ORIGINAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 6039
Name: L. D. Drilling, Inc.
Address: 7 SW 26 Ave.
City/State/Zip: Great Bend, KS 67530
Purchaser: NCRA
Operator Contact Person: L. D. Davis
Phone: (620) 793-3051
Contractor: Name: Southwind Drilling, Inc.
License: 33350
Wellsite Geologist: Kim Shoemaker

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Designate Type of Completion:

✓ New Well ___ Re-Entry ___ Workover
✓ Oil ___ SWD ___ SIOW ___ 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.

8/10/04	8/15/04	8/20/04
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 009-24798-00-00
County: Barton
80'E NW SE NE Sec. 12 Twp. 18 S. R. 14 ☐ East ☑ West
1650 feet from S / (N) (circle one) Line of Section
910 feet from (E) / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE NW SW
Lease Name: Glass Well #: 2
Field Name: Boyd Crossing
Producing Formation: Arbuckle
Elevation: Ground: 1853' Kelly Bushing: 1863'
Total Depth: 3340 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at 795 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 WHM 2-12-07

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content ___ ppm Fluid volume ___ bbls
Dewatering method used
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: Secretary/Treasurer Date: 9/23/04

Subscribed and sworn to before me this 23 day of September, 20 04.

Notary Public: Rashell Patten
Rashell Patten
Date Commission Expires: 2-2-07

NOTARY PUBLIC - STATE of KANSAS
Rashell Patten
My Appt. Exp. 2-2-07

KCC Office Use ONLY

✓ Letter of Confidentiality Received
If Denied, Yes ☐ Date:
✓ Wireline Log Received
✓ Geologist Report Received
___ UIC Distribution

Side Two

Operator Name: L. D. Drilling, Inc. Lease Name: Glass Well #: 2

Sec. 12 Twp. 18 S. R. 14 ☐ East ☑ West County: Barton

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 (Attach Additional Sheets) ☑ Yes ☐ No

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run (Submit Copy) ☑ Yes ☐ No

List All E. Logs Run:

Dual Induction Log, Sonic Cement Bond Log, & Dual Compensated Porosity Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Anhydrite	800	+1070
Topeka	2736	-873
Heebner	3014	-1153
Brown Lime	3092	-1229
Lansing	3103	-1240
Base KC	3310	-1447
Arbuckle	NR	

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 used	12 1/4"	8 5/8"	28#	795'	Pozmix	125	60/40
Production new	7 7/8"	5 1/2"	14#	3336'	AA-2	150	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives

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
	2964 - 2968	500 gal 15%, NEFE	

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TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	3020'	none	☐ Yes ☑ No

Date of First, Resumerd Production, SWD or Enhr.	Producing Method
8/21/04	☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	60		15		29

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)

HESDINGTON - STANLEY'S CO. 2W - 14S - W into

ACID SERVICES, LLC

FIELD ORDER 8161

Subject to Correction

INVOICE NO.				
Date 8-10-04	Lease GLASS	Well # 2	Legal 12-18-14	
Customer ID	County BARTON	State KS.	Station PRATT, KS	
L. D. DRILLING	Depth	Formation	Shoe Joint	
	Casing 8 5/8	Casing Depth 827	TD	Job Type SURFACE-NW
	Customer Representative D. KRIER		Treater K. GORSLEY	
E Number	PO Number	Materials Received by X Darryl Krier		

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING CORRECTION	ACCOUNTING AMOUNT
201	190 SK	A-CON CEMENT				
203	125 SK	60/40 POZ CEMENT				
310	861 lb.	CALCIUM CHLORIDE				
163	1 EA.	8 5/8 WOOD PLUG				
100	60 mile	HEAVY VEH. MILE.				
101	60 mile	PICKUP MILE.				
104	861 TM	BULK DELIVERY				
107	315 SK.	CEMENT SERV. CHARGE				
202	1 EA.	PUMP CHARGE				
701	1 EA	CEMENT HEAD RENTAL				

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UNITS	MILES
TONS	MILES
EA.	PUMP CHARGE

PRICE = 5821.16

TOTAL

0244 NE Hiway 61 · P.O. Box 8613 · Pratt, KS 67124-8613 · Phone (620) 672-1201 · Fax (620) 672-5383

ylor Printing, Inc.

White - Accounting • Canary - Customer • Pink - Field Office

TREATMENT REPORT

ACID SERVICES, LLC

Customer ID			Date	8-10-04	
Customer	C.D. DRILLING				
Lease	GLASS		Lease No.		Well # 2
Order # 161	Station PRATT, KS.	Casing 8 5/8	Depth 827	County BARTON	State KS.
Job SURFACE - NEW		Formation		Legal Description 12-18-14	

PIPE DATA		PERFORATING DATA		FLUID USED
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid
Depth 827	Depth	From	To	Pre Pad
Volume	Volume	From	To	Pad
Press	Max Press	From	To	Frac
Connection	Annulus Vol.	From	To	
Depth	Packer Depth	From	To	Flush

TREATMENT RESUME		
RATE	PRESS	ISIP
Max		5 Min.
Min		10 Min.
Avg		15 Min.
HHP Used		Annulus Pressure
Gas Volume		Total Load

Customer Representative	Station Manager	Treater
D. KRUSE	MURPHY	GOODSELL

Service Units									
120	27		75						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
700					ON LOCATION
					RUN 827' 8 5/8 CASING
					HIT BOTTOM - BREAK CIRC
					MIX CEMENT
715	200		90	6	190 SK A-CON 3% CC.
			25	6	125 SK. 60/40 2% GEL, 3% CC
			115		
					STOP - RELEASE PLUG
	0		0	6	START DISP.
730	400		50	6	PLUG DOWN
					CIRC. 30 SK. CEMENT TO PIT
730					JOB COMPLETE
					THANKS - KEVIN

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ACID SERVICES, LLC

INVOICE NO.

Subject to Correction

FIELD ORDER 8754

Date	Lease	Well #	Legal
8-15-04	Glass	2	12-18s-14w
Customer ID	**County**	**State**	**Station**
	Barton	KS	Pratt KS
L.D. Drilling	**Depth**	**Formation**	**Shoe Joint**
		TP = 3355	9.55
	Casing	**Casing Depth**	**TD**	**Job Type**
	5 1/2	3339	3340	Longstring New Well
	Customer Representative		**Treater**
	L.D. Davis		D. Scott

E Number | PO Number

Materials Received by X L.D. Davis By D. Scott

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING CORRECTION	ACCOUNTING AMOUNT
205	150 ski	AA-2 Common				
203	26 ski	60-40 poz Common				
321	734 Lbi	Gilsonite				
221	776 Lbi	Salt				
95	113 Lbi	FLA-322				
144	43 Lbi	Cmt Friction Reducer				
43	15 Lbi	Defoamer				
94	36 Lbi	Cellflake				
302	500 gali	mud Flush				
101	6 ea	Centralizers 5 1/2				
191	1 ea	Guide Shoe "				
281	1 Ea	ISFV w/Fill "				
143	1 Ea	Top Swiper Plug "				
100	1 Ea	Trk mi 1way 60 mi				
107	175 ski	Cmt Serv Chg				
104	489 tm	Bulk Delv				
207	1 ea	Pump Charge				
101	1 Ea	Pickup mi 1way 60 mi				
701	1 ea	Cmt Head Rental				
		Discounted Price =	6473.74			

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TOTAL

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ACID SERVICES, INC.

TREATMENT REPORT

Customer ID		Date	8-15-04
Customer	L.D. Drilling		
Lease	Glass	Lease No.	Well # 2
Order # 3754	Station Pratt KS	Casing 5 1/2 Depth 3339	County Barton State KS
Job	Longstring New Well	Formation	Legal Description 12-18s-14w

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft 1.44	15.0	Acid 150 ski AA-2	RATE	PRESS 2000	ISIP
Depth 3345	Depth PBTD	From	To	Pre Pad 255k por Plugging	Max		5 Min.
Volume 31.6	Volume	From	To	Pad	Min		10 Min.
Max Press 2000	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 72 Bbl mud	Gas Volume		Total Load

Customer Representative L.D. Davis	Station Manager Dave Autry	Treater D. Scott	
Service Units 118	27	46	72

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1100					On loc w/ Trki Safety mtg
					Guide shoe Bottom IS FV Top S J
					Cent 1-4-6-8-10-12
					Csg on Bottom Drop Ball & Circ w/ Rig
1147	200		5	4	H2O Spacer
1148	200		12	4	St mud Flush
1150	200		5	4	H2O Spacer
1152	200		38.4	4.5	St mixing Cmt @ 15.0 ppg 150 ski
1205	0		10	5	Close In & Wash Pump & line
1208	0			7	Release Plug & St Disp w/ H2O
1216	250		64	7	64 Bbl Disp Out lift Cmt
1220	1200		81.6	0	Plug Down 1200 psi Test Csg
1222	0				Release psi
					Plug R.H. & M.H. w/ 25sk por
					Good Circ Thru Job
					Job Complete
					Thank you Scotty

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