

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 8061
Name: Oil Producers, Inc. of Kansas
Address: P.O. Box 8647
City/State/Zip: Wichita, KS 67208
Purchaser: Oneok
Operator Contact Person: Diana Richecky **RECEIVED**
Phone: (316) 681-0231
Contractor: Name: Val Energy, Inc. **FEB 23 2004**
License: 5822 **KCC WICHITA**
Wellsite Geologist: Jon D. Christensen

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

<u>07/25/2003</u>	<u>07/28/2003</u>	<u>11/24/2003</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 081-21489-00-00
County: Haskell Approximately 70' South of
_____ - c - s/2 Sec. 21 Twp. 30 S. R. 32 East West
1250 feet from S / N (circle one) Line of Section
2640 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Leonard Well #: 1-21
Field Name: Hugoton
Producing Formation: Chase Group
Elevation: Ground: 2873' Kelly Bushing: 2878'
Total Depth: 2800' Plug Back Total Depth: 2789'
Amount of Surface Pipe Set and Cemented at 646 Feet
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.
ALT I W HM 10-2-06

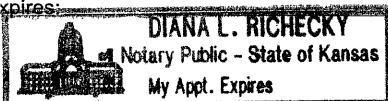
Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content 27500 ppm Fluid volume 250 bbls
Dewatering method used Evaporate
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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

Signature: _____
Title: PRESIDENT Date: 2/19/2004
Subscribed and sworn to before me this 19 day of February,
2004

Notary Public: Diana L. Richecky
Date Commission Expires: 1/12/2008



KCC Office Use ONLY
 Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: Oil Producers, Inc. of Kansas Lease Name: Leonard Well #: 1-21
 Sec. 21 Twp. 30 S. R. 32 East West County: Haskell

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy) List All E. Logs Run: Dual Receiver Cement Bond Log, Sonic Log, Dual Induction Log, Compensated Density/Neutron PE Log, Geological Report	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Log Name</th> <th style="text-align: left;">Formation (Top), Depth and Datum</th> <th style="text-align: left;">Sample</th> </tr> <tr> <th></th> <th style="text-align: center;">Top</th> <th style="text-align: center;">Datum</th> </tr> </thead> <tbody> <tr> <td>Herington</td> <td style="text-align: center;">2633'</td> <td style="text-align: center;">+243'</td> </tr> <tr> <td>Krider</td> <td style="text-align: center;">2665'</td> <td style="text-align: center;">+207'</td> </tr> <tr> <td>Winfield</td> <td style="text-align: center;">2710'</td> <td style="text-align: center;">+166'</td> </tr> </tbody> </table>	Log Name	Formation (Top), Depth and Datum	Sample		Top	Datum	Herington	2633'	+243'	Krider	2665'	+207'	Winfield	2710'	+166'
Log Name	Formation (Top), Depth and Datum	Sample														
	Top	Datum														
Herington	2633'	+243'														
Krider	2665'	+207'														
Winfield	2710'	+166'														

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		8 5/8"	28	646'	see note #1	see note	see note #1
Production		4 1/2"	10.5	2803'	see note #1	see note	see note #1

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	see note #1	see note #1	see note #1	see note #1

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 initial completion report		

TUBING RECORD		Size	Set At	Packer At	Liner Run	Yes	No
		2 3/8"	2697.30'			<input checked="" type="checkbox"/>	
Date of First, Resumed Production, SWD or Enhr.		Producing Method					
11/24/2003		Flowing <input type="checkbox"/> Pumping <input checked="" type="checkbox"/>		Gas Lift		Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
		80					

Disposition of Gas Vented Sold Used on Lease (If vented, Sumit ACO-18.)

METHOD OF COMPLETION

Open Hole
 Perf.
 Dually Comp.
 Commingled

Production Interval

Other (Specify) _____

Note #1:

Surface	Type of Cement	Type and Percent Additives
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275 sacks	A-con	
125 sacks	60 40 poz	

Production

375 sacks	A-con & superflush	
100 sacks	AA-2 gas blocker	

Squeeze

150 sacks	common	
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RECEIVED
FEB 23 2004
KCC WICHITA

ORIGINAL



SALES OFFICE:
 100 S. Main
 Suite #807
 Wichita KS 67202
 (316) 262-3699
 (316) 262-5799 FAX

SALES & SERVICE OFFICE:
 10244 NE Hiway 61
 P.O. Box 8613
 Pratt, KS 67124-8613
 (316) 672-1201
 (316) 672-5383 FAX

ACIDIZING - FRACTURING - CEMENTING

Invoice

Bill to:			6395901	Invoice	Invoice Date	Order	Order Date
OIL PRODUCERS INC. OF KANSAS				307124	7/31/03	6554	7/25/03
P.O. Box 8647				Service Description			
Wichita, KS 67208				Cement			
<p style="text-align: center;">RECEIVED FEB 23 2004 KCC WICHITA</p>				Lease		Well	
				Leonard		1-21	
AFE	CustomerRep	Treater	Well Type	Purchase Order	Terms		
	T. Thomson	D. Morris	New Well		Net 30		

<u>ID.</u>	<u>Description</u>	<u>UOM</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Price</u>
D201	A-CON BLEND (COMMON)	SK	275	\$13.08	\$3,597.00 (T)
D203	60/40 POZ (COMMON)	SK	125	\$7.84	\$980.00 (T)
C310	CALCIUM CHLORIDE	LBS	1098	\$0.75	\$823.50 (T)
C194	CELLFLAKE	LB	92	\$2.00	\$184.00 (T)
R701	CEMENT HEAD RENTAL	EA	1	\$250.00	\$250.00 (T)
F303	BAFFLE PLATE ALUMINUM, 8 5/8"	EA	1	\$72.00	\$72.00 (T)
F163	WOODEN CEMENT PLUG, 8 5/8"	EA	1	\$85.00	\$85.00 (T)
F123	BASKET, 8 5/8"	EA	1	\$290.00	\$290.00 (T)
E107	CEMENT SERVICE CHARGE	SK	400	\$1.50	\$600.00
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	25	\$3.25	\$81.25
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	458	\$1.30	\$595.40
R302	CEMENT PUMPER, 501-1000' 1ST 4 HRS ON LOC	EA	1	\$935.00	\$935.00

Sub Total:	\$8,493.15
Discount:	\$2,803.17
Discount Sub Total:	\$5,689.98
Tax Rate: 5.80%	Taxes: \$244.08
(T) Taxable Item	Total: \$5,934.06

PLEASE REMIT TO Acid Services, LLC, Dept No 1131 , Tulsa, OK 74182

Accounts become past due the last day of the month following billing. Interest rate 1.5% per month (18% per year) on past due accounts.

ORIGINAL



INVOICE NO.
Date 7-25-03
Customer ID

Subject to Correction

FIELD ORDER 6554

Lease LEONARD	Well # #1-21	Legal 21-30S-32W
County HASKELL	State KANSAS	Station LARSEN KANSAS

CHARGE

Oil Producers Inc of KANSAS

Depth 662'	Formation	Shoe Joint 15'
Casing 8 5/8"	Casing Depth	TD 662'
Customer Representative Tim Thomson	Treater Dick Morris	Job Type SURFACE PIPE NEW WELL

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KCC WICHITA

A/E Number	PO Number
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Materials Received by X

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
DZ01	275	A-CON (COMMON)	(100 sacks)	PRATT ✓	(175 lbs Liberac)	✓
DZ03	125	60/40 A02 (COMMON)	✓	LIBERAC		
C310	1098	CALCIUM CHLORIDE	✓	816 lib.	288 PRATT	
C194	92	CELLFLAKE	✓	67 lib.	25 PRATT	
R701	1EA	CEMENT HEAD RENTAL				
F303	1EA	ALUMINUM BAFFLE PLATE	✓			
F163	1EA	8 5/8 WOODEN PLUG	✓			
F123	1EA	8 5/8 BASKET	✓			
E107	400 SK	CEMENT SERVICE CHARGE				
E100	25 mile	UNITS 1 EACH MILES 1 WAY				
E104	458 TM	TONS 18 TON MILES 25 mile				
R302	1EA	EA. 501-1000' PUMP CHARGE 662'				
Discounted Total						5689.98
Plus TAX						

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TOTAL

ORIGINAL

TREATMENT REPORT



RECEIVED
FEB 23 2004
KCC WICHITA

Customer ID		Date	
Customer Oil Producers Inc of Ks		7-25-03	
Lease LEONARD		Lease No. 1-21	Well #
Field Order # 6554	Station L1350A Ks	Casing 8 5/8	Depth
Type Job SURFACE PIPE		Formation	Legal Description 21-30S-32W
		County HASKELL	State Ks

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 275 SK A-CON		RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad MIXED 11.8 PPg	Max			5 Min.
Volume	Volume	From	To	Pad 2.71 yds 16.6 WATER	Min			10 Min.
Max Press	Max Press	From	To	Frac 125 SK 60/40 Pz	Avg			15 Min.
Well Connection	Annulus Vol.	From	To	MIXED 14.7 PPg	HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush 1.30 yds 5.92 WATER	Gas Volume			Total Load

Customer Representative Tim Thomson	Station Manager Dixie Morris	Treater Dixie Morris
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Service Units	112	28	38	72	106	44	76
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1600					ON LOCATION - Drilling @ 517'
					Rig up equipment
1630					LOST CIRCULATION @ 561'
1930					ORDER ADDITIONAL CEMENT FROM PRATT
0030					PULL DRILLPIPE TO RUN CASING
0220					CASING ON BOTTOM
0235					CIRCULATION ESTABLISHED
0255	150		0	6	START LEAD CEMENT A-CON @ 11.8 PPg
0310	150		130	6	START TAIL CEMENT 60/40 Pz @ 14.7
0318	0		160	5	DROP PLUG - START DISPLACEMENT
0325			184		CEMENT TO SURFACE
0331	250		199	2	PLUG DOWN - SHUT IN HEAD - JOBS COMPLETE
					CIRCULATED 15 BBL / 30 SK TO PIT
					THANKS FOR CALLING ACID SERVICES
					Dixie / SCOTT / MAR / DUFF

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ACIDIZING - FRACTURING - CEMENTING

Invoice

Bill to:		6395901	Invoice	Invoice Date	Order	Order Date
OIL PRODUCERS INC. OF KANSAS			307145	8/8/03	6580	7/28/03
P.O. Box 8647			Service Description			
Wichita, KS 67208			Cement			
			Lease		Well	
			Leonard		1-21	
AFE	CustomerRep	Treater	Well Type	Purchase Order	Terms	
	T. Thomson	S. Frederick	New Well		Net 30	

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<u>ID.</u>	<u>Description</u>	<u>UOM</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Price</u>
D105	AA2 (PREMIUM)	SK	100	\$13.74	\$1,374.00 (T)
D201	A-CON BLEND (COMMON)	SK	375	\$13.08	\$4,905.00 (T)
C312	GAS BLOCK	LB	118	\$5.00	\$590.00 (T)
C321	GILSONITE	LB	489	\$0.60	\$293.40 (T)
C195	FLA-322	LB	94	\$7.50	\$705.00 (T)
C243	DEFOAMER	LB	24	\$3.00	\$72.00 (T)
C221	SALT (Fine)	GAL	514	\$0.25	\$128.50 (T)
C310	CALCIUM CHLORIDE	LBS	706	\$0.75	\$529.50 (T)
C194	CELLFLAKE	LB	96	\$2.00	\$192.00 (T)
C141	CC-1, KCL SUBSTITUTE	GAL	2	\$40.00	\$80.00 (T)
C304	SUPER FLUSH II	GAL	500	\$1.85	\$925.00 (T)
F100	TURBOLIZER, 4 1/2"	EA	5	\$67.00	\$335.00 (T)
F120	BASKET, 4 1/2"	EA	2	\$180.00	\$360.00 (T)
F170	LATCH DOWN PLUG & BAFFLE, 4 1/2"	EA	1	\$230.00	\$230.00 (T)
F210	AUTO FILL FLOAT SHOE, 4 1/2"	EA	1	\$250.00	\$250.00 (T)
R701	CEMENT HEAD RENTAL	EA	1	\$250.00	\$250.00
E107	CEMENT SERVICE CHARGE	SK	475	\$1.50	\$712.50
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	25	\$3.25	\$81.25
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	559	\$1.30	\$726.70
R206	CASING CEMENT PUMPER, 2501-3000' 1ST 4 HRS ON LOC	EA	1	\$1,533.00	\$1,533.00

Sub Total: \$14,272.85
Discount: \$4,830.86
Discount Sub Total: \$9,441.99
Tax Rate: 5.80% **Taxes:** \$420.89
(T) Taxable Item
Total: \$9,862.88

PLEASE REMIT TO Acid Services, LLC, Dept No 1131 , Tulsa, OK 74182

Accounts become past due the last day of the month following billing. Interest rate 1.5% per month (18% per year) on past due accounts.

ORIGINAL



INVOICE NO.	Subject to Correction			FIELD ORDER	6580
Date	7-28-03	Lease	LEONARD	Well #	1-21
Customer ID		County	HASKELL	State	KS
		Depth	2806	Formation	
		Casing	4 1/2	Casing Depth	2806
		Shoe Joint	13	Job Type	4 1/2 L.S. NEW WELL
		Customer Representative	TIM THOMSON		Treater
					SHAUN FREDERICK

CHARGE

AFE Number	PO Number	Materials Received by	<i>X Tim Thomson</i>
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Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D105	100SK	AAZ (Premium)	(PEAT)	✓		
D201	375SK	A-CON Blend (Common)		✓		
C312	1181b	GAS Block	(PEAT)	✓		
C321	4891b	Gilsonite	(PEAT)	✓		
C195	941b	FLA-322	(PEAT)	✓		
C243	241b	De-foamer	(PEAT)	✓		
C221	5141b	SALT (Fine)	(PEAT)	✓		
C310	7061b	CALCIUM CHLORIDE		✓		
C194	961b	CELLFLAKE		✓		
C141	2gal	CC-1		✓		
C304	500 gal	Super FLUSH 11		✓		
F100	5eq	TURBOLIZER 4 1/2		✓		
F120	2eq	BASKET 4 1/2		✓		
F170	1eq	LATCH DOWN Plug + Baffle 4 1/2		✓		
F210	1eq	AUTO Fill Float Shoe 4 1/2		✓		
R201	1eq	CEMENT HEAD RENTAL				
E107	425SK	CMT SERVICE CHARGE				
E100	25mi	UNITS 1 MILES 1 way				
E104	5597m	TONS 22 MILES 25				
R204	1eq	EA. 4 hrs PUMP CHARGE				
		Discounted TOTAL				9,441.99
		PLUS TAX				

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KCC WICHITA

TREATMENT REPORT



Customer ID		Date	
Customer OIL PRODUCERS		7-28-03	
Lease LEONARD		Lease No.	Well # 1-21
Field Order # 6580	Station LIBERAL	Casing 4 1/2	Depth 2806
		County HASKELL	State KS

Type Job: 4 1/2 L.S. New Well
 Formation: _____
 Legal Description: 21-30s-32w

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2	Tubing Size	Shots/Ft		Acid 375 SA A-CON		RATE	PRESS	ISIP
Depth 2806	Depth	From	To	Pre Pad 100 SA AA-2		Max		5 Min.
Volume 45	Volume	From	To	Pad Super Flush II		Min		10 Min.
Max Press 1500	Max Press	From	To	Frac		Avg		15 Min.
Well Connection P.C.	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush TREATED H ₂ O		Gas Volume		Total Load

Customer Representative: Tim THOMSON
 Station Manager: Dirk MORRIS
 Treater: Shawn FREDERICK

Service Units	108	28	38	72	44	72		
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1700					ON LOCATION / RIG CIR
1705					PRE JOB SAFETY MEETING
1710					RIG UP P.T.
1800					THROUGH CIR / PULL D.P.
2100					D.P. OUT OF HOLE / RIG UP CASERS
2130					START IN W/ CASING - F.E.
2300					CASING ON BOTTOM / Hook up P.C.
2305					BREAK CIR W/ RIG
2340					THROUGH CIR - Hook lines to P.T.
2345			4	2	Plug RAT Hole 25 SAS
2352	250		12	4	Pump 12 BBLs WATER
2355	300		12	4	Pump 500 gal Super Flush II
0000	300		12	4	Pump 12 BBLs WATER
0003	350		183	5	Pump 375 SAS A-CON @ 11.7"
0050	175		44	5	Pump 100 SAS AA2 @ 15"/CMT TO P.T.
0100					SHUT DOWN / WASH LINES TO P.T. / DROP PLUG
0107	100		44.5	5	Pump Disp
0123	600		-	2	SLOW RATE
0128	1400			2	LAND PLUG
0129					RELEASE Float -- HEAD
0130					JOB COMPLETE

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ACIDIZING - FRACTURING - CEMENTING

Invoice

<i>Bill to:</i>		6395901	Invoice	Invoice Date	Order	Order Date
OIL PRODUCERS INC. OF KANSAS			308058	8/21/03	6587	8/8/03
P.O. Box 8647			Service Description			
Wichita, KS 67208			Cement			
			Lease		Well	
			Leonard		1-21	
AFE	CustomerRep	Treater	Well Type	Purchase Order	Terms	
	T. Thomson	S. Frederick	New Well		Net 30	

RECEIVED
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 KCC WICHITA

<u>It.</u>	<u>Description</u>	<u>UOM</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Price</u>
D200	COMMON	SK	150	\$10.39	\$1,558.50 (T)
C310	CALCIUM CHLORIDE	LBS	172	\$0.75	\$129.00 (T)
E107	CEMENT SERVICE CHARGE	SK	150	\$1.50	\$225.00
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	25	\$3.25	\$81.25
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	166	\$1.30	\$215.80
R306	CEMENT PUMPER, 2501-3000' 1ST 4 HRS ON LOC	EA	1	\$1,512.00	\$1,512.00

Sub Total:	\$3,721.55
Discount:	\$930.14
Discount Sub Total:	\$2,791.41
Tax Rate: 5.80%	Taxes: \$73.41
(T) Taxable Item	Total: \$2,864.82

PLEASE REMIT TO Acid Services, LLC, Dept No 1131 , Tulsa, OK 74182

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ORIGINAL



INVOICE NO.		Subject to Correction		FIELD ORDER 6587	
Date	8-8-03	Lease	LEONARD	Well #	1-21
Customer ID		County	HASKELL	State	KS
OIL PRODUCERS of KANSAS		Depth	2715	Formation	Winfield
		Casing	4 1/2	Casing Depth	
		Customer Representative	Tim THOMSON	Treater	Shawn FREDERICK
		Job Type	Squeeze well	Station	LABERAL
		Shoe Joint		TD	

CHARGE

AFE Number	PO Number	Materials Received by	X Jeff Powell
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Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D200	150sn	Common	✓			
C310	172lb	CALCIUM CHLORIDE	✓			
RECEIVED FEB 23 2004 KCC WICHITA						
E107	150sn	Comt Service Charge				
E100	25mi	UNITS 1 MILES luxury				
E101	1166Tm	TONS 7 MILES 25				
R306	1ea	EA. 4 hrs PUMP CHARGE				
Discounted TOTAL						2791.41
PLUS TAX						

10244 NE Hiway 61 · P.O. Box 8613 · Pratt, KS 67124-8613 · Phone (620) 672-1201 · Fax (620) 672-5383 TOTAL

TREATMENT REPORT

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KCC WICHITA



Field Order # 6587		Station LIBERAL	Casing 4 1/2	Depth 2715	County Haskell	Date 8-8-03
Type Job Squeeze new well		Formation Winfield	Lease LEONARD		Lease No.	Well # 1-21
State KS		Customer OIL PRODUCERS OF KANSAS		Legal Description 21-305-32W		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2	Tubing Size 2 3/8	Shots/Ft		Acid 100 sk Common		RATE	PRESS	ISIP
Depth 2789	Depth 2711	From 2715	To 2725	Pre-Pad 4 2% CC		Max 4	1500	5 Min.
Volume 43	Volume 10.5	From	To	Pad 50 sk Common		Min 1.3	Ø	10 Min.
Max Press 2000	Max Press 2000	From	To	Frac		Avg 3	1500	15 Min.
Well Connection 2 3/8	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth 2711	From	To	Flush WATER		Gas Volume		Total Load

Customer Representative **Tim THOMPSON** Station Manager **Dick MORRIS** Treater **Shaun FREDERICK**

Service Units	28	100	38	72				
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0930					ON LOCATION
0936					PRE-JOB SAFETY MEETING
1000					RIG UP P.T.
1115	500		27	3	LOAD BACKSIDE TO 500 PSIG
1120		500	16	4	INJECTION TEST
1136		Ø	10.5	3.5	Pump 50 sks Common @ 15.6 #
1140		500-1000	22	3.5	Pump 100 sks Common 4 2% CC @ 15.6 #
1145		1000			SHUT DOWN
1146		900	10	3	Pump Disp
1149		1500	-	2	WALK TO 1500 / SHUT DOWN
1150		900-1500	-	1.3	Continue Disp
1206					SHUT DOWN
1204	500	5	20	3	Reverse out
1211					SHUT DOWN / WASH LINES TO P.I.T
1300					JOB COMPLETE

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LEONARD #1-21 1

FEB 23 2004

ORIGINAL

KCC WICHITA
OIL PRODUCERS, INC. OF KANSAS
INITIAL COMPLETION REPORT

WELL - LEONARD #1-21

LEGAL - C-S/2 of SEC. 21-30s-32w in HASKELL CO., KS

API # - 15-081-21489

G.L. - 2874'

K.B. - 5' ABOVE G.L. @ 2879'

SURFACE CSN - 8 5/8" @ 646' w/ 275 SXS A-CON, 125 SXS 60/40 POZ.

RTD - 2800'

LTD - 2804'

PRODUCTION CSN - 4 1/2" 10.5# NEW R-3 @ 2803' w/ 375 SXS A-CON, 100 SXS AA-2

TOP OF CEMENT - SURFACE w/ EXCELLENT BONDING ACROSS PAY INTERVALS

PBTD - 2789' (ELI 8/7/03) 2711' (CEMENT RETAINER 8/8/03)

<u>PERFORATIONS</u> -	WINFIELD -	2715-2725'	2/FT
	LOWER KRIDER -	2688-2692'	2/FT
	LOWER KRIDER -	2668-2678'	2/FT
	UPPER KRIDER -	2637-2644'	2/FT

COMPLETION DATE -

TUBING RAN - M.A. S.N. 85 JTS 2 3/8" (2663.20') 10', 6' x 2 3/8" SUBS

TUBING SET @ - 2697.30'

AVERAGE TBG JT. - 31.33'

PUMP RAN - 2 x 1 1/2 x 12' RWB HOLLOW PULL ROD w/ 6' G.A.

RODS RAN - PUMP 2' x 3/4" 106 3/4" 4' x 3/4" P.R. & LINER

PUMP SET @ - 2682'

PUMPING UNIT - AMERICAN D80G SER. #D80G-938, GEAR RATIO 29.93 TO 1, 48" STROKE

PRIME MOVER - C-66

SURFACE EQUIPMENT - 24" x 5' 125# VERTICAL GAS SEPARATOR
6' x 16' 210 BBL CLOSED TOP FIBERGLASS WATER TANK

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LEONARD #1-21 2

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ORIGINAL

KCC WICHITA

8/07/03 -

COMANCHE WELL SERVICE ON LOCATION TO RIG UP D-D DERRICK.

ELI ON LOCATION TO RUN CORRELATION & SONIC CEMENT BOND LOG.

FOUND TTL DEPTH - 2789'

FOUND TOP OF CEMENT - AT SURFACE w/ EXCELLENT BONDING ACROSS PAY INTERVALS.

COMANCHE RIGGED TO 4½". SWAB CSN. SWAB CSN DOWN TO 2300' FROM SURFACE.

ELI WIRELINE ON LOCATION TO PERFORATE PROPOSED PAY INTERVAL IN WINFIELD FORMATIONS UTILIZING 32 GRAM EXPENDABLE CSN GUN.

PERFORATE WINFIELD - 2715-2725' 2/FT.

COMANCHE SWABBED WELL DOWN TO TTL DEPTH.

½ HR NATURAL TEST WINFIELD.

ACID SERVICE ON LOCATION TO ACID STIMULATE WINFIELD PERFORATIONS w/ 500 GALS 15% DSFE ACID.

ACIDIZE WINFIELD PERFORATIONS AS FOLLOWS:

PUMP 500 GALS 15% DSFE ACID.
LOAD HOLE w/ 31 BBLS, 2% KCL WATER
PRESSURE TO 1400#, BROKE BACK QUICKLY
DISPLACE ACID AT 3 BPM - 100#
ISIP - VACUUM
TTL LOAD = 54 BBLS

COMANCHE RIGGED TO SWAB TEST WINFIELD PERFS AFTER ACID STIMULATIONS.

SWAB TEST WINFIELD PERFORATIONS AFTER ACID AS FOLLOWS:

SWAB WELL DOWN TO TTL DEPTH, RECOVERED 30 BBLS
½ HR SWAB TEST - RECOVERED 3.00 BBLS TEST GAS @ SLIGHT SHOW
½ HR SWAB TEST - RECOVERED 0.50 BBLS TEST GAS @ SLIGHT SHOW
½ HR SWAB TEST - RECOVERED 0 BBLS TEST GAS @ 6 MCF
1 HR SWAB TEST - RECOVERED 2.40 BBLS TEST GAS @ 9 MCF

SHUT WELL IN. SHUT DOWN FOR NIGHT.

8/08/03 -

SICP - 10.5# w/ 50' OF FLUID IN HOLE.

SIBHP - CALCULATES 137#

COMANCHE WELL SERVICE ON LOCATION. SWAB CSN DOWN TO TTL DEPTH.

WILL CONDEM WINFIELD ZONE DUE TO NOT HAVING COMMERCIAL GAS SUPPLY AND POSSIBLY CAUSING FRAC TO OPEN UP ZONE TO SALT WATER.

T.R. SERVICE ON LOCATION w/ 4½" CEMENT RETAINER. ELI WIRE-LINE ON LOCATION TO SET 4½" CEMENT RETAINER.

SET CEMENT RETAINER @ - 2711'

ORIGINAL

8/08/03 CONTINUED -

SIoux TANK WINCH TRUCK ON LOCATION. UNLOAD 2775' OF USED TESTED 2 3/8" TUBING FROM OPIK YARD GREAT BEND.

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RIH - w/ CEMENT RETAINER AND 2 3/8" TUBING, STING INTO RETAINER AT 2711'.

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ACID SERVICES ON LOCATION TO SQUEEZE WINFIELD PERFS w/ 150 SXS COMMON CEMENT. **KCC WICHITA**

SQUEEZE WINFIELD PERFORATIONS AS FOLLOWS:

LOAD ANNULUS & PRESSURE TO 500#, HELD OKAY
 ESTABLISH INJECTION RATE VIA TBG @ 4 BPM - 600#
 - MIX & PUMP 150 SXS COMMON CEMENT
 DISPLACE 130 SXS INTO PERFS AT 3 BPM - VAC TO 1500#
NOTE: OBSERVE RUNNING SQUEEZE HOLDING 1000#
 PULL OUT OF STINGER, REVERSE, CIRCULATE HOLE CLEAN
POOH - w/ TUBING & STINGER

SHUT DOWN FOR WEEKEND.

8/11/03 -

COMANCHE WELL SERVICE ON LOCATION. RIG TO SWAB 4 1/2" CSN. SWAB CSN DOWN TO 2300' FROM SURFACE.

ELI-WIRELINE ON LOCATION TO PERFORATE ALL PAY INTERVALS IN UPPER AND LOWER KRIDER FORMATION UTILIZING 32 GRAM EXPENDABLE CSN GUNS.
FOUND TTL DEPTH @ - 2710'

<u>PERFORATE</u> - LOWER KRIDER -	2688-2692'	2/FT
LOWER KRIDER -	2668-2678'	2/FT
UPPER KRIDER -	2637-2644'	2/FT

COMANCHE WELL SERVICE SWAB 4 1/2" CSN DOWN TO TTL DEPTH.
1/2 HR NATURAL SWAB TEST - RECOVERED

ACID SERVICE ON LOCATION TO ACID STIMULATE ALL UPPER AND LOWER KRIDER w/ 1500 15% DSFE ACID w/ 65 BALL SEALERS SPACED OUT EQUALLY.

ACIDIZE UPPER AND LOWER PERFORATIONS AS FOLLOWS:

PUMP 500 GALS 15% DSFE ACID
 PUMP 1,000 GALS 15% DSFE ACID w/ 65 BALL SEALERS SPACED EQUALLY
 PRESSURE TO 700#, BROKE BACK QUICKLY
 DISPLACE 500 GALS ACID @ 6 BPM - 250#
 DISPLACE 1,000 GALS 15% DSFE ACID w/ BALLS @ 6 BPM - 200# TO 1500# BALLED OFF
 DISPLACE REST OF ACID - 3 BPM - VAC
ISIP - VACUUM
TTL LOAD = 78 BBLS

COMANCHE WELL SERVICE RIGGED TO SWAB TEST UPPER AND LOWER KRIDER PERFS AFTER ACID.

ORIGINAL8/11/03 CONTINUED -SWAB TEST LOWER AND UPPER KRIDER PERFORATIONS AS FOLLOWS:

SWAB CSN DOWN TO TTL DEPTH. RECOVERED 48 BBLs.

½ HR SWAB TEST - RECOVERED 4.17 BBLs

TEST GAS @ 10 MCF

½ HR SWAB TEST - RECOVERED 0.83 BBLs

TEST GAS @ 10 MCF

½ HR SWAB TEST - RECOVERED 0.41 BBLs

TEST GAS @ 12 MCF

1 HR SWAB TEST - RECOVERED 1.67 BBLs

TEST GAS @ 20 MCF

1 HR SWAB TEST - RECOVERED 0.83 BBLs

TEST GAS @ 41 MCF

1 HR SWAB TEST - RECOVERED 0.83 BBLs

TEST GAS @ 45 MCF

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SHUT WELL IN. SHUT DOWN FOR NIGHT.

8/12/03 -

COMANCHE WELL SERVICE ON LOCATION TO CHECK PRESSURES.

SICP - 220# w/ NO FLUID IN HOLESIBHP - CALCULATES 239#

ACID SERVICE AND CUDD PRESSURE CONTROL ON LOCATION TO FRACTURE
STIMULATE ALL UPPER AND LOWER KRIDER PERFS w/ 22,000 GALS 70% NITROGEN
FOAM AND 31,000# 12/20 BRADY SAND, TAILING IN w/ 4,000# RESONATED AC-FRAC
SAND TO MINIMIZE SAND PRODUCTION.

FRACTURE UPPER AND LOWER KRIDER PERFORATIONS AS FOLLOWS:

PUMP 7,000 GALS, 70% N2 FOAM PAD, EST. INJ. RATE @ 17 BPM - 1,000#

PUMP 4,000# 12/20 SAND @ 1 PPG (4,000 GALS N2 FOAM) @ 17 BPM - 1,200#

PUMP 12,000# 12/20 SAND @ 2 PPG (6,000 GALS N2 FOAM) @ 17 BPM - 1,150#

PUMP 11,001# 12/20 SAND @ 3 PPG (3,667 GALS N2 FOAM) @ 17 BPM - 1,150#

PUMP 3,999# AC-FRAC SAND @ 3 PPG (1,333 GALS N2 FOAM) @ 17 BPM - 1,200#

FLUSH SAND TO PERFS w/ 1800 GALS N2 FOAM @ 17 BPM - 1,200#

ISIP - 1075#TTL LIQUID LOAD TO RECOVER - 181 BBLs

SHUT WELL IN FOR 24 HRS. SHUT DOWN.

8/13/03 -

COMANCHE WELL SERVICE ON LOCATION TO CHECK PRESSURE ON CSN.

SICP - 180#

OPEN WELL TO PIT, WELL KICKED OFF FLOWING, FLOWED TO PIT FOR 3 HRS.

RECOVERED 29 BBLs.

COMANCHE RIGGED TO SWAB CSN DOWN TO RECOVER FRAC LOAD.

SWABBED CONTINUOUS REST OF DAY. RECOVERED 77 BBLs.

THIS IS A TOTAL OF 107 BBLs FOR THE DAY WITH GOOD SHOW OF GAS.

SHUT WELL IN. SHUT DOWN FOR NIGHT.

8/14/03 -

COMANCHE ON LOCATION TO CHECK PRESSURE ON CSN.

SICP - 220# w/ 300' OF FLUID IN HOLESIBHP - CALCULATES 380#

ORIGINAL8/14/03 CONTINUED -

COMANCHE RIGGED TO SWAB TEST UPPER AND LOWER KRIDER PERFS AFTER FRAC.

SWAB TEST UPPER AND KRIDER PERFORATIONS AS FOLLOWS:

CONTINUOUS SWAB FOR 3½ HRS, RECOVERED 71.80 BBLS w/ 106 BBLS SWABBED BACK YESTERDAY. THIS IS A TOTAL OF 177 BBLS OF 181 BBL FRAC LOAD. START ½ HR TEST SWABS.

<u>½ HR SWAB TEST -</u>	RECOVERED 1.67 BBLS	TEST GAS @ 168 MCF
<u>½ HR SWAB TEST -</u>	RECOVERED 3.34 BBLS	TEST GAS @ 173 MCF
<u>½ HR SWAB TEST -</u>	RECOVERED 3.34 BBLS	TEST GAS @ 168 MCF
<u>½ HR SWAB TEST -</u>	RECOVERED 3.34 BBLS	TEST GAS @ 161 MCF
<u>1 HR SWAB TEST -</u>	RECOVERED 2.92 BBLS	TEST GAS @ 168 MCF
<u>1 HR SWAB TEST -</u>	RECOVERED 3.75 BBLS	TEST GAS @ 150 MCF
<u>1 HR SWAB TEST -</u>	RECOVERED 3.34 BBLS	TEST GAS @ 136 MCF
<u>1 HR SWAB TEST -</u>	RECOVERED 3.34 BBLS	TEST GAS @ 134 MCF

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RUN SWAB STEM. CHECK SAND FILL-UP. HAVE APPROX. 30' OF SAND IN CSN.

SHUT WELL IN. SHUT DOWN FOR NIGHT.

8/15/03 -

COMANCHE WELL SERVICE ON LOCATION TO CHECK PRESSURE ON CSN.

SICP - 205#

COMANCHE RIGGED TO RUN TUBING IN FOR PRODUCTION.

RUN PRODUCTION TUBING AS FOLLOWS:

MUD ANCHOR x 2 3/8"	15.00'
SEATING NIPPLE x 2 3/8"	1.10'
85 JTS 2 3/8" TUBING	2663.20'
6', 10' x 2 3/8" TUBING SUBS	16.00'
K.B. (5' < 3')	2.00'
TUBING SET @	2697.30'
SEATING NIPPLE SET @	2682.30'

TAG TTL DEPTH w/ TUBING @ 2711', PICK UP AND LAND TUBING 13' OFF BOTTOM.

SIOUX TANK WINCH TRUCK ON LOCATION w/ USED ¾" RODS AND BOTTOM HOLE PUMP.

COMANCHE RIGGED TO RUN BOTTOM HOLE PUMP AND RODS.

RUN BOTTOM HOLE PUMP AND RODS AS FOLLOWS:

2 x 1½ x 12' RWB HOLLOW PULL ROD PUMP	14.00'
2' x ¾" ROD SUBS	2.00'
106 USED ¾" RODS	2650.00'
4' x ¾" ROD SUB	4.00'
1¼" POLISHED ROD & 7' LINER	16.00'
PUMP SET @	2682.00'

ORIGINAL

8/18/03 CONTINUED -

SPACED OUT RODS.
LONG-STROKED HAD GOOD PUMP ACTION.
CLAMPED RODS OFF.

COMANCHE RIGGED DOWN, MOVED OFF LOCATION.

8/18/03 to 8/20/03 -

SIoux TANK WINCH TRUCK AND GABLE LEASE SERVICE ON LOCATION TO BUILD PUMPING UNIT PAD AND SET PUMPING UNIT MODEL D80G AMERICAN SERIAL #D80G-938 w/ GEAR RATIO OF 29.93 TO 1 AND 48" STROKE.

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SHAWNEE ROUSTABOUT SERVICE AND SIoux TANK WINCH TRUCK ON LOCATION. SIoux SET 6' x 16' 210 BBL CLOSED TOP FIBERGLASS TANK. SHAWNEE PLUMBED IN WELL HEAD TO 24" X 5' VERTICAL 125# GAS SEPARATOR. ALSO DITCHED AND LAID 1300' OF 2" SCH 40 PVC WATER-LINE DUE SOUTH TO EDGE OF CO. ROAD AND TIE INTO WATER TANK.

KCC WICHITA

AT THIS TIME, WE ARE WAITING ON GARY MEIR TO PERFORM GAS TESTS ON WELL TO GET BEST CONTRACT w/ BP OR ONEOK.

END OF REPORT
TIM THOMSON