

15-185-23235-00-01

14-21S-13W

WELL HISTORY  
HALL "C" #1-14  
SW-SE-NW-SE  
SEC 14-21S-13W  
STAFFORD COUNTY, KS

3/03/04 TO 3/16/04. MULL DRILLED WELL TO TOTAL DEPTH OF 3750'. AFTER LOGS WERE RUN L. D. DRILLING ASSUMED OWNERSHIP OF WELL. 4-1/2" 10-1/2# CASING WAS SET AT 3747' AND CEMENTED WITH 175 SACKS 50/50 POZMIX CEMENT AND 25 SACKS 60/40 POZMIX PLUS ADDITIVES. P.B.T.D. WAS CALLED AT 3695'.

3/19/04. LOG TECH RUNS SONIC BOND LOG 2950'-3695'. CALLED TOP OF CEMENT COLUMN AT 3070'. PERFORATED THE ARBUCKLE AT 3570-73' WITH 2 SHOTS PER FOOT (EXPENDABLES).

3/20/04. RIGGED UP PLAINS WELL SERVICE. SWABBED THE HOLE DOWN TO 3695'. ACIDIZED THROUGH THE CASING WITH 500 GALLONS 28% NEFE. PRESSURE THE ARBUCKLE PERFORATIONS TO 1800# BEFORE THE ZONE BEGAN TAKING THE TREATMENT. TREATED THE ARBUCKLE AT 1100# AT 3 BARRELS PER MINUTE; INSTANT SHUT-DOWN WAS 900#, BLED DOWN TO 550# IN 15 MINUTES. BLED BACK 2 BARRELS AND BEGAN SWABBING BACK THE 72 BARRELS OF LOAD. RECOVERED 60 BARRELS, TESTED THE ZONE AT 1.74 BARRELS OF OIL PER 30 MINUTES (NO WATER). REACIDIZED THE ARBUCKLE WITH 1500 GALLONS NEFE. TREATED THE ARBUCKLE AT 900# AT 4 BARRELS PER MINUTE; INSTANT SHUT-DOWN WAS 800#, BLED DOWN TO 500# IN 15 MINUTES. SWABBED BACK 79 BARRELS OF THE 96 BARRELS OF LOAD; TESTING 3 BARRELS OF OIL PER HALF-HOUR. SDFN.

3/22/04. WEEKEND FILLUP WAS 1500' WITH 400' OF OIL ON TOP. SWABBED ANOTHER 28 BARRELS, TESTED 3-1/2 BARRELS PER 30 MINUTES (50% OIL). RAN TUBING AND RODS. RELEASED RIG.

3/23/04 TO 3/25/04. SET TANK BATTERY, RAN 3" SCHEDULE 40 PLASTIC LEAD LINE AND STARTED WELL UP.

3/26/04. WELL MADE 35 BARRELS IN 14 HOURS, 50% OIL.

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WORKOVER

3/31/04. RIGGED UP PLAINS, INC. PULLED THE RODS, PUMP, AND TUBING. LOG-TECH PERFORATED THE ARBUCKLE AT 3594-97' WITH 2 SHOTS PER FOOT. FLUID LEVEL WAS 3450'. RAN IN WITH TUBING AND RETRIEVABLE PACKER ON BOTTOM. COPELAND ACID SPOTTED 2 BARRELS OF ACID ACROSS THE NEWEST ARBUCKLE PERFORATIONS. SET THE PACKER AT 3581' AND BEGAN TREATING THE NEW ZONE WITH 750 GALLONS 28% NEFE ACID. THE ZONE DID NOT LOAD, HAD A STRONG BLOW ON THE ANNULUS. APPEARS THE TWO ARBUCKLE SETS OF PERFORATIONS ARE IN COMMUNICATION. RELEASED AND RESET THE PACKER ABOVE BOTH SETS AT 3560'. FINISHED THE TREATMENT BY PUMPING INTO BOTH ZONES TOGETHER AT 6-1/2 BARRELS PER MINUTE AT 1500# SURFACE PRESSURE; INSTANT SHUT-DOWN WAS 700#. RELEASED THE PACKER AND PULLED THE TUBING STRING. RAN PRODUCTION TUBING BACK TO BOTTOM. SDFN.

4/01/04. RAN PUMP AND RODS IN WELL. RELEASED RIG.

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RECOMPLETION

6/14/04. RIGGED UP PLAINS, INC. WORKOVER RIG. PULLED THE RODS, PUMP, AND TUBING FOR THE WELL. RAN IN WITH RETRIEVABLE PACKER AND TUBING. SDFN.

6/15/04. SET PACKER AT 3475'. PUT ON WORKING HEAD AND SET SQUEEZE MANIFOLD. SQUEEZED ARBUCKLE PERFORATIONS 3570-73' & 3594-97' WITH 75 SACKS COMMON CEMENT TO 1500#. RELEASED PACKER AND REVERSED OUT UNTIL CLEAN. PULLED THE TUBING AND SQUEEZE PACKER. SDFN.

6/16/04. TRIPPED IN WITH DRILL BIT, 2 DRILL COLLARS, AND 109 JOINTS OF TUBING. TAGGED THE TOP OF THE CEMENT AT 3463'. DRILLED OUT CASING CEMENT TP 3614'. PULLED THE TUBING, DRILL COLLARS, AND BIT. SWABBED THE CASING UNTIL DRY. SDFN.

6/17/04. TAGGED FLUID AT 3570'. COPELAND PUMPED 55 GALLONS ACETIC ACID AND 400 GALLONS OF DIESEL DOWN THE CASING AND DISPLACED THE MIXTURE AT 1/4 BARREL PER MINUTE AT 1000-1100#. APPARENTLY THE ARBUCKLE PERFORATIONS AT 3570-73' ARE NOT COMPLETELY SQUEEZED. LOG-TECH SET DRILLABLE PLUG AT 3560' ABOVE THE RECENTLY SQUEEZED ARBUCKLE PERFORATIONS. SWABBED THE CASING UNTIL IT WAS DRY, NO FLUID ENTRY. ADDED SOME WATER TO PERFORATE. LOG-TECH PERFORATED THE CONGLOMERATE AT 3516-26' WITH 2 SHOTS PER FOOT. SWABBED THE WELL DRY, NO FLUID ENTRY. COPELAND ACIDIZED DOWN THE CASING WITH 500 GALLONS 15% NE-FE (NO DETAILS). LET ACID SET OVER NIGHT TO SOAK AWAY INTO THE CONGLOMERATE. SDFN.

6/18/04. TAGGED THE FLUID AT 125' FROM SURFACE, WELL TOOK ONLY 3 BARRELS OVER NIGHT. SWABBED THE WELL UNTIL IT WAS DRY. TESTED FOR 2 HOURS, COULD NOT GET ANY FLUID ENTRY. LAID DOWN THE RODS AND TUBING FROM THE DERRICK. RELEASED THE RIG. IT WAS TOO MUDDY TO LEAVE LOCATION. SDFN.

6/21/04. MET WITH DOZER. PULLED RIG OUT TO COUNTY ROAD.

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CONCURRENCE  
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STAFFORD COUNTY, KS

RECOMPLETION

6/29/04. BACKED IN NORTH FORK WELL SERVICE'S DOUBLE DRUM UNIT.

6/30/04. RIGGED UP UNIT OVER WELL. PUT SANDLINE DRILL TOGETHER AND RAN IN TO DRILL OUT THE BRIDGE PLUG AT 3560'. DRILL CAME APART WHILE DRILLING. RAN IN WITH TUBING AND FISHING TOOLS TO RECOVER BOTTOM SECTION OF THE DRILL. NO LUCK SO FAR. SDFN.

7/01/04. CONTINUED FISHING FOR SANDLINE DRILL. PULLED THE TUBING AND RECOVERED THE SANDLINE DRILL. CALLED FOR ANOTHER SANDLINE DRILL. RAN DRILL AND DRILLED OUT THE BRIDGE PLUG. PULLED THE SANDLINE DRILL AND SDFN.

7/02/04. RAN BIT, 3 DRILL COLLARS, AND TUBING. RIGGED UP POWER SWIVEL AND MUD PUMP. DRILLED OUT THE BRIDGE PLUG CARCUS AND 12-15' OF CEMENT. PULLED 60 JOINTS OF TUBING AND SDFN.

7/03/04. PULLED THE REMAINDER OF THE TUBING, COLLARS, AND BIT. RAN SQUEEZE PACKER AND TUBING. SQUEEZED THE CONGLOMERATE PERFORATIONS 3516-26' AND ARBUCKLE PERFORATIONS 3570-73' (LEAKING) WITH 100 SACKS COMMON. THE MAXIMUM SQUEEZE PRESSURE WAS 1500#. TRIED TO REVERSE OUT BUT HAD WAITED TOO LONG. PULLED THE TUBING AND PACKER. SDFN.

7/06/04. RAN IN BIT, 3 DRILL COLLARS, AND TUBING. RIGGED UP THE MUD PUMP AND POWER SWIVEL. DRILLED OUT THE CEMENT SQUEEZE AND TESTED THE CASING FROM SURFACE TO 3695' TO 300#, HELD GREAT. DRILLED OUT THE CASING SHOE AND 120' OF NEW OPEN HOLE. THE TOTAL DEPTH OF THE WELL IS NOW 3886'. PULLED 40 JOINTS OF TUBING AND SDFN.

7/07/04. PULLED THE REMAINDER OF THE TUBING, COLLARS, AND BIT. RAN 4 JOINTS OF TAILPIPE, MODEL R-4 PACKER, AND TUBING. SET PACKER AT 3707' (TAILPIPE AT 3832'). COPELAND ACIDIZED DOWN THE CASING WITH 1500 GALLONS NE-FE AT 4-1/2 BARRELS PER MINUTE AT 150# SURFACE PRESSURE. WELL WAS ON VACUUM AT THE END OF THE TREATMENT. TOOK INJECTION TEST WITH ACID TRUCK, WELL WILL TAKE 2 BARRELS PER MINUTE ON VACUUM. PULLED THE TUBING, PACKER, AND TAILPIPE. WILL RUN DISPOSAL STRING AND COATED PACKER AFTER MAKING APPLICATION. RELEASED THE RIG.

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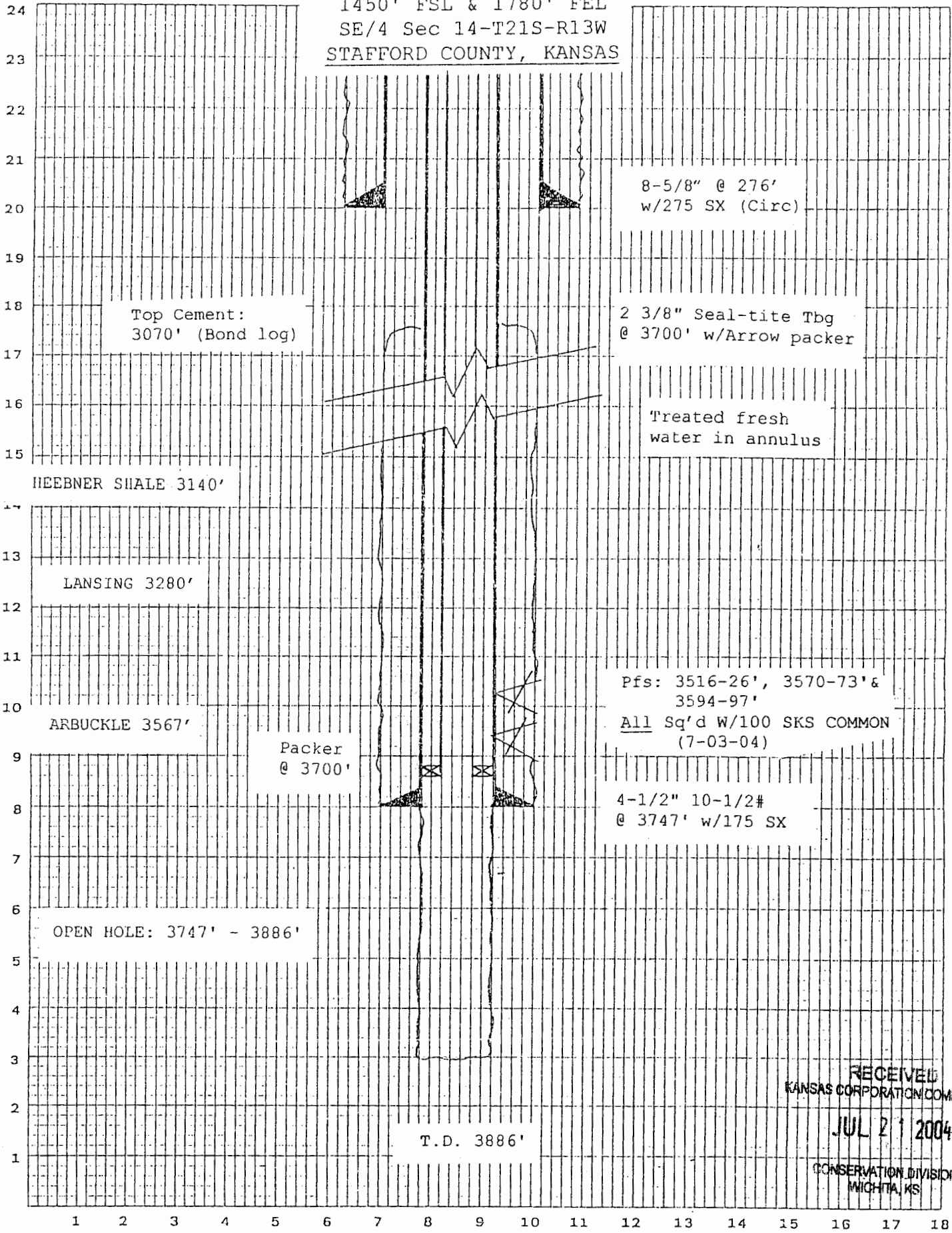
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WICHITA, KS

WELLDROME SKETCH

HALL "C" #1-14

1450' FSL & 1780' FEL  
SE/4 Sec 14-T21S-R13W  
STAFFORD COUNTY, KANSAS



8-5/8" @ 276'  
w/275 SX (Circ)

Top Cement:  
3070' (Bond log)

2 3/8" Seal-tite Tbg  
@ 3700' w/Arrow packer

Treated fresh  
water in annulus

HEEBNER SHALE 3140'

LANSING 3280'

ARBUCKLE 3567'

Packer  
@ 3700'

Pfs: 3516-26', 3570-73' &  
3594-97'

All Sq'd w/100 SKS COMMON  
(7-03-04)

4-1/2" 10-1/2#  
@ 3747' w/175 SX

OPEN HOLE: 3747' - 3886'

T.D. 3886'

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WICHITA, KS



# Sonic Cement Bond Log

Ph. (785) 625-3858

File No.	Company <b>L.D. DRILLING, INC.</b>	
	Well <b>HALL "C" #1-14</b>	
	Field	
	County <b>STAFFORD</b>	State <b>KANSAS</b>
	Location <b>1450' FSL &amp; 1780' FEL</b>	Other Services
	Sec: <b>14</b>	Twp: <b>21S</b> Rge: <b>13W</b>
Permanent Datum	<b>GROUND LEVEL</b>	Elevation <b>1863</b>
Log Measured From	<b>KELLY BUSHING 9</b>	<b>Ft. Above Perm. Datum</b>
Drilling Measured From	<b>KELLY BUSHING</b>	
		Elevation K.B. <b>1872</b> D.F. G.L. <b>1863</b>
Run Number	<b>ONE</b>	
Date Survey	<b>MARCH 19, 2004</b>	
Date Cementing	<b>3-15-04</b>	
Type Cementing Operation	<b>PRIMARY</b>	
Depth Driller	<b>3750</b>	
Depth Logger	<b>3695</b>	
Logged Interval	<b>3693</b> to <b>2950</b>	to
Casing Driller	<b>4 1/2" @ T.D.</b>	@
Float Collar -- D.V. Tool	<b>////</b>	<b>////</b>
Squeeze Depth	<b>////</b>	
Amount & Type Cement	<b>////</b>	
Amount & Type Admix	<b>////</b>	
Type Fluid In Hole	<b>WATER</b>	
Fluid Level	<b>FULL</b>	
Salinity PPM CL	<b>////</b>	
Weight lb/gal -- Vis.	<b>////</b>	<b>////</b>
Approx. Logged Cement Top	<b>3070</b>	
Calculated Cement Top	<b>3100</b>	
Max. Hole Temperature	<b>////</b>	
Tool No.	<b>25</b>	
Spacing Recorded	<b>3' 5'</b>	
Equipment -- Location	<b>5</b>	<b>PRATT, KS.</b>
Recorded By	<b>K. SCHMEIDLER</b>	
Witnessed By	<b>L.D. DAVIS</b>	

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