

ORIGINAL

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

Operator: License 8061  
Name: OIL PRODUCERS, INC. OF KANSAS  
Address P.O. BOX 8647

City/State/Zip WICHITA, KANSAS 67208  
Purchaser: WICHITA INDUSTRIAL

Operator Contact Person: DIANA RICHECKY  
Phone (316) 681-0231

Contractor: Name: Duke Drilling Co., Inc.  
License: 5929

Wellsite Geologist: WILLIAM SHEPHERD  
Designate Type of Completion  
 New Well  Re-Entry  Workover

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

If Workover:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBTB  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_  
11/12/98 11/20/98 1/17/99  
Spud Date Date Reached TD Completion Date

API NO. 15- 033-20980  
County COMANCHE  
approximately 220' west of  
C - N/2- NW - SE Sec. 21 Twp. 32 Rge. 19  W  
2310 Feet from  N (circle one) Line of Section  
2200 Feet from  W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE,  NW or SW (circle one)

Lease Name LYON Well # 1  
Field Name UN-NAMED

Producing Formation \_\_\_\_\_  
Elevation: Ground 1953 KB 1961

Total Depth 5400 PBTB 5120  
Amount of Surface Pipe Set and Cemented at 663

Multiple Stage Cementing Collar Used?  Yes  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. 3-3-99 UC  
(Data must be collected from the Reserve Pit)

no free fluids per Drillers Log  
Chloride content 246000 ppm Fluid volume 2240 bbls

Dewatering method used: Hauled offsite  
Location of fluid disposal if hauled offsite:

Operator Name Oil Producers, Inc. of Ks

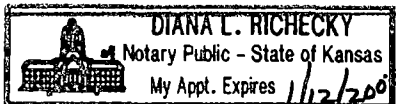
Lease Name Watson License No. 8061  
SW Quarter Sec. 8 Twp. 29 S Rng. 19 E/W  
County PRATT Docket No. \_\_\_\_\_

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 John S. Weir John S. Weir  
Title President Date 02/22/99  
Subscribed and sworn to before me this 22nd of February  
19 99.  
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)



Operator Name Oil Producers, Inc. of Kansas Lease Name LYONS Well # 1  
 Sec. 21 Twp. 32S Rge. 19  East  West  
 County COMANCHE

**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  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: GEOLOGICAL LOG, Compensated  
Neutron Density log, Dual  
Induction Log, Gamma Ray correlation  
Cement Bond Log

Name	Top	Datum
HEEBNER	4190'	-2229'
BROWN LIME	4386'	-2425'
LANSING KANSAS CITY	4398'	-2437'
Marmaton	4870'	-2909'
Altamont	4914'	-2959'
Pawnee	4962'	-3001'
Mississippi	5082'	-3119'
Miss Dolomite	5114'	-3153'
LTD	5395	-3494'

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
CONDUCTOR		20"		31'		3yds 6sx	
SURFACE	12 3/4"	8 5/8"	23#	663'	60 40 poz	250	3% CC 2%GEL
Production	7 7/8	4 1/2"	10.5#	5399	EA-2	215	

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

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

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	5145.72		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 1/17/99 Producing Method X  
 Estimated Production 8 bopd Oil 8 Bbls. 200 mcfpd Gas 8 Mcf BWPD Water 8 Bbls.  
 Flowing X Pumping  Gas Lift  Other (Explain)   
 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 see above  
 Other (Specify)

RECEIVED  
 STATE MINERAL COMMISSION

FEB 23 1999  
 2-23-99  
 CONSERVATION DIVISION  
 Wichita, Kansas

Attachment to ACO-1 - Lyons #1

Drilling Fluid Management Plan

Reserve water was hauled into the following wells in addition to Oil Producers, Inc. of Kansas' Watson as listed on side one of the form.

- 1) Advantage Resources #6927  
Hardy B #1  
NE/4 24-28S-18W, Kiowa County
  
- 2) KBW #5993  
Harmon SWD  
NW/4 11-33S-20W, Comanche County
  
- 3) Peter H. Beren #3051  
V H Koehn #12  
SW/4 28-29S-18W, Kiowa County

RECEIVED  
STATE CORPORATION COMMISSION

FEB 23 1999  
2-23-99  
CONSERVATION DIVISION  
Wichita Kansas

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



HALLIBURTON ENERGY SERVICES  
A Division of Halliburton Company

INVOICE

INVOICE NO.	DATE
460036	11/20/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
LYON 1		COMANCHE		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
PRATT		DUKE DRILLING 2	SHOWN BELOW		11/20/1998
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
646989	BRAD SIROKY			COMPANY TRUCK	48765

DIRECT CORRESPONDENCE TO:

OIL PRODUCERS INC. OF KANSAS  
C/O MR. BRAD SIROKY  
1003 S. PEARL  
PRATT, KS 67124-8195

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

*Intangible*

*LYON  
IDC  
CEMENT  
PROD. CSA*

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	65	MI	3.65	237.25
000-119	MILEAGE FOR CREW	65	MI	2.15	N/C
001-016	CEMENTING CASING	5399	FT	2,422.00	2,422.00
018-303	CLAYFIX II, PER GAL	2	GAL	33.95	67.90
018-315	MUD FLUSH	500	GAL	.80	400.00
26	INSERT VALVE F. S. - 4 1/2"	1	EA	339.00	339.00
847.6316					
27	FILL-UP UNIT 4 1/2"-5"	1	EA	60.00	60.00
815.19113					
40	CENTRALIZER 4-1/2 X 7-7/8	6	EA	59.00	354.00
806.60004					
593	3-WIPER L-D PLUG - 4 1/2"	1	EA	184.00	184.00
801.0373					
594	4 1/2" LATCH DOWN BAFFLE	1	EA	116.00	116.00
801.03734					
504-308	CEMENT - STANDARD	215	SK	12.13	2,607.95
504-130	CEMENT - 50/50 POZMIX STANDARD	25	SK	8.23	205.75
507-918	GASSTOP	101	LB	41.30	4,171.30
507-775	HALAD-322	152	LB	7.70	1,170.40
509-968	SALT	1900	LB	.18	342.00
507-970	D-AIR 1, POWDER	54	LB	4.27	230.58
508-291	GILSONITE BULK	1075	LB	.58	623.50
508-127	CAL SEAL 60	11	SK	28.00	308.00
500-207	BULK SERVICE CHARGE	305	CFT	1.66	506.30
500-306	MILEAGE CMTG MAT DEL OR RETURN	866.71	TMI	1.25	1,083.39

\*\*\*\*\* 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. 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

ORIGINAL

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



HALLIBURTON ENERGY SERVICES  
A Division of Halliburton Company

INVOICE

INVOICE NO.	DATE
460036	11/20/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
LYON 1		COMANCHE		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
PRATT	DUKE DRILLING 2	SHOWN BELOW		11/20/1998	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
646989	BRAD SIROKY			COMPANY TRUCK	48765

OIL PRODUCERS INC. OF KANSAS  
C/O MR. BRAD SIROKY  
1003 S. PEARL  
PRATT, KS 67124-8195

DIRECT CORRESPONDENCE TO:  
P O BOX 963  
PRATT KS 67124  
316-672-5593

REFERENCE NO.	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
	JOB PURPOSE SUBTOTAL			15,429.32
	INVOICE SUBTOTAL			15,429.32
	DISCOUNT-(BID)			4,783.04-
	INVOICE BID AMOUNT			10,646.28
	*- KANSAS STATE SALES TAX			404.38
	*- PRATT COUNTY SALES TAX			82.52
<b>INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====&gt;</b>				<b>\$11,133.18</b>

RECEIVED  
STATE COLLABORATION COMMISSION  
FEB 23 1999  
CONSERVATION DIVISION  
Wichita Kansas

AFFIX JOB TKT

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ORDER NO. 10900



CHARGE TO: **Oil Producers of KS Inc**  
 ADDRESS: **1003 S Pearl Pl**  
 CITY, STATE, ZIP CODE: **Pratt KS 67124**

CUSTOMER COPY TICKET  
 No. **460036 - 5**

1806-D  
 SERVICE LOCATIONS: 1. **Pratt KS**  
 WELL PROJECT NO. **#1**  
 LEASE **Lyan**  
 COUNTY/PARISH **Comanche**  
 STATE **KS**  
 CITY/OFFSHORE LOCATION **VIA**  
 DATE **11-20-98**  
 OWNER **Same**  
 TICKET TYPE:  SERVICE  NITROGEN JOB?  YES  NO  
 CONTRACTOR **Duke Drly**  
 RIG NAME/NO. **#2**  
 SHIPPED **VIA** **House**  
 DELIVERED TO **Loc**  
 ORDER NO.  
 WELL TYPE **D2**  
 WELL CATEGORY **01**  
 JOB PURPOSE **035**  
 WELL PERMIT NO.  
 WELL LOCATION **Land**  
 REFERRAL LOCATION  
 INVOICE INSTRUCTIONS  
**API # 1503320980000**

DATE	QTY	UNIT	PRICE	AMOUNT
000-117	1	MILEAGE 53387* RD TP	65 mi	3 65
000-119	1	100 Crew mileage 421269* RD TP	65 mi	2 15
001-016	1	Pump Charge 1 Trk	5399 ft	4 10's
018-303	1	Chy-Fix II	2 gal	33 95
018-315	1	mud Flush	500 gal	80
26	1	847,6316 Insert Valve Float Shoe 8rd	1 ea 4.5 in	339 -
27	1	815,1913 Fill-up Unit	1 ea	60 -
40	1	806,6004 Centralizers S-4	6 ea 4.5 in	59 -
593	1	801,0373 Latch Down Plug	1 ea " "	184 -
594	1	801,03734 Latch Down Baffle	1 ea " "	116 -

**Bulk Tank # 100507**

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.

DATE SIGNED: **11-20-98** TIME SIGNED: **1945**  
 A.M.  P.M.

do  do not require IPC (Instrument Protection)  Not offered

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): **Brad Siroky**  
 CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: **X**  
 HALLIBURTON OPERATOR/ENGINEER: **David L Scott** EMP # **B9475**  
 HALLIBURTON APPROVAL: **D L Scott**

PAGE TOTAL: **15,429.32**  
 FROM CONTINUATION PAGE(S)  
 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

FEB-22-99 MON 11:03 AM OIL PRODUCERS INC. OF KS FAX NO. 316-672-55867 ORIGINAL



Halliburton Energy Services

DATE: 11-20-1998

TIME: 14:06:41

SERVICE TICKET: 46003b

PRATT-25555

BULK TICKET ONLY: 100507

JOB PURPOSE: LONG STRING

COMPANY TRUCK: 76103 DRIVER: C. BAKER

CUSTOMER: OIL PRODUCERS OF KS INC. LEASE & WELL#: LYON #1

504-308	STANDARD CEMENT	215	SKS.	12.13	2607.95
504-130	POZMIX-A CEMENT	25	SKS.	8.23	<del>205.75</del> 205.75
507-918	GASSTOP	101	LBS.	41.30	4171.30
507-775	HALAD-322	152	LBS.	7.70	1170.40
509-968	W/W SALT	1900	LBS.	0.18	342.00
507-970	D-AIR	54	LBS.	4.27	230.58
508-291	GILSONITE	1075	LBS.	0.58	623.50
508-127	EA-2	11	SKS.	28.00	308.00
500-207	SERVICE CHARGES	305	CU FT	1.66	506.30
					TOTAL 10165.78
500-306	WEIGHT: 26668	MILES: 65	TON MILES: 866.71	1.25	1083.39
					TOTAL BOOK PRICE OF BULK TICKET: \$11249.17

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STATE COMMISSION DIVISION

FEB 24 1999

CONCRETE DIVISION  
Wichita, Kansas

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

500-306 WEIGHT: \_\_\_\_\_ RETURN MILES: 65 TON MILES: \_\_\_\_\_ 1.25



**JOB SUMMARY** 4230-1

TICKET #	460036	TICKET DATE	11.20.98
REGION	North America	NWA/COUNTRY	mid Pont
BDA / STATE	KS	COUNTY	Comanche
MBU ID / EMP #	M.E.D. 0596 B9475	EMPLOYEE NAME	DL Scott
LOCATION	Pratt KS	COMPANY	Oil Producers of KS Inc
TICKET AMOUNT	\$429.32	WELL TYPE	02
WELL LOCATION	Saw Aldwater KS	DEPARTMENT	Cmt
LEASE / WELL #	#1	SEC / TWP / RNG	21 32 19
PBL DEPARTMENT	Stim	CUSTOMER REP / PHONE	Brad Sinsky
API / UWI #	1503320980000	JOB PURPOSE CODE	035

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
DL Scott B9475   11			
Chilton H 1660   11			
C Baker 09447   11			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
421269	120						
53387	120						
9444-76103	120						

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
11/20	1300	1120	1120	1120
		1630	2228	2315

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe ISVY/Fill	1 CG	Housco
Centralizers 5-4	6 CG	"
Bottom Plug		
Top Plug LD 4" Raffle	1 CG	"
Head (manifold)	1 CG	"
Packer		
Other		

**WELL DATA**

	NEW/AGED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	10.5	4.5	KB	5399	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			7.875	5399	5905	SHOTS/FT.
Perforations	Stal pipe = 5408'					
Perforations	2 on 123 3/4" log					
Perforations						

**MATERIALS**

Treat Fluid	Density	Lb/Gal
Disp. Fluid <td>Density</td> <td>Lb/Gal</td>	Density	Lb/Gal
Prop. Type <td>Size</td> <td>Lb.</td>	Size	Lb.
Prop. Type <td>Size</td> <td>Lb.</td>	Size	Lb.
Acid Type <td>Gal.</td> <td>%</td>	Gal.	%
Acid Type <td>Gal.</td> <td>%</td>	Gal.	%
Surfactant <td>Gal.</td> <td>In</td>	Gal.	In
NE Agent <td>Gal.</td> <td>In</td>	Gal.	In
Fluid Loss <td>Gal/Lb</td> <td>In</td>	Gal/Lb	In
Gelling Agent <td>Gal/Lb</td> <td>In</td>	Gal/Lb	In
Fric. Red. <td>Gal/Lb</td> <td>In</td>	Gal/Lb	In
Breaker <td>Gal/Lb</td> <td>In</td>	Gal/Lb	In
Blocking Agent <td>Gal/Lb</td> <td></td>	Gal/Lb	
Perpac Balls <td>Qty.</td> <td></td>	Qty.	
Other	2 gal Max-FIX II	
Other	100 lb - MF-1	
Other	5 gal Raffle	
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
11-20	11	11-20	1	035 4 1/2 long string
<b>TOTAL</b>		<b>TOTAL</b>		

**ORDERED** \_\_\_\_\_ **HYDRAULIC HORSEPOWER** \_\_\_\_\_  
 Avail. \_\_\_\_\_ Used \_\_\_\_\_  
**TREATED** \_\_\_\_\_ **AVERAGE RATES IN BPM** \_\_\_\_\_  
 Disp. \_\_\_\_\_ Overall \_\_\_\_\_  
**FEET** 32.44 **CEMENT FEET IN PIPE** \_\_\_\_\_  
 Reason Raffle

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
015	215	EA-2 SW	B	5% Gal Seal, 2% D-ATR-1 5 1/2 Gal 18% Salt, 75% Hald-337 5% Gassing	143	16.2
	35	50/100pm	B	2% Gel Plugging Cmt for Raffle + Muff	128	13.8

Circulating Breakdown	Displacement	2500	Preflush:	Gal - BBI	Type
Average	Maximum		Load & Bkdn:	Gal - BBI	Pad: BBI Gal 25
Shut In: Instant	Frac Gradient		Treatment	Gal - BBI	Disp: BBI - Gal 85.9
	5 Min	15 Min	Cement Sturr	Gal - BBI	54.9 + 3.6
			Total Volume	Gal - BBI	

THE INFORMATION STATED HEREIN IS CORRECT  
 CUSTOMER'S REPRESENTATIVE SIGNATURE \_\_\_\_\_





JOB LOG 4239-5

REGION North America	NWA/COUNTRY	TICKET # 710034	TICKET DATE 7/20/79
MBU ID / EMP #	EMPLOYEE NAME	BDA / STATE	COUNTY
LOCATION	COMPANY	PSL DEPARTMENT	
TICKET AMOUNT	WELL TYPE	CUSTOMER REP / PHONE	
WELL LOCATION	DEPARTMENT	API / UWI #	
LEASE / WELL #	SEC / TWP / RNG	JOB PURPOSE CODE	

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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1400							Called Out
	1630							On Loc w/F.E.
	1730							Tk's on Loc Safety mtg
								T.I.H. w/sg Cent 3-6-8-10-13-19
								Leg on Bottom Drop Ball + Circ w/Rig 4.5 min
								Rig up Howco
0221	6	20		✓		300		St 2% Clay-Fix II Preflush
0223	6	12		✓		300		St mud flush
0228	1	5.4						Plug R.H. + M.H. w/255sk's 50/50 por
0243	6.0			✓		330		St mixing Cmt @ 13.2 ppq 215 sk's
0253	5	54.7		✓		0		Finish mixing Cmt
0255	5	10						Close In + Wash pump + line
0257	7			✓		175		Release L.D. Plug + St Disp w/H2O
0302	7	63		✓		460		Lifting Cmt
0310	5	85.5		✓		1500		Plug Down + PSI TEST (3.9)
0312				✓		0		Release PSI float OK
								Good Circ. During Job

Job Complete  
 Thank you  
 Scotty



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

INVOICE

HALLIBURTON ENERGY SERVICES  
 A Division of Halliburton Company

INVOICE NO.	DATE
460032	11/12/1999

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
LYON 1	COMANCHE	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
PRATT	DUKE DRILLING	SHOWN BELOW	11/12/1999
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
646989	JOHN J ARMBRUSTER		
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	4854

DIRECT CORRESPONDENCE TO:

OIL PRODUCERS INC. OF KANSAS  
 C/O MR. BRAD SIROKY  
 1003 S. PEARL  
 PRATT, KS 67124-8195

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

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT SURFACE CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	65	MI	3.65	237.25
		1	UNT		
000-119	MILEAGE FOR CREW	65	MI	2.15	N/C
		1	UNT		
001-016	CEMENTING CASING	663	FT	1,630.00	1,630.00
		1	UNT		
030-016	CEMENTING PLUG SW ALUM TOP	8 5/8	IN	132.00	132.00
		1	EA		
504-280	MIDCON-2 STANDARD CEMENT	140	SK	14.17	1,983.80
504-136	CEMENT - 40/60 POZMIX STANDARD	110	SK	8.71	958.10
507-210	FLOCELE	70	LB	2.09	146.30
509-406	ANHYDROUS CALCIUM CHLORIDE	7	SK	46.90	328.30
500-207	BULK SERVICE CHARGE	276	CFT	1.66	458.16
500-306	MILEAGE CMTG MAT DEL OR RETURN	759.62	TMI	1.25	949.53
JOB PURPOSE SUBTOTAL					6,823.44
INVOICE SUBTOTAL					6,823.44
DISCOUNT - (BID)					3,957.56-
INVOICE BID AMOUNT					2,865.88
*- KANSAS STATE SALES TAX					102.01
*- PRATT COUNTY SALES TAX					20.80
<b>INVOICE TOTAL - PLEASE PAY THIS AMOUNT</b>					<b>62,988.69</b>

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 Wichita, Kansas

*LYON  
 IDE - X  
 Cement Surface*

AFFIX JOB TKT

ORDER NO. 10900

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.



**HALLIBURTON**

**HALLIBURTON ENERGY SERVICES**

CHARGE TO:

*Oil Producers of KS Inc*  
 ADDRESS  
*1318 E. First St c/o Brad Sinoky*  
 CITY, STATE, ZIP CODE  
*58 Pratt KS 67124*

CUSTOMER COPY

TICKET

No.

460032 - 1

PAGE 1 OF 2

**ORIGINAL**

1906-Q	WELL/PROJECT NO. #1	LEASE Lyon	COUNTY/PARISH Comanche	STATE KS	CITY/OFFSHORE LOCATION	DATE 11.12.98	OWNER Same
SERVICE LOCATIONS	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Duke Drlg	RIG NAME/NO. #2	SHIPPED VIA truck	DELIVERED TO loc	ORDER NO.
1. Pratt KS	WELL TYPE 02	WELL CATEGORY 01	JOB PURPOSE 010	WELL PERMIT NO. API# 033-209-80000		WELL LOCATION Land	
4. Referral Location	INVOICE INSTRUCTIONS						

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT	
			LOC	ACCT	DF		QTY.	U/M			
	000.117		1			MILEAGE 53387# RDTP	65	mi	1 ea	3 65	237.25
	000.119		1			Crew mileage 421269# RDTP	65	mi	1 ea	2 15	w/c
	001.016		1			Pump Charge / Trk	663	ft	4 hrs	1630	1630.00
	030.016		1			Top 5 wiper Plug	1	ea	8 9/8 in	132	132.00
						Bulk Trk # 100502					4824.19

**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.

X

DATE SIGNED 11.12.98 TIME SIGNED 1530  A.M.  P.M.

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

TYPE LOCK	SUB SURFACE SAFETY VALVE WAS:		PAGE TOTAL <b>6823.44</b>
BEAN SIZE	<input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN	TYPE OF EQUALIZING SUB. CASING PRESSURE	
DEPTH	TUBING SIZE	TUBING PRESSURE WELL DEPTH	
SPACERS	TREE CONNECTION	TYPE VALVE	
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE			FROM CONTINUATION PAGE(S)

**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)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
	<i>John J. Ambrosio</i>	<i>David L Scott</i>	B9475	<i>D L Scott</i>

**ORIGINAL**

ORIGINAL



Halliburton Energy Services

DATE: 11-12-1998                      TIME: 11:56:30                      SERVICE TICKET: 460032  
 PRATT-25555                      BULK TICKET ONLY: 100502  
 JOB PURPOSE: SURFACE    COMPANY TRUCK: :52530    DRIVER: O.MUNZ  
 CUSTOMER: OIL PRODUCERS OF KS INC. LEASE & WELL#: LYON #1

504-280	MIDCON CEMENT	STANDARD	140	SKS.	14.17	1983.80
504-136	40/60 POZMIX CEMENT		110	SKS.	8.71	958.10
507-210	FLOCELE		70	LBS.	2.09	146.30
509-406	CALCIUM CHLORIDE		7	SKS.	46.90	328.30
500-207	SERVICE CHARGES		276	CU FT	1.66	458.16
					TOTAL	3874.66
500-306	WEIGHT: 23373	MILES: 65	TON MILES: 759.62	1.25		949.53
			TOTAL BOOK PRICE OF BULK TICKET:			\$ 4824.19

500-225 RETURN SERVICE CHARGES \_\_\_\_\_ CU FT 1.66 \_\_\_\_\_  
 500-306 WEIGHT: \_\_\_\_\_ RETURN MILES: 65 TON MILES: \_\_\_\_\_ 1.25 \_\_\_\_\_

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# JOB SUMMARY

TICKET #	460032	TICKET DATE	11/12/98
BDA / STATE	KS	COUNTY	Pomanche
PSL DEPARTMENT	Stim	<b>ORIGINAL</b>	
CUSTOMER REP / PHONE	John Armbruster		
API / UWI #	033-209-80000	JOB PURPOSE CODE	010

REGION	North America	INVA/COUNTRY	Mid Cont
MBU ID / EMP #	MCPR 0596 B9495	EMPLOYEE NAME	D L Scott
LOCATION	W # K5	COMPANY	Dil Producers of KS Inc
TICKET AMOUNT	6823.44	WELL TYPE	02
WELL LOCATION	W Coldwater K5	DEPARTMENT	Cmt
LEASE / WELL #	Lyon #1	SEC / TWP / RNG	21 32 19

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
D Scott B9495	5						
C Nixon H1660	5						
O Munz J1208	5						

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
53387	120						
421269	120						
52530	120						

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

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug 5 wiper	1	Hausco
Head & manifold	1	"
Packer	1	
Other		

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			

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
11/12	11:30	14:30	17:41	18:17

WELL DATA							
	NEW	USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	4		28723	8 7/8	KB	860	
Liner							
Liner							
Tbg/D.P.							
Tbg/D.P.							
Open Hole	450'	28 mpf		12 1/4	860	865	SHOTS/FT.
Perforations	223'	23 mpf					
Perforations							
Perforations							

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
11/12	5	11/12	30 MIN	010 8 7/8 Surface
<b>TOTAL</b>		<b>TOTAL</b>		

HYDRAULIC HORSEPOWER Avail. \_\_\_\_\_ Used \_\_\_\_\_  
 AVERAGE RATES IN BPM  
 Disp. \_\_\_\_\_ Overall \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_ Reason Requested  
 FEET 15

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
Head	140	mid con II	B	3% CC 1/2 # flocele	2.94	11.4
Tail	110	40/60por	B	2% Gel 3% CC	1.28	14.1

Circulating \_\_\_\_\_ Displacement 1000 \_\_\_\_\_  
 Breakdown \_\_\_\_\_ Maximum \_\_\_\_\_  
 Average \_\_\_\_\_ Frac Gradient \_\_\_\_\_  
 Shut In: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_  
 Preflush: Gal - BBI \_\_\_\_\_ Type \_\_\_\_\_  
 Load & Bkdn: Gal - BBI \_\_\_\_\_ Pad: BBI - Gal \_\_\_\_\_  
 Treatment Gal - BBI \_\_\_\_\_ Disp: BBI - Gal 40.7  
 Cement Slurr Gal - BBI \_\_\_\_\_  
 Total Volume Gal - BBI 73.3 + 25 = 98.3

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_  
**THE INFORMATION STATED HEREIN IS CORRECT** CUSTOMER'S REPRESENTATIVE SIGNATURE \_\_\_\_\_

TICKET #	TICKET DATE
BDA / STATE	COUNTY
PSL DEPARTMENT	<b>ORIGINAL</b>
CUSTOMER REP / PHONE	
API / UWI #	
JOB PURPOSE CODE	

REGION North America	NWA/COUNTRY
MBU ID / EMP #	EMPLOYEE NAME
LOCATION	COMPANY
TICKET AMOUNT	WELL TYPE
WELL LOCATION	DEPARTMENT
LEASE / WELL #	SEC / TWP / RNG

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

CHART NO. #	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1130							Called Out
	1430							On loc w/Trks Safety mtg
								Csg on Bottom Circ w/Rig
								Rig up Howco
	1751	6				200		St Mixing Head Cmt @ 11.4ppg 140 sks
	1804	6	73.3			175		St mixing Tail Cmt @ 14.1 ppg 110 sks
	1809	6	25			6		Finish mixing Cmt
	1828							Chose In + Release Top Swiper Plug
	1809	5				150		St Disp w/H <sub>2</sub> O
	1817	6	40.7			235		Disp Pumped Chose In w.H. <u>Circ 15 Bbl's Cmt = 28 sks</u>
								Job Complete
								Thank you
								Scotty

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CONS.

OIL PRODUCERS INC., OF KS.  
INITIAL COMPLETION REPORT

WELL - LYON #1

LEGAL - NW/NW/SE OF 21-32s-19w IN COMANCHE CO. KS.

API# - 15-033-20,980

K.B. - 8' ABOVE G.L. @ 1961'

G.L. - 1953'

SURFACE CSN - 8 5/8" @ 663' WITH 250 SX

RTD - 5400'

LTD - 5395' (ELI 11/20/98)

PRODUCTION CSN - 4 1/2", 10.5# @ 5394' WITH 215 SX EA-2.

TOP OF CEMENT - 4125'

PBTD - 5323' (ELI WIRELINE LOG 11/27/98) CIBP - 5150' (SET 1/25/99)

PERFORATIONS      MISSISSIPPI-----5115'-5127' 4 SHOTS/FT. 12/3/98  
                          MISSISSIPPI-----5156'-5158' 4 SHOTS/FT. 12/3/98 (UNDER PLUG)  
                          MISSISSIPPI-----5180'-5183' 4 SHOTS/FT. 12/3/98 (UNDER PLUG)  
                          MISSISSIPPI-----5202'-5205' 4 SHOTS/FT. 12/2/98 (UNDER PLUG)

TUBING RAN - 15' MA, SN, 165 JTS. USED T&D 2 3/8" TUBING (5124.62')

TUBING SET @ - 5145.72'

AVERAGE JT. - 31.05'

PUMP RAN - 2" X 1 1/2" X 14' RWTC WITH 6' GAS ANCHOR.

RODS RAN - PUMP, 2' X 3/4" SUB, 149 - 3/4" RODS, 55 - 7/8" RODS, 1 1/4" X 16' P.R.

PUMP SET @ - 5130.72'

PUMPING UNIT - KINCAID 160 WITH 74" STROKE, SERIAL # - 16085063

ENGINE - CONTINENTAL C-96

TANK BATTERY -      MCDONALD 6' X 15' HEATER TREATER, SERIAL # 4564  
                          2 - 10' X 12' 210 BBL STEEL STOCK TANKS  
                          10' X 12' 210 BBL FIBERGLASS WATER TANK.  
                          SKID MOUNTED LINE HEATER AND VERTICAL SEPARATOR.  
                          (CONSISTING OF 20" X 7' VERTICAL SEPARATOR, 500# WP, W/MAN. DUMP.  
                          AND BS&B HORIZONTAL HEATER TREATER.

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11/27/98

ELI WIRELINE ON LOCATION TO RUN CORRELATION & SONIC CEMENT BOND LOG.  
FOUND TOTAL DEPTH - 5323' (THIS IS 39' HIGH TO TOP OF INSERT @ 5362')  
FOUND TOP OF CEMENT - 4125' WITH GOOD CEMENT BONDING ACROSS PAY ZONES.

12/1/98

COMANCHE WELL SERVICE ON LOCATION, RIGGED UP D-D POLE UNIT.  
 SWABBED 4 1/2" CASING DOWN TO 4500' FROM SURFACE.  
 SHUT DOWN FOR THE NIGHT.

12/2/98

ELI WIRELINE ON LOCATION TO PERFORATE PROPOSED INTERVAL IN LOWER MISSISSIPPI.  
PERFORATED MISSISSIPPI - 5202'-5205' WITH 4 SHOTS/FT. USING EXPENDABLE CSN GUN.

COMANCHE SWABBED 4 1/2" CASING DOWN TO TOTAL DEPTH.  
1/2 HR. NATURAL TEST PERFS 5202'-05' - RECOVERED NO FLUID, WITH SHOW OF GAS.

HALLIBURTON ON LOCATION TO ACIDIZE MISS PERFS 5202'-05' WITH 500 GALS 15% DSFE ACID.

ACIDIZE MISS PERFS 5202'-05' AS FOLLOWS:

PUMP 500 GALS 15% DSFE ACID.  
 LOAD HOLE WITH FIELD BRINE.  
 PRESSURED SLOWLY IN INTERVALS TO 1300 psi, BROKE BACK.  
 DISPLACED 200 GALS ACID @ 1 BPM - 310 psi TO 143 psi.  
 DISPLACED 300 GALS ACID @ 2 BPM - 153 psi.  
ISIP - 100 psi, VAC - < 1 MINUTE, TOTAL LOAD - 94 BBLs.

COMANCHE RIGGED TO SWAB BACK ACID LOAD & TEST MISS PERFS 5202'-05' AFTER ACID.

TEST LOWER MISS PERFS 5202'-05' AFTER ACID AS FOLLOWS:

SWAB WELL DOWN, RECOVERED 100.20 BBLs, VERY GOOD SHOW OIL & GAS.  
1/2 HR. TEST - RECOVERED 6.68 BBLs, 100% HIGH GRAVITY OIL, TEST GAS @ 110 MCFPD.  
1/2 HR. TEST - RECOVERED 5.01 BBLs, 100% HIGH GRAVITY OIL, TEST GAS @ 121 MCFPD.

ELI WIRELINE ON LOCATION TO PERFORATE UPPER MISS INTERVALS.

DUE TO COLLAR LOCATOR MALFUNCTION COULD NOT PERFORATE TONIGHT.  
 SHUT DOWN FOR THE NIGHT.

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12/3/98

SICP - LIGHT BLOW, FLUID LEVEL - 400' DOWN, FILL-UP OIL% - ASSUMING 100%. CONSERVATION DIVISION  
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SBHP - LOWER MISS PERFS 5202'-05' CALCULATES 1695 psi

ELI WIRELINE ON LOCATION TO PERFORATE PROPOSED INTERVALS IN UPPER MISSISSIPPI.  
PERFORATED MISSISSIPPI-----5180'-5183' 4 SHOTS/FT. USING EXPENDABLE 32 GRAM CSN GUN.  
PERFORATED MISSISSIPPI-----5156'-5158' 4 SHOTS/FT. USING EXPENDABLE 32 GRAM CSN GUN.  
PERFORATED MISSISSIPPI-----5115'-5127' 4 SHOTS/FT. USING EXPENDABLE 32 GRAM CSN GUN.

JW TRUCKING ON LOCATION, DELIVERED 169 JTS. USED, TESTED, DRIFTED, & HUB MACHINED  
 2 3/8" TUBING (5283.40'), ALL PURCHASED FROM A&W SUPPLY.

HALLIBURTON ON LOCATION WITH 4 1/2" RBP PLUG AND RTTS PACKER.

RIH - WITH TOOLS AND 2 3/8" TUBING.



12/3 CONT.STRADDLE MISS PERFS 5180'-83' WITH TOOLS.

HALLIBURTON ON LOCATION TO ACIDIZE MISS PERFS 5180'-83' WITH 500 GALS 15% DSFE ACID.

ACIDIZE MISS PERFS 5180'-83' AS FOLLOWS:

PUMP 500 GALS DSFE ACID.

SPOT ACID @ TOOL WITH 8 BBLs FIELD BRINE. CLOSE BY-PASS.

PRESSURED TO 50 psi, START FEEDING.

DISPLACED ACID @ 2 BPM - 280 psi.

ISIP - VAC, TOTAL LOAD - 32 BBLs.

COMANCHE RIGGED UP TUBING SWAB TO SWAB BACK ACID LOAD &amp; TEST MISS PERFS 5180'-83' AFTER ACID.

TEST MISS PERFS 5180'-83' AFTER ACID AS FOLLOWS:

FOUND FLUID LEVEL @ 1000' FROM SURFACE.

SWAB WELL DOWN, RECOVERED 16.70 BBLs. TEST GAS @ 101 MCFPD.

SHUT DOWN FOR THE NIGHT.

12/4/98SITP - 365 psi, FLUID LEVEL - 2300' DOWN, FREE OIL - 1450', OVERNIGHT OIL% - 50%SBHP - MISS PERFS 5180'-83' CALCULATES 1596 psi.CONTINUE TESTING MISS PERFS 5180'-83' AS FOLLOWS:

SWAB WELL DOWN &amp; RECOVERED 10.3 BBLs.

½ HR. TEST - RECOVERED 3.34 BBLs, 100% HIGH GRAVITY OIL, TEST GAS @ 108 MCFPD.NOTE: - IT IS DETERMINED THAT MISS PERFS 5202'-05' AND 5180'-83' ARE MOST LIKELY COMMUNICATED, DUE TO LOW BREAK DOWN PRESSURES ON ACID JOB OF PERFS 5180'-83', AND VERY SIMILAR TEST RESULTS AFTER ACID OF EACH.

HALLIBURTON ON LOCATION TO MOVE TOOLS.

PICK UP &amp; STRADDLE MISS PERFS 5156'-58' WITH RBP &amp; RTTS.

HALLIBURTON ON LOCATION TO ACIDIZE MISS PERFS 5156'-58' WITH 500 GALS 15% DSFE ACID.

ACIDIZE MISS PERFS 5156'-58' AS FOLLOWS:

PUMP 500 GALS 15% DSFE ACID.

SPOT ACID @ TOOL WITH 8 BBLs FIELD BRINE. CLOSE BY-PASS.

PRESSURED TO 1200 psi &amp; STARTED FEEDING @ 1/3 BPM.

DISPLACED 50 GALS ACID @ 1 BPM - 375 psi TO 200 psi.

DISPLACED 450 GALS ACID @ 2 BPM - 250 psi TO VAC.

ISIP - VAC, TOTAL LOAD - 32 BBLs.RECEIVED  
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Kansas

COMANCHE RIGGED TO SWAB BACK ACID LOAD &amp; TEST MISS PERFS 5156'-58' AFTER ACID.

TEST MISS PERFS 5156'-58' AFTER ACID AS FOLLOWS:

FOUND FLUID LEVEL @ 1300' DOWN.

SWAB WELL DOWN. RECOVERED 28.35 BBLs. GOOD SHOW OF OIL &amp; GAS.

½ HR. TEST - RECOVERED 5.01 BBLs, 36% OIL. TEST GAS @ 100 MCFPD.

HALLIBURTON MOVED TOOLS UP &amp; STRADDLED MISS PERFS 5115'-27'.

12/4 CONT.

HALLIBURTON ON LOCATION TO ACIDIZE MISS PERFS 5115'-27' WITH 1500 GALS 15% DSFE ACID.

ACIDIZED MISS PERFS 5115'-27' AS FOLLOWS:

PUMP 1500 GALS 15% DSFE ACID, CLOSE BY-PASS @ 825 GALLS WITH ACID ON BOTTOM.

PRESSURED TO 1600 psi, BROKE BACK TO 850 psi &amp; FEEDING.

DISPLACED 250 GALS ACID @ 2 BPM - 800 psi TO 550 psi.

DISPLACED 850 GALS ACID @ 3 BPM - 900 psi TO 350 psi.

DISPLACED 400 GALS ACID @ 3.5 BPM - 700 psi TO 650 psi.

ISIP - VAC, TOTAL LOAD - 57 BBLS.

COMANCHE RIGGED UP TUBING SWAB TO SWAB BACK ACID LOAD &amp; TEST MISS PERFS 5115'-27' AFTER ACID.

TEST MISS PERFS 5115'-27' AFTER ACID AS FOLLOWS:

FOUND FLUID LEVEL @ 900' FROM SURFACE.

MADE 1 SWAB RUN &amp; WELL KICKED OFF FLOWING. VERY STRONG GAS.

PUT WELL TO PIT USING SIDE STATIC GAS MEASUREMENT. TEST GAS @ APPROX 4000 MCFPD.

INSTALL ORIFICE WELL TESTER, FLOWING TO PIT.

½ HR. FLOW TEST - MEASURE GAS @ 2500 MCFPD. HEAVY MIST OF FLUID.½ HR. FLOW TEST - MEASURE GAS @ 1612 MCFPD. HEAVY MIST OF FLUID, 28% OIL.½ HR. FLOW TEST - MEASURE GAS @ 1264 MCFPD. HEAVY MIST OF FLUID, 27% OIL.½ HR. FLOW TEST - MEASURE GAS @ 1064 MCFPD. HEAVY MIST OF FLUID, 36% OIL.15 MINUTE SIP - 300 psi.

SHUT DOWN FOR THE WEEKEND.

12/7/98SITP - 1465 psi, SBHP - (MISS PERFS 5115'-27') CALCULATES 1715 psi.

BLEW WELL DOWN, STARTED FLOWING.

HALLIBURTON ON LOCATION TO RE-ACIDIZE MISS PERFS 5115'-27' WITH 3000 GALS 15% SGA ACID AND 3000 GALS 25# GELLED WATER TO MAKE UP PAD ACID STIMULATION TREATMENT.

RE-ACIDIZED MISS PERFS 5115'-27' AS FOLLOWS:

PUMP 500 GALS 15% SGA ACID, DISPLACE @ 5 BPM - 550 psi TO 30 psi.

PUMP 500 GALS 25# GELLED WATER, DISPLACE @ 6 BPM - 250 psi.

PUMP 500 GALS 15% SGA ACID, DISPLACE @ 5 BPM - 400 psi.

PUMP 500 GALS 25# GELLED WATER, DISPLACE @ 5 BPM - 250 psi.

PUMP 500 GALS 15% SGA ACID, DISPLACE @ 5 BPM - 750 psi.

PUMP 500 GALS 25# GELLED WATER, DISPLACE @ 5 BPM - 700 psi.

PUMP 500 GALS 15% SGA ACID, DISPLACE @ 4 BPM - 800 psi.

PUMP 500 GALS 25# GELLED WATER, DISPLACE @ 4 BPM - 650 psi.

PUMP 500 GALS 15% SGA ACID, DISPLACE @ 4 BPM - 900 psi.

PUMP 500 GALS 25# GELLED WATER, DISPLACE @ 4 BPM - 700 psi.

PUMP 500 GALS 15% SGA ACID, DISPLACE @ 4 BPM - 700 psi.

PUMP 500 GALS 25# GELLED WATER, DISPLACE @ 4 BPM - 800 psi.

FLUSH WITH 20 BBLS

ISIP - 480 psi, VAC - 3 MINUTES.TOTAL LOAD - 161 BBLS.

HALLIBURTON RELEASED PACKER, LATCHED ONTO RBP.

POOH - WITH TUBING AND TOOLS.RECEIVED  
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12/7 CONT.

COMANCHE RIGGED TO RUN PRODUCTION TUBING.

RAN PRODUCTION TUBING AS FOLLOWS:

MUD ANCHOR X 2 3/8"	15.00'
SEATING NIPPLE X 2 3/8"	1.10'
169 JTS. 2 3/8" TUBING	5254.86'
K.B. (8' < 3' ABOVE G.L.)	5.00'
<u>TUBING SET @</u>	5275.96'
SEATING NIPPLE SET @	5260.96'

PACKED TUBING OFF.

COMANCHE RIGGED TO SWAB BACK ACID LOAD OF PERFS 5115'-27' AND TEST ALL MISS PERFORATED INTERVALS TOGETHER VIA 2 3/8" TUBING SWAB.

SWAB BACK ACID LOAD AND TEST ALL MISS PERFS AS FOLLOWS:

FOUND FLUID LEVEL @ 800' FROM SURFACE.

SWAB 1 1/2 HRS. RECOVERED 35 BBLs. WITH GOOD SHOW OF GAS AND 10% OIL.

SHUT DOWN FOR THE NIGHT.

12/8/98

SICP - 560 psi, SITP - 80 psi

CONTINUE TESTING ALL MISS PERFORATIONS AS FOLLOWS:

SWAB TUBING FOR APPROX 5 HRS RECOVERED 78 BBLs, 50% OIL, CASING PRESSURE 1100 psi. WELL KICKED OFF FLOWING. FLOW WELL TO PIT.

1/2 HR. FLOW TEST TO PIT - MEASURE GAS @ 1600 MCFPD, OIL% = 50%, FCP - 770 psi.

1/2 HR. FLOW TEST TO PIT - MEASURE GAS @ 1300 MCFPD, OIL% = 55%, FCP - 600 psi.

1/2 HR. FLOW TEST TO PIT - MEASURE GAS @ 1233 MCFPD, OIL% = 46%, FCP - 500 psi.

1/2 HR. FLOW TEST TO PIT - MEASURE GAS @ 1105 MCFPD, OIL% = 32%, FCP - 420 psi.

START FLOWING WELL TO TANK TO MEASURE FLUID VOLUMES.

1/2 HR. FLOW TEST TO TANK - RECOVERED 5.01 BBLs, 38% OIL, FCP - 380 psi.

1/2 HR. FLOW TEST TO TANK - RECOVERED 6.68 BBLs, 42% OIL, FCP - 360 psi.

SHUT DOWN FOR THE NIGHT.

12/9/98

SICP - 1230 psi, SITP - 1000 psi. FLUID LEVEL - 1600' FROM SURFACE.

SBHP - CALCULATES 1554 psi.

BLOW TUBING AND CASING DOWN. WELL MISTING OIL ON ANNULUS BUT TBG DEAD ENOUGH TO RUN RODS.

RAN BOTTOM HOLE PUMP AND RODS AS FOLLOWS:

2" X 1 1/2" X 14' RWTC WITH 6' GAS ANCHOR	16.00'
2' X 3/4" ROD SUB	2.00'
159 - 3/4" - D INSPECTED RODS	3975.00'
50 - 7/8" - D INSPECTED RODS	1250.00'
4' X 7/8" ROD SUB	4.00'
1 1/4" X 16' POLISHED ROD	16.00'
<u>PUMP SET @</u>	5260.96'

CLAMPED RODS OFF.

COMANCHE RIGGED DOWN & MOVED OFF LOCATION.

LEEPER ON LOCATION. BUILT TANK BATTERY GRADE @ ROAD TO SOUTH WEST OF WELL.

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STATE OIL AND GAS COMMISSION  
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CONSERVATION DIVISION  
Wichita Kansas

ORIGINAL

12/10/98

DICKS CONSTRUCTION ON LOCATION TO SET TANK BATTERY.

SET 6' X 15' HEATER TREATER - McDonald 25# WP, SERIAL # - 4564. (PURCHASED A&W SUPPLY)

SET 2 - 10' X 12' 210 BBL STEEL STOCK TANKS - (PURCHASED FROM DICK MOORE)

STREMMEL ON LOCATION TO ASSIST TANK BATTERY CONSTRUCTION.

STREMMEL ON LOCATION TO SET SKID MOUNTED LINE HEATER & VERTICAL SEPARATOR.

SKID MOUNTED LINE HEATER & SEPARATOR - CONSISTING OF 20" X 7' VERTICAL 500# WP SEPARATOR WITH MANUAL DUMP. AND BS&B HORIZONTAL LINE HEATER.

NOTE: - HEATER AND SEPARATOR TRANSFERRED FROM CAROTHERS BROTHERS.

12/11/98

GYP HILLS ROUSTABOUTS ON LOCATION, HOOKED UP WELL HEAD.

LAI DUAL LEAD LINES (BOTH 2 3/8" TUBING) FROM WELL HEAD TO TANK BATTERY.

LAI D 1" SCH - 160 PVC GAS SUPPLY LINE BACK FROM HEATER TREATER TO ENGINE.

STREMMEL ON LOCATION TO SET WATER TANK FROM SHERTZ LEASE (OPIK STOCK)

SET 10' X 12' FIBERGLASS WATER TANK 200 BBL

12/12/98

GABEL LEASE SERVICE ON LOCATION WITH PUMPING UNIT FROM RADER LEASE.

SET KINCAID 160 PUMPING UNIT - SERIAL # - 16085063, WITH 74" STROKE

SET CONTINENTAL C-96 ENGINE.

KANSAS GAS SUPPLY IS IN THE PROCESS OF LAYING GAS LINE AND SETTING METERING STATION. SHOULD HAVE WELL IN PRODUCTION WITHIN 30-45 DAYS.

THIS WELL SHOULD BE A VERY NICE PRODUCER.

1/16/99

KANSAS GAS SUPPLY HAS GAS LINE METER RUN AND METER IN PLACE.

SITP - 1675 psi., SICP - 1675 psi.

PUT WELL IN SERVICE SELLING GAS FROM ANNULUS ONLY. LEFT UNIT SHUT DOWN.

1/17/99

WELL PRODUCED 163 MCFPD. FCP - 320 psi. OPEN CHOKE UP.

PUT UNIT IN SERVICE.

1/18/99

WELL PRODUCED 230 MCFPD, 25 BOPD, 13 BWPD. FCP - 120 psi. (RIDING LINE PRESSURE) RECEIVED  
STATE CONSERVATION COMMISSION

1/19/99

WELL PRODUCED 250 MCFPD, 18 BOPD, 15 BWPD.

GAS CHART WASHING. IT WAS DETERMINED THAT BOTTOM HOLE PUMP COULD BE BAD DUE TO LOW PRODUCTION LEVELS AS COMPARED TO COMPLETION VOLUMES.

COMANCHE WELL SERVICE ON LOCATION. CHANGED OUT BOTTOM HOLE PUMP.

PUT WELL BACK IN SERVICE.

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Wichita Kansas

1/20/99

WELL PRODUCED 190 MCFPD, 8 BOPD, AND 23 BWPD.  
 SHOT FLUID LEVEL AND DETERMINED THAT WELL IS PUMPED DOWN.  
 DECISION MADE TO PULL WELL AND TEST VIA CASING SWAB, AND ATTEMPT TO DETERMINE  
 CAUSE OF LOW PRODUCTION LEVELS.

COMANCHE WELL SERVICE ON LOCATION. RIGGED UP D-D POLE UNIT.  
POOH - WITH RODS AND PUMP.  
 LEFT WELL OPEN ON ANNULUS TO SELL GAS OVERNIGHT.  
 SHUT DOWN FOR THE NIGHT.

1/21/99

WELL PRODUCED 150 MCFPD VIA ANNULUS WITHOUT PUMPING UNIT.  
POOH - WITH TUBING.

COMANCHE RIGGED UP 4 1/2" CASING SWAB.

**TEST ALL MISS PERFS TOGETHER VIA CASING SWAB AS FOLLOWS:**

SWAB WELL DOWN, RECOVERED 3.34 BBLS, 100% OIL.

1/2 HR. SWAB TEST - RECOVERED NO FLUID, GOOD GAS.

1 HR. SWAB TEST - RECOVERED 1.67 BBLS, 100% LIGHT OIL, TEST GAS @ 189 MCFPD.

1 HR. SWAB TEST - RECOVERED 1.67 BBLS, 100% LIGHT OIL, TEST GAS @ 193 MCFPD.

SHUT DOWN FOR THE NIGHT.

1/22/99

SICP - 595 psi. OPEN WELL UP TO BLOW DOWN.  
 WELL STARTED FLOWING A MIST OF VERY EMULSIFIED FLUID.  
 FLOW WELL FOR 1 1/2 HRS. RECOVERED 3 BBLS OF EMULSIFIED FLUID. WELL DIED.

NOTE: - IT IS DETERMINED THAT EMULSION IS POTENTIAL REASON FOR PRODUCTION DECLINE.  
 HALLIBURTON ON LOCATION. RECOVERED SAMPLE OF EMULSION AND TOOK TO LAB FOR  
 ANALYSIS. WE WILL CONTINUE TO SWAB TEST FOR REMAINDER OF DAY IN ATTEMPT  
 TO CLEAN UP WELL OF EMULSIFIED FLUID. HALLIBURTON WILL ANALYZE AND ADVISE  
 OF TREATMENT RECOMMENDATION.

**CONTINUE TO SWAB TEST AS FOLLOWS:**

SWAB WELL DOWN, RECOVERED 3.34 BBLS OF EMULSIFIED FLUID BUT CLEANING UP.

1 HR. SWAB TEST - RECOVERED 1.67 BBLS, 100% CLEAN OIL, NO EMULSION, TEST GAS @ 216 MCF

1 HR. SWAB TEST - RECOVERED 3.34 BBLS, 100% CLEAN OIL, NO EMULSION, TEST GAS @ 222 MCF

1 HR. SWAB TEST - RECOVERED 1.67 BBLS, 71% CLEAN OIL, NO EMULSION, TEST GAS @ 216 MCF

1 HR. SWAB TEST - RECOVERED 1.67 BBLS, 66% CLEAN OIL, NO EMULSION, TEST GAS @ 216 MCF

1 HR. SWAB TEST - RECOVERED .83 BBLS, 100% CLEAN OIL, NO EMULSION, TEST GAS @ 200 MCF

SHUT DOWN FOR WEEKEND TO OBTAIN DAILY PRESSURE BUILD UP TEST.

1/23/99

SICP - 430 psi

1/24/99

SICP - 690 psi

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ORIGINAL

1/25/99

SICP - 1010 psi.

NOTE: HALLIBURTON ANALYZED FLUID SAMPLE AND DETERMINED THAT WE HAD PRECIPITATED SOLIDS IN FORM OF IRON SULPHIDE. THE FLUID HAD BROKE OUT ON ITS OWN RULING OUT THE EMULSION THEORY. DECISION MADE TO SET CIBP OVER LOWER THREE MISSISSIPPI INTERVALS AND RE-TREAT UPPER MISS INTERVAL 5115'-27' WITH NITROGEN AND ACID IN AN EFFORT TO CLEAN OUT ANY PRECIPITATED SOLIDS OR FINES WITHIN THE FORMATION.

BLEW WELL DOWN FOR APPROX 4 HRS, UNTIL GAS VOLUMES AND FLUID MIST TO SURFACE HAD SUBSIDED ENOUGH TO ALLOW SETTING OF BRIDGE PLUG.

ELI WIRELINE ON LOCATION TO SET 4 1/2" CIBP OVER LOWER MISS INTERVALS.  
SET 4 1/2" CIBP - 5150'.

COMANCHE RIGGED TO RUN PRODUCTION TUBING.

RAN PRODUCTION TUBING AS FOLLOWS:

MUD ANCHOR X 2 3/8"	15.00'
SEATING NIPPLE X 2 3/8"	1.10'
165 JTS. 2 3/8" TUBING	5124.62'
K.B. (8' < 3' ABOVE G.L.)	<u>5.00'</u>
<u>TUBING SET @</u>	5145.72'
SEATING NIPPLE SET @	5130.72'

HALLIBURTON ON LOCATION TO RE-TREAT UPPER MISS PERFORATIONS 5115'-27' WITH 10,000 GALS 70 QUALITY FOAMED ACID.

RE-ACIDIZE MISS PERFS 5115'-27' AS FOLLOWS:

PUMP 10,000 GALS 70 Q FOAMED ACID @ 6 BPM - 1800 psi TO 2050 psi.

PUMP 3,000 GALS 70 Q FOAMED WATER FLUSH @ 6 BPM - 2050 psi.

ISIP - 1850 psi, 30 MIN SIP - 1540 psi/

TTL LIQUID LOAD - 94 BBLs, TTL NITROGEN - 205,000 SCF.

TTL ACID - 3000 GALS 15% SGA.

COMANCHE RIGGED UP BLOW LINE TO PIT FROM TUBING. RIGGED TO FLOW BACK NITROGEN FOAM TO PIT TO CLEAN UP.

FLOW TEST AFTER RE-TREAT AS FOLLOWS:

OPEN WELL UP TO PIT. SITP - 1540 psi.

1/2 HR. FLOW TO PIT - FCP - 750#, FTP - 100#, ESTIMATED FLOW RATE > 3000 MCFPD. HEAVY FOAM.

1/2 HR. FLOW TO PIT - FCP - 575 #, FTP - 50#, ESTIMATED FLOW RATE 2000 MCFPD, HEAVY MIST FL.

TURN WELL DOWN PIPELINE THROUGH METER.

1 HR. FLOW DOWN PIPELINE - FCP - 580#, FTP - 110#, DELIVERING 550 MCFPD. BRINGING FLUID.

LEFT WELL FLOWING INTO PIPELINE OVERNIGHT.

1/26/99

WELL DELIVERING 155 MCFPD AGAINST 110# PIPELINE.

WELL PRODUCED 3 BO, AND 18 BW IN 11 HRS. OVERNIGHT.

FCP - 580 psi.

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Wichita, Kansas

1/26 CONT.

DECISION MADE TO RUN BOTTOM HOLE PUMP AND RODS. BLEW CASING AND TUBING DOWN TO ALLOW FOR RUNNING OF PUMP & RODS.

RAN PUMP & RODS AS FOLLOWS:

2" X 1 1/2" X 14' RWTC WITH 6' GAS ANCHOR	16.00'
2' X 3/4" ROD SUB	2.00'
149 - 3/4" RODS	3725.00'
55 - 7/8" RODS	1375.00'
1 1/4" X 16' POLISHED ROD	<u>16.00'</u>
<u>PUMP SET @</u>	5130.72'

PUT WELL IN SERVICE @ 9.5 SPM X 74" STROKE.

COMANCHE WELL SERVICE RIGGED DOWN & MOVED OFF LOCATION.

1/27/99

WELL PRODUCED 270 MCFPD, 18 BO, & 54 BW.

SHOT FLUID LEVEL, WELL PUMPED OFF.

SLOW PUMPING UNIT DOWN TO 6 SPM X 74" STROKE.

PUMP CAPACITY @ 100% EFFICIENCY = 120 BTFPD, @ 80% EFFICIENCY = 96 BTFPD.

1/28/99

WELL PRODUCED 200 MCFPD, 8 BO, AND 8 BW.

1/29/99

WELL PRODUCED 200 MCFPD, 10 BO, AND 3 BW

END OF REPORT

BRAD SIROKY

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FEB 25 1999

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Wichita Kansas