2-15-98 District: med. lodge Ticket No. 5869  
 Company: Oil Producers of Ks. Rig: Duke #2  
 Lease: Carotherse Well No. 1  
 County: Harper State: KS.  
 Location: Anthony, 4E-10-1/2E-nk Field: 15-33-6W

CASING DATA: PTA  Squeeze   
 Surface:  Intermediate  Production  Liner   
 Size: 8 5/8 Type: J-55 Weight: 24 Collar

Casing Depths: Top 257-8 5/8 Bottom

Drill Pipe: Size 4 1/2 Weight 16.60 Collars Xhole  
 Open Hole: Size 12 1/4 T.O. 260 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl. 15.70  
 Open Hole: Bbls/Lin. ft. .1458 Lin. ft./Bbl. 16.5993  
 Drill Pipe: Bbls/Lin. ft. .0142 Lin. ft./Bbl. 70.32  
 Annulus: Bbls/Lin. ft. .0735 Lin. ft./Bbl. 13.6237

Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt \_\_\_\_\_

CEMENT DATA:

Spacer Type: 3 Bbls / Fresh H<sub>2</sub>O  
 Amt. \_\_\_\_\_ Skis Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

FAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Amt. \_\_\_\_\_ Skis Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type CLASS A  
60/40/3% CaCl<sub>2</sub> + 2% Gel Excess 100%  
 Amt. 17.5 Skis Yield 1.26 ft<sup>3</sup>/sk Density 14.8 PPG  
 WATER: Lead \_\_\_\_\_ (gals/sk Tail) 5.6 gals/sk Total 2.3 Bbls

Pump Trucks Used: 266 - Shane Winsor  
 Bulk Equip: 301 - Randie Handwer

Float Equip: Manufacturer \_\_\_\_\_

Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Head: type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plug: Top wooden Btm. \_\_\_\_\_  
 Stage Collars: \_\_\_\_\_  
 Special Equip: \_\_\_\_\_  
 Disp. Fluid Type: Fresh H<sub>2</sub>O Amt. 15 1/2 Bbls Weight 8.34 PPG  
 Mud Type: Chemical Weight 9.1 PPG

COMPANY REPRESENTATIVE: John Ambruster

CEMENTER: Larry Drilling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE (Casing)	ANNULUS	TOTAL FLUID	Pumped Per Time Period	WATE Bbls: Min	
6:30	150					Pipe on Bottom - Break Circ. mix + Pump 17.5 sks. 60/40/2% Gel 3% CaCl <sub>2</sub> Cement In. Stop Pumps. Release Plug Pump + Displace Plug w/ Fresh H <sub>2</sub> O Displace In. Stop Pumps Shut In. Cement Circ. to Surface
7:00	150		40		5 1/2	
7:10						
7:15	150		15 1/2		3	

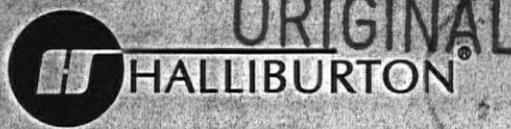
RECORDED

JUN 22 1998

FINAL DISP. PRESS \_\_\_\_\_ PSI HUMP PLUG TO \_\_\_\_\_ PSI III FFOBACK \_\_\_\_\_ RRLS

THANK YOU

CUSTOMER COPY



REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES A Division of Halliburton Company

Table with columns: INVOICE NO. (308248), DATE (02/22/1998)

Table with columns: WELL LEASE NO./PROJECT, WELL/PROJECT LOCATION, STATE, OWNER, SERVICE LOCATION, CONTRACTOR, JOB PURPOSE, TICKET DATE, ACCT. NO., CUSTOMER AGENT, VENDOR NO., CUSTOMER P.O. NUMBER, SHIPPED VIA, FILE NO.

OIL PRODUCERS INC. OF KANSAS C/O MR. BRAD SIROKY 1302 E. THIRD STREET PRATT, KS 67124-8195

DIRECT CORRESPONDENCE TO:

P O BOX 963 PRATT KS 67124 316-672-5593

15-077-21350

Main table with columns: REFERENCE NO., DESCRIPTION, QUANTITY, UM, UNIT PRICE, AMOUNT. Includes items like MILEAGE CEMENTING ROUND TRIP, SUPER FLUSH, CEMENT, etc.

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

AFFIX JOB TKT

TERMS: 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.

CUSTOMER COPY

INVOICE



REMIT TO:  
P.O. BOX 951046  
DALLAS, TX 75395-1046  
Corporate FIN 73-0271280

HALLIBURTON ENERGY SERVICES  
A Division of Halliburton Company

INVOICE NO.	DATE
308248	02/22/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
CAROTHERS 1		HARPER		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
PRATT		DUKE DRILLING	SHOWN BELOW		02/22/1998
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
646989	BRAD SIROKY			COMPANY TRUCK	37738

OIL PRODUCERS INC. OF KANSAS  
C/O MR. BRAD SIROKY  
1302 E. THIRD STREET  
PRATT, KS 67124-8195

DIRECT CORRESPONDENCE TO:

P O BOX 963  
PRATT KS 67124  
316-672-5593

15-077-21350

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	JOB PURPOSE SUBTOTAL				9,719.11
	INVOICE SUBTOTAL				9,719.11
	DISCOUNT-(BID)				3,012.89-
	INVOICE BID AMOUNT				6,706.22
	*-KANSAS STATE SALES TAX				185.20
	*-PRATT COUNTY SALES TAX				37.79
<b>INVOICE TOTAL - PLEASE PAY THIS AMOUNT</b>					<b>\$6,929.21</b>

AFFIX JOB TKT

TERMS: 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 date of invoice. Customer agrees to pay interest of 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.

ORDER NO. 10900



**HALLIBURTON**  
HALLIBURTON ENERGY SERVICES

CUSTOMER COPY TICKET

No. 308248 - 6

ORIGINAL

PAGE 1 OF 2

CHARGE TO: Oil Producers of Kansas  
ADDRESS: \_\_\_\_\_  
CITY, STATE, ZIP CODE: \_\_\_\_\_

WELL PROJECT NO. 1  
WELL LOCATION: APL-15-0772135-0000  
WELL PERMIT NO. 15-338-6W

LEASE: Carottes  
CONTRACTOR: Duke Dalg  
WELL CATEGORY: 01  
JOB PURPOSE: 035

CITY/OFFSHORE LOCATION: \_\_\_\_\_  
STATE: KS  
COUNTY/PARISH: Haskell  
RIG NAME/NO.: \_\_\_\_\_  
DELIVERED TO: \_\_\_\_\_  
DATE: 2-22-98  
OWNER: Same

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING LOC	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
	000-117		1	MILEAGE RT TRK	140	MI.			365	511.00
	000-119		1	MILEAGE CLAW	20	MI.	215		107.50	N/C
	001-014		1	PUMP CHANGE	4	HRS	4589.4		2181.00	2181.00
	018-317		1	SUPER FLUID	12	SS			112.00	1344.00
	018-303		1	CLAY LIX II	2	BA			30.00	60.00
	24A	815-19101	1	INJECT FRONT VALVE	1	EA.			110.00	110.00
	27	815-19113	1	AUTO FILL CUP	1	EA.			60.00	60.00
	12A	825-201	1	GUIDE SHAG	1	EA.			105.00	105.00
	594	801-03734	1	LATCH DOWN JAFFEG	1	EA.			116.00	116.00
	593	801-0373	1	LATCH DOWN TUB	1	EA.			184.00	184.00
	40	806-00004	1	CERTIFICATES	5	EA.			59.00	295.00

TYPE LOCK

SUB SURFACE SAFETY VALVE WAS:  
 PULLED & RETURN  PULLED  RUN  
 TYPE OF EQUALIZING SUB. CASING PRESSURE

BEAN SIZE \_\_\_\_\_ TUBING SIZE \_\_\_\_\_ TUBING PRESSURE \_\_\_\_\_ WELL DEPTH \_\_\_\_\_

DEPTH \_\_\_\_\_ TREE CONNECTION \_\_\_\_\_ TYPE VALVE \_\_\_\_\_

SPACERS \_\_\_\_\_

PAGE TOTAL: 4967.00  
 FROM CONTINUATION PAGE(S): 4752

SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: 9719.11

DATE SIGNED: 2-23-98 TIME SIGNED: 0830  
 do not require IPC (Instrument Protection)  A.M.  P.M.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: Brad Slocy X  
 CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: Michael R. Johnson EMP # \_\_\_\_\_  
 HALLIBURTON OPERATOR/ENGINEER: \_\_\_\_\_ HALLIBURTON APPROVAL: \_\_\_\_\_

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.

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

ORIGINAL



15-077-21350

Halliburton Energy Services

RECEIVED  
STATE CORPORATION COMMISSION

JUN 22 '98

DATE:02-21-1998

TIME:15:40:50

SERVICE TICKET: 308248

PRATT-25555

BULK TICKET ONLY: 100207

JOB PURPOSE:LONG STRING

COMPANY TRUCK::52530 DRIVER: B.SHORE

CUSTOMER: OIL PRODUCERS OF KANSAS LEASE & WELL#:CAROTHERS #1

504-308	STANDARD CEMENT	100	SKS.	12.13	1213.00
504-130	POZMIX-A CEMENT	35	SKS.	8.23	288.05 0.00
507-918	GASSTOP	25	LBS.	41.30	1032.50
507-775	HALAD-322	71	LBS.	7.70	546.70
509-968	W/W SALT	800	LBS.	0.18	144.00
507-970	D-AIR	47	LBS.	4.27	200.69
508-291	GILSONITE	500	LBS.	0.58	290.00
508-127	EA-2	5	SKS.	28.00	140.00
500-207	SERVICE CHARGES	164	CU FT	1.66	272.24
					TOTAL 4127.18
500-306	WEIGHT: 14284	MILES: 70	TON MILES: 499.94	1.25	624.92
					TOTAL BOOK PRICE OF BULK TICKET: \$ 4752.15

500-225 RETURN SERVICE CHARGES \_\_\_\_\_ CU FT 1.66 \_\_\_\_\_

500-306 WEIGHT: \_\_\_\_\_ RETURN MILES: 70 TON MILES: \_\_\_\_\_ 1.25 \_\_\_\_\_





# JOB SUMMARY ORIGINAL

TICKET # **308248** TICKET DATE **2-23-98**

REGION <b>North America</b>	NWA/COUNTRY <b>MID CONTINENT U.S.A.</b>	BDA / STATE <b>KANSAS</b>	COUNTY <b>HARLEM</b>
MBLND / EMP # <b>PRO 501 50848</b>	EMPLOYEE NAME <b>MICHAEL A. JOLYARD</b>	PSL DEPARTMENT <b>SEIM</b>	
LOCATION <b>PLAT. B.</b>	COMPANY <b>OIL PROD. OF B.</b>	CUSTOMER REP / PHONE <b>BLAD SIROKY</b>	
TICKET AMOUNT	WELL TYPE <b>02</b>	API / UWI # <b>15 087 2135000</b>	
WELL LOCATION <b>Anthony, B. 4E.</b>	DEPARTMENT <b>CEMLOT</b>	JOB PURPOSE CODE <b>035 RECEIVED</b>	
LEASE / WELL # <b>Carothods 1</b>	SEC / TWP / RNG <b>15-33S-6W</b>	STATE	INSUR.

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
<b>M. Jolyard 50848</b>	<b>C. MESSICK H5314</b>	<b>B. SHORE J1210</b>	

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
<b>420227</b>		<b>Comp 51936</b>		<b>Bulk 52530</b>			

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	<b>2-23-98</b>	<b>2-23-98</b>	<b>2-23-98</b>	<b>2-23-98</b>
TIME	<b>0530</b>	<b>0815</b>	<b>10:00</b>	<b>12:30</b>

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY	MAKE
Float Collar <b>10 SECT</b>	<b>1</b>	<b>H.E.S</b>
Float Shoe <b>AUTO FILL</b>	<b>1</b>	<b>"</b>
Guide Shoe	<b>1</b>	<b>"</b>
Centralizers	<b>5</b>	<b>"</b>
Bottom Plug <b>CATCH BAR</b>	<b>1</b>	<b>"</b>
Top Plug <b>LATCH PLUG</b>	<b>1</b>	<b>"</b>
Head <b>P.C.</b>	<b>1</b>	<b>"</b>
Packer		
Other		

WELL DATA						
	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing		<b>10 1/2</b>	<b>4 1/2</b>	<b>0</b>	<b>4589</b>	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole					<b>4590</b>	<b>SHOTS/FT.</b>
Perforations						
Perforations						
Perforations						

MATERIALS		
Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	in
NE Agent	Gal.	in
Fluid Loss	Gal/Lb	in
Gelling Agent	Gal/Lb	in
Fric. Red.	Gal/Lb	in
Breaker	Gal/Lb	in
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				<b>Cont. Prod C/G</b>
<b>TOTAL</b>		<b>TOTAL</b>		

ORDERED \_\_\_\_\_ HYDRAULIC HORSEPOWER \_\_\_\_\_  
 TREATED \_\_\_\_\_ AVERAGE RATES IN BPM \_\_\_\_\_  
 FEET \_\_\_\_\_ CEMENT LEFT IN PIPE \_\_\_\_\_  
 Reason \_\_\_\_\_

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
		<b>EA2</b>	<b>100</b>	<b>5% CAL SCAL 18% SAGT .75% HOLEAD 322</b>		
				<b>5% GILSONITE 1.5% DIRT - 1 1/2# GASTOP</b>	<b>1.53</b>	<b>15.2</b>
		<b>50/50</b>	<b>50</b>	<b>(5 BLS CAT 3 BLS MUD)</b>	<b>1.26</b>	<b>14.15</b>

Circulating \_\_\_\_\_ Displacement \_\_\_\_\_ Preflush: **Gal - BBI** Type \_\_\_\_\_  
 Breakdown \_\_\_\_\_ Maximum \_\_\_\_\_ Load & Bkdn: **Gal - BBI** Pad: **BBI - Gal** \_\_\_\_\_  
 Average \_\_\_\_\_ Frac Gradient \_\_\_\_\_ Treatment **Gal - BBI** Disp: **22.40** \_\_\_\_\_  
 Shut In: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Cement Slurr **Gal - BBI** **27.25** \_\_\_\_\_  
 Total Volume **Gal - BBI** \_\_\_\_\_



# ORIGINAL

## OIL PRODUCERS INC., OF KS. INITIAL COMPLETION REPORT

WELL - CAROTHERS E #1

LEGAL - E/2 E/2 SW OF 15-33s-6w IN HARPER CO. KS.

API# - 15-077-21,350

G.L. - 1335'

K.B. - 8' ABOVE G.L. @ 1343'

SURFACE CSN - 8 5/8" @ 257' WITH 175 SX

RTD - 4590'

LTD - 4589' (ELI 2/21/98)

PRODUCTION CSN - 4 1/2", 10.5# @ 4589' WITH 100 SX EA-2.

TOP OF CEMENT - 3975' WITH GOOD BONDING.

PBTD - 4549' (ELI 2/26/98), 4535' (TOP OF CASING SWAB TOOLS LEFT IN HOLE)

PERFS - MISS DOLOMITE-----4430'-4432' 4/FT. 3/4/98

MISS DOLOMITE-----4442'-4450' 4/FT. 3/4/98

TUBING RAN - 15' MA, SN, 144 JTS. 2 3/8" (4492.31')

TUBING SET@ - 4513.41'

AVER. TBG JT. - 31.19'

PUMP RAN - 2" X 1 1/2" X 12' RWTC WITH 6' GAS ANCHOR.

RODS RAN - PUMP, 2', 177-3/4" USED RODS, 8', 4', 2', 1 1/4" X 16' P.R.

PUMP SET@ - 4498.41'

PUMPING UNIT - HESSTON 80, SN - P80-00737, RATIO-23.75:1, 54"

ENGINE - CONTINENTAL C-66

SEPARTOR

TANK BATTERY

RECEIVED  
STATE OF KANSAS

JUN 27

ORIGINAL

15-077-21350

2/26/98

COMANCHE WELL SERVICE ON LOCATION, RIGGED UP D-D POLE UNIT.  
ELI WIRELINE ON LOCATION TO RUN CORRELATION & SONIC CEMENT BOND LOG.  
FOUND TOTAL DEPTH - 4549' (TOP OF INSERT SHOULD BE @ 4553')  
FOUND TOP OF CEMENT - 3975' WITH GOOD CEMENT THROUGHOUT PAY.  
COMANCHE STARTED SWABBING WELL DOWN.  
SAND LINE PARTED. LOST SWAB TOOLS AND 1800' SAND LINE IN HOLE.  
SHUT DOWN FOR THE NIGHT.

2/27 THROUGH 3/3 1998

COMANCHE FISHING SAND LINE @ NO CHARGE TO WORKING INTEREST PARTNERS.

3/4/98

MADE 1 RUN WITH OVERSHOT TO ATTEMPT RECOVERY OF SWAB TOOLS.  
COULD NOT FISH SWAB TOOLS.  
NOTE: - WE WILL LEAVE SWAB TOOLS IN HOLE TOP OF FISH @ 4535'

COMANCHE SWABBED WELL DOWN TO 4000' FROM SURFACE.  
ELI WIRELINE ON LOCATION TO PERFORATE PROPOSED INTERVALS IN MISS DOLOMITE.  
PERFORATED MISS DOLOMITE - 4430'-4432' WITH 4 SHOTS/FT. USING EXPENDABLE CSN GUN.  
PERFORATED MISS DOLOMITE - 4442'-4450' WITH 4 SHOTS/FT. USING EXPENDABLE CSN GUN.  
FOUND TOTAL DEPTH - 4535'

COMANCHE SWABBED WELL DOWN TO TOTAL DEPTH.  
MADE 1 - ½ HR. NATURAL TEST - RECOVERED NO FLUID OR GAS.  
SHUT DOWN FOR THE NIGHT.

3/5/98

SICP - 340 psi. OVERNIGHT NATURAL FILL-UP - 60' WATER.  
BLEW WELL DOWN. MADE 1 SWAB RUN.  
½ HR. NATURAL TEST - RECOVERED NO FLUID, TEST GAS @ 23 MCFPD.

HALLIBURTON ON LOCATION TO ACIDIZE MISS DOLO PERFS WITH 750 GALS 15% DSFE.

ACIDIZE MISS DOLO PERFS AS FOLLOWS:

PUMP 750 GALS 15% DSFE ACID. LOAD HOLE WITH CLA-FIX WATER.  
PRESS TO 150 psi & STARTED FEEDING ACID.  
DISPLACED 100 GALS @ ½ BPM - 150 psi TO 550 psi.  
DISPLACED 250 GALS @ 1 BPM - 550 psi TO 450 psi.  
DISPLACED 400 GALS @ 2 BPM - 450 psi TO 425 psi.  
ISIP - 375 psi, VAC - 5 MINUTES., TOTAL LOAD - 88 BBLS.

COMANCHE RIGGED TO SWAB BACK ACID LOAD & TEST AFTER ACID.

TEST MISS PERFS AFTER ACID AS FOLLOWS:

FOUND FLUID LEVEL @ 200' FROM SURFACE.  
SWAB DOWN TO 2000', RECOVERED APPROX 30 BBLS. WELL KICKED OFF FLOWING.  
15 MIN FLOW TEST TO TANK - WELL FLOWED 35 BBLS WATER. TURN TO PIT. VOLUMES TOO HIGH.  
TEST GAS VOLUMES TO PIT @ 5700 MCFPD.  
1 HR. FLOW TEST - MEASURED GAS @ 3200 MCFPD, LIGHT MIST FLUID, NO OIL.

SIROKY OIL MANAGEMENT ON LOCATION. UNLOADED 145 JTS. 2 3/8" TBG 4550' FROM A&W.

RECEIVED  
STATE OF MISSISSIPPI  
JUN 22 1998  
MISSISSIPPI

ORIGINAL

15-077-21350

3/5/98 CONT.

HALLIBURTON ON LOCATION TO RE-ACIDIZE MISS PERFS WITH 2000 GALS 15% SGA ACID AND 2000 GALS GELLED WATER TO MAKE UP PAD-ACID JOB.

RE-ACIDIZE MISS PERFS AS FOLLOWS:

PUMP 500 GALS 15% SGA ACID,	DISPLACED @ 4 BPM - 0 psi.
PUMP 500 GALS GELLED WATER,	DISPLACED @ 4 BPM - 0 psi TO 550 psi.
PUMP 500 GALS 15% SGA ACID,	DISPLACED @ 3 BPM - 450 psi.
PUMP 500 GALS GELLED WATER,	DISPLACED @ 3 BPM - 400 psi.
PUMP 500 GALS 15% SGA ACID,	DISPLACED @ 4 BPM - 400 psi.
PUMP 500 GALS GELLED WATER,	DISPLACED @ 4 BPM - 400 psi.
PUMP 500 GALS 15% SGA ACID,	DISPLACED @ 4 BPM - 400 psi.
PUMP 500 GALS GELLED WATER,	DISPLACED @ 4 BPM - 400 psi.

FLUSH WITH 70 BBLS CLA-FIX WATER.

ISIP - 250 psi, VAC - LESS THAN 5 MINUTES.

TOTAL LOAD - 165 BBLS.

COMANCHE RIGGED TO RUN 2 3/8" PRODUCTION TUBING WITH HALLIBURTON STANDING BY.

RAN PRODUCTION TUBING AS FOLLOWS:

MUD ANCHOR X 2 3/8"	15.00'
SEATING NIPPLE X 2 3/8"	1.10'
144 JTS. USED T&D TUBING X 2 3/8"	4492.31'
K.B. (8' < 3' ABOVE GL)	5.00'
<u>TUBING SET @</u>	4513.41'
<u>SEATING NIPPLE SET @</u>	4498.41'

COMANCHE RIGGED UP 2 3/8" TUBING SWAB TO SWAB BACK ACID LOAD & TEST MISS PERFS AFTER RE-ACID JOB.

TEST AFTER RE-ACID AS FOLLOWS:

SWAB BACK 44 BBLS, WELL KICKED OFF FLOWING.  
1/2 HR. FLOW TEST - RECOVERED 20 BBLS NO GAS TEST.  
SHUT DOWN FOR THE NIGHT.

RECEIVED  
STATE OF TEXAS  
JUN 22 1998  
COMMISSION

3/6/98

SICP - 940 psi, SITP - 680 psi.

MADE 1 TUBING SWAB RUN. WELL KICKED OFF FLOWING.

FLOW TEST MISS PERFS AFTER RE-ACID AS FOLLOWS:

1 HR. FLOW TEST - RECOVERED 8.35 BBLS. NO GAS TEST.  
1 HR. FLOW TEST - RECOVERED 18.37 BBLS, 8% OIL, NO GAS TEST.  
1 HR. FLOW TEST - RECOVERED 3.34 BBLS, 11% OIL, TEST GAS @ 1539 MCFPD.  
1 HR. FLOW TEST - RECOVERED 3.34 BBLS, 15% OIL, TEST GAS @ 1539 MCFPD.  
1 HR. FLOW TEST - RECOVERED 3.34 BBLS, 27% OIL, TEST GAS @ 1539 MCFPD.

GREAT PLAINS FLUID SERVICE ON LOCATION TO KILL WELL TO RUN RODS.  
KILL WELL WITH 80 BBLS KCL WATER.

RIG TO RUN RE-BUILT PUMP & RODS FROM WOLFF B #3 WELL.

3/6 CONT.

RAN PUMP & RODS AS FOLLOWS:

2" X 1 1/2" X 12' RWTC WITH 6' GAS ANCHOR	14.00'
2' X 3/4" ROD SUB	2.00'
177 - 3/4" USED RODS	4425.00'
8', 4', 2', X 3/4" ROD SUBS	14.00'
1 1/4" X 16' POLISHED ROD	<u>16.00'</u>
PUMP SET @	4498.41'

CLAMPED RODS OFF.

COMANCHE RIGGED DOWN & MOVED OFF LOCATION.

WESTERN GAS RESOURCES HAS BEEN CONTACTED ON HOOK-UP.

THEY ARE IN PROCESS OF INITIATING GAS LINE HOOK-UP.

WILL SET SURFACE EQUIPMENT ASAP.

THIS LOOKS LIKE A NICE GAS PRODUCER WITH 5-10 BOPD CAPABILITIES.

END OF REPORT

BRAD SIROKY

RECEIVED  
 JUN 22 1998

15-077-21350



# Ricketts Testing, Inc.

# ORIGINAL

Company OIL PRODUCERS, INC. OF KANSAS Lease & Well No. CAROTHERS "E" #1  
 Elevation 1343 K.B. Formation MISSISSIPPI Effective Pay \_\_\_\_\_ ft. Ticket No. 1883  
 Date 2-21-98 Sec. 15 Twp. 33S Range 6W County HARPER State KANSAS  
 Test Approved by BILL SHEPHERD Ricketts Representative JIM RICKETTS

Formation Test No. 2 Interval Tested from 4436 ft. to 4467 ft. Total Depth 4467 ft.  
 Packer Depth 4436 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Packer Depth 4433 ft. Size 6 3/4 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4441 ft. Recorder Number 13307 Cap. 4650  
 Bottom Recorder Depth (Outside) 4444 ft. Recorder Number 13306 Cap. 4625  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor Duke Drilling Rig #2 Drill Collar Length \_\_\_\_\_ I.D. \_\_\_\_\_ in.  
 Mud Type Chemical Viscosity 44 Weight Pipe Length \_\_\_\_\_ I.D. \_\_\_\_\_ in.  
 Weight 9.4 Water Loss 12.0 cc. Drill Pipe Length 4385 I.D. 3.25 in.  
 Chlorides 3400 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.  
 Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 31 ft. Size 5 1/2 in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
 Gravity Oil \_\_\_\_\_ Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 xh in.

Blow: Strong blow Initial Flow Period. Gas to surface in 13 minutes.  
Gauged 69,500 CFPD

Recovered 30 ft. of Mud.  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Remarks: \_\_\_\_\_

Time Set Packer (s) 3:54 A.M. Time Started Off Bottom 6:39 A.M. Maximum Temperature 117°  
 Initial Hydrostatic Pressure ..... (A) 2207 P.S.I.  
 Initial Flow Period ..... Minutes 45 (B) 29 P.S.I. to  
 (C) 29 P.S.I.  
 Initial Closed In Period ..... Minutes 30 (D) 1456 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 29 P.S.I. to  
 (F) 29 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 1484 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2181 P.S.I.

# RICKETTS TESTING, INC.

## Pressure Data

Date 2-21-98 Test Ticket No. 1883  
 Recorder No. 13306 Capacity 4625 Location 4444 Ft.  
 Clock No. \_\_\_\_\_ Elevation 1343 K.B. Well Temperature 117 °F

Point	Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2207 P.S.I.	Open Tool	3:54 A.M.	
B	First Initial Flow Pressure	29 P.S.I.	First Flow Pressure	45 Mins.	45 Mins.
C	First Final Flow Pressure	29 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1456 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	29 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	29 P.S.I.			
G	Final Closed-in Pressure	1484 P.S.I.			
H	Final Hydrostatic Mud	2181 P.S.I.			

### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of _____ Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of _____ Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	29	0	29	0	29	0	29
P 2	29	3	1112	5	29	3	1135
P 3	29	6	1315	10	29	6	1349
P 4	29	9	1381	15	29	9	1381
P 5	29	12	1405	20	29	12	1405
P 6	29	15	1426	25	29	15	1426
P 7	29	18	1439	30	29	18	1439
P 8	29	21	1450	35		21	1448
P 9	29	24	1452	40		24	1455
P10	29	27	1454	45		27	1459
P11		30	1456	50		30	1463
P12		33		55		33	1470
P13		36		60		36	1475
P14		39		65		39	1477
P15		42		70		42	1478
P16		45		75		45	1479
P17		48		80		48	1480
P18		51		85		51	1481
P19		54		90		54	1482
P20		57		95		57	1483
		60				60	1484





DST # 2 TR # 1883

