

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

ORIGINAL

API NO. 15- 097-21468-0000

County Kiowa
S/2 SE SW Sec. 20 Twp. 29S Rge. 18 X E/W

Operator: License # 3273
Name: Herman L. Loeb
Address P. O. Box 524
City/State/Zip Lawrenceville, IL 62439

RECEIVED
JUL 17 2002
WICHITA

Purchaser: _____
Operator Contact Person: George A. Payne
Phone (812) 853-3813
Contractor: Name: Duke Drilling
License: 5929
Wellsite Geologist: Jon 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:
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. _____
7/17/01 8/3/01 8/20/01
Spud Date Date Reached TD Completion Date

330 Feet from S/N (circle one) Line of Section
3380 Feet from E/W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Nichols D Well # 5
Field Name Nichols
Producing Formation Cherokee Limestone
Elevation: Ground 2213 ft KB 2223 ft
Total Depth 4960 ft PBTB _____
Amount of Surface Pipe Set and Cemented at 632 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.

Drilling Fluid Management Plan (see) EH 7.29.04 P+A
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume _____ bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name _____
Lease Name _____ License No. _____
Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W
County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 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 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 George A. Payne
Title Petroleum Engineer Date 7/15/02
Subscribed and sworn to before me this 15 day of July
19 2002.
Notary Public John R. Dalton
Date Commission Expires 3-04-08

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)

✓

X

SIDE TWO

ORIGINAL

Operator Name Herman L. Loeb

Lease Name Nichols D

Well # 5

Sec. 20 Twp. 29S Rge. 18

East
 West

County Kiowa

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:

Dual Induction, neutron, density & microlog

RECEIVED

JUL 17 8 00 AM

KCC WICHITA

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Heebner shale	4093	-1870
Toronto	4108	-1885
Brown Lime	4274	-2051
Lansing	4292	-2069
Stark Shale	4603	-2380
Base Kansas City	4693	-2470
Marmaton	4705	-2482
Cherokee Shale	4827	-2604
Basal Penn Limestone	4843	-2620
Mississippi Limestone	4902	-2679

CASING RECORD

New 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"	23	632'	60/40 Pozmix	240	3% CC 2% gel
Production	7 7/8"	5 1/2"	14 & 15.5#	4,950'	AA2 blend	200	5# gilsonite

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
3	4,845-4,850 ft	750 gal 15% MCA-Fe acid	4,850 ft

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	4,850'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SMD or Inj.			Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		200		I	

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

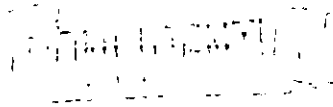
Vented Sold Used on Lease (If vented, submit ACO-18.)

Open Hole Perf. Dually Comp. Commingled

Other (Specify) _____

ORIGINAL

Drill Stem Test Report



KCC Form ACO-1 Attachment

Operator:	Herman L. Loeb
Well Name:	Nichols D #5
API Number:	15-097-21468-0000
Test Interval:	4,830-4,860 ft
Test Times:	15-45-90-120
Initial Hydrostatic Pressure:	2,327 psi
Initial Flow Pressures:	54-53 psi
Initial Shutin Pressure:	532 psi
Final Flow Pressures:	48-62 psi
Final Shutin Pressure:	531 psi
Final Hydrostatic Pressure:	2,314 psi
Reached Static:	yes
Bottomhole Temperature:	114 degrees F
Fluid Recovery:	65' sgcm
Gas Flow Rate:	96.71 mcfpd

RECEIVED
JUL 17 2011
KCC WICHITA



COPY ORIGINAL

SALES OFFICE:
 105 S. Broadway
 Suite #420
 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: HERMAN L. LOEB P.O. Box 524 Lawrenceville, IL 62439-0524			RECEIVED 3560000 JUL 17 2001 KCC WICHITA		Invoice	Invoice Date	Order	Order Date
					108016	8/10/01	3814	8/4/01
					Service Description			
					Cement			
					Lease		Well	
					Nichols		5	
AFE	CustomerRep	Treater			Well Type	Purchase Order	Terms	
	Dave Pauly	T. Seba			New Well		Net 30	

<u>ID.</u>	<u>Description</u>	<u>UOM</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Price</u>
D204	AA2	SK	200	\$13.56	\$2,712.00
C196	FLA-322	LB	94	\$7.25	\$681.50
C322	GILSONITE	LB	1001	\$0.55	\$550.55
C243	DEFOAMER	LB	19	\$3.00	\$57.00
C223	SALT (Fine)	LBS	1027	\$0.35	\$359.45
C302	MUD FLUSH	GAL	500	\$0.75	\$375.00
F101	CENTRALIZER, 5 1/2"	EA	7	\$71.00	\$497.00
F151	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1	\$250.00	\$250.00
F181	AUTO FILL FLOAT SHOE, 5 1/2"	EA	1	\$290.00	\$290.00
R702	CASING SWIVEL RENTAL	EA	1	\$125.00	\$125.00
R701	CEMENT HEAD RENTAL	EA	1	\$250.00	\$250.00
E107	CEMENT SERVICE CHARGE	SK	200	\$1.50	\$300.00
R402	CEMENT PUMPER, ADDITIONAL HRS ON LOCATION	HR	2	\$200.00	\$400.00
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	40	\$3.00	\$120.00
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	376	\$1.25	\$470.00
R210	CASING CEMENT PUMPER, 4501-5000'	EA	1	\$1,740.00	\$1,740.00

Sub Total: \$9,177.50

Discount: \$2,362.23

Discount Sub Total: \$6,815.27

Tax Rate: 5.90%

Taxes: \$0.00

(T) Taxable Item

Total: \$6,815.27

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

FIELD ORDER

U3814



INVOICE NO.		Subject to Correction	
Date 8-4-01	Lease NICHOLS 'D'	Well # 5	Legal 20-29-18W
Customer ID	County Ktowa	State Ks	Station PROT
CHARGE HERMAN LOEB	Depth	Formation	Shoe Joint 43.75 Lb Plug / POP
	Casing 5 1/2	Casing Depth 4949'	TD 4960'
	Customer Representative DAVE PAULY	Treater T. SEBA	Job Type LONGSTRENG NEW Well

AFE Number	PO Number	Materials Received by X <i>David Paul</i>
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Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D-204	200 SKS	AA-2 CEMENT ✓				
C-196	94 lbs	FLA-322 ✓				
C-322	1,001 lbs	GILSONITE ✓				
C-242	19 lbs	Defoamer ✓				
C-223	1,027 lbs	SATT (PENG) ✓				
C-302	500 Gal	Mudflush ✓				
F-101	7 EA	CENTRALIZER 5 1/2 ✓				
F-157	1 EA	L.D. Plug + Baffle 5 1/2 ✓				
F-191	1 EA	AUTO FILL FLOAT SHOE " ✓				
R-702	1 EA	CASING SURVEIL HEAD				
R-701	1 EA	CEMENT HEAD RENTAL				
E-107	200 SKS	CEMENT SERV. CHARGE				
R-402	2 EA	ADD HRS				
E-100	40 hrs	UNITS Hwy	MILES			
E-104	376 TM	TONS	MILES			
R-210	1 EA	EA. 4949'	PUMP CHARGE			
DISCOUNTED PRICE =				6,815.27		
+ TAXES						



TREATMENT REPORT 03524

Customer ID		Date	
Customer HERMAN LOEB		8-04-ORIGINAL	
Lease NICHOLS 'D'		Lease No.	Well # 5
Field Order # 03814	Station PRATO	Casing 5 1/2	Depth 4949
Type Job 5 1/2 LONGSTRENG NEW WELL		County KNOX	State KS
Formation		Legal Description 20-293-19W	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid 200 SKI AA-2		RATE	PRESS	ISIP
Depth 4949	Depth	From	To	Pre Pad 15 1/4 GAL 1.43 ft ³	Max			5 Min.
Volume	Volume	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush 12 Bbls Mud Flush	Gas Volume			Total Load

Customer Representative DAVE PAULY	Station Manager D. AUSTRY	Treater T. SEBA
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Service Units		108	26	31	72	Service Log	
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate			
10:00					CALLED OUT RUN 139 JT'S		
11:30					ON LOC WORK'S 5 1/2		
					GRAB SHOES & L.D PLUG 1 JT		
					COLT 1-2-3-5-7-9-11		
3:45					START CSG		
7:37					CSG ON BOTTOM DROP BALL BREAK CIRC W/RTG		
8:44	200		/	5	START ACID W/RTG		
			5		H ₂ O SPUR		
			12		MUD FLUSH		
			5		H ₂ O SPUR		
			/		START MIXING CNT @ 15#/GAL		
			50.93		FINISHED MIXING CNT		
					SHUT DOWN C/LINE PUMP & LINES		
					RELEASE PLUG		
9:15	100		/	7	START DISP ROTATE CSG DUESS		
	700		101	5	LIFT CNT GOOD GETTING JCS		
	1000		121	2	PLUG DOWN		
9:43	1200				PST TEST		
					RELEASE HEAD		
					JOB COMPLETE		
					THANKS		
					TODD		



SERVICES, LLC

ORIGINAL COPY

SALES OFFICE:
 105 S. Broadway
 Suite #420
 Wichita KS 67202
 (316) 262-3699
 (316) 262-6799 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

<i>Bill to:</i>		3560000	Invoice	Invoice Date	Order	Order Date
HERMAN L. LOEB P.O. Box 524 Lawrenceville, IL 62439-0524			107071	7/31/01	3377	7/21/01
Service Description						
Cement						
Lease				Well		
Nichols				D-5		
AFE	CustomerRep	Treater	Well Type	Purchase Order	Terms	
	Rick Smith	D. Scott	New Well		Net 30	

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 KOC WICHITA

ID.	Description	UOM	Quantity	Unit Price	Price
D202	60/40 POZ	SK	100	\$8.25	\$825.00
D200	'A-CON' BLEND	SK	140	\$13.50	\$1,890.00
C310	CALCIUM CHLORIDE	LBS	654	\$0.75	\$490.50
C195	CELLFLAKE	LB	55	\$1.85	\$101.75
F103	CENTRALIZER, 8 5/8"	EA	2	\$90.00	\$180.00
F143	WOODEN CEMENT PLUG, 8 5/8"	EA	1	\$85.00	\$85.00
F173	GUIDE SHOE TEXAS PATTERN, 8 5/8"	EA	1	\$285.00	\$285.00
F263	BAFFLE PLATE ALUMINUM, 8 5/8"	EA	1	\$72.00	\$72.00
R701	CEMENT HEAD RENTAL	EA	1	\$250.00	\$250.00
E107	CEMENT SERVICE CHARGE	SK	240	\$1.50	\$360.00
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	40	\$3.00	\$120.00
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	436	\$1.25	\$545.00
R202	CASING CEMENT PUMPER, 501-1000'	EA	1	\$880.00	\$880.00

Sub Total: \$6,084.25

Discount: \$1,521.06

Discount Sub Total: \$4,563.19

Tax Rate: 5.90% **Taxes:** \$0.00

(T) Taxable Item

Total: \$4,563.19

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

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TREATMENT REPORT 03572

Customer ID	Date
Customer Herman Loeb	7-29-81 ORIGINAL
Lease	Lease No. Well #

Field Order # 03377	Station Pratt KS	Casing 8 5/8	Depth 632	County Kiowa	State KS
Type Job Surface New Well ✓			Formation	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 140 sk's A-Con	RATE	PRESS 1000	ISIP
Depth 590	Depth PBTD	From	To	Exp. Prod 370 CC 1/4 cell/plate	Max		5 Min.
Volume 37.5	Volume	From	To	Prod 2.89 sk's 11.6 ppg	Min		10 Min.
Max Press 1000	Max Press	From	To	Frac 100 sk's 60/40 por	Avg		15 Min.
Well Connection	Annulus Vol.	From	To	320 CC 1/4 cell	HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush 72 + 22 = 94 Bbl's	Gas Volume		Total Load

Customer Representative Rick Smith	Station Manager D. Autry	Treater D. Scott
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Service Units	106	83	38	70
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1500					On hoc w/ Trk's Safety mtg burde shoe & Baffle Plate on S.J. Cent. 1 + 5
					Req on Bottom Break Circ w/ Rig
1841	200		5	6	H2O Spacer
1843	200		72	6	St mixing head Cmt @ 11.6 ppg 140 sk
1853	100		22	6	St mixing tail Cmt @ 14.5 ppg 100 sk
1857	0				Chase In + Release Plug
1859	100			3	St Disp w/ H2O
1913	600		37.5	0	Plug Down on Plate Chase In w. H. Circ Bbl's Cmt 10 = sk's 20

Job Complete
Thank you Scotty

ORIGINAL

FIELD ORDER

U3377



INVOICE NO.		Subject to Correction		Well #		Legal	
Date 7-21-01		Lease Nichols D		5		20-29-18w	
Customer ID		County Kiowa		State KS		Station Pratt KS	
Herman Loeb		Depth 23 ppp		Formation		Shoe Joint 42.16	
		Casing 8 7/8		Casing Depth 632		TD 640	
		Customer Representative Rick Smith		Treater D. Scott		Job Type Surface New Well	

CHARGE

AFE Number	PO Number	Materials Received by
		X Rick Smith

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D202	100 sks	60140 por Cmt ✓				
D200	140 sks	A-Con Cmt ✓				
C310	654 lb	Calcium Chloride ✓				
C195	35 lb	Cellulose ✓				
F103	2 ea	8 7/8 Centralizers ✓				
F143	1 ea	8 7/8 Wood Plug ✓				
F173	1 ea	8 7/8 Guide Shoe Texas ✓				
F262	1 ea	8 7/8 Baffle Plate ✓				
R701	1 ea	Cmt Head Rental				
E107	240 sk	Cmt Serv Charge				
E100	1 ea	UNITS 1 way MILES 40				
F104	436+M	TONS 1 way MILES 40				
R202	1 ea	EA 301-1000 PUMP CHARGE				
Discounted Price =				4363.19		
Plus Tax						