

163-233030000

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

API NO. 15- 163-23303 0000

ORIGINAL

County Rooks

-SW - NW - NW Sec. 30 Twp. 8S Rgs. 17W X

4290 Feet from S/N (circle one) Line of Section

330 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 Bird Well # 17

Field Name Dopita

Producing Formation Lansing KC

Elevation: Ground 1983 KB 1991

Total Depth 3783 PBDT

Amount of Surface Pipe Set and Cemented at 220.73 Feet

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set 1312 Feet

If Alternate II completion, cement circulated from 1312

feet depth to Surface w/ 150 sx cmt.

Drilling Fluid Management Plan A/H 2, 12-30-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 400 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.

Operator: License # 5285

Name: THE DANE G. HANSEN TRUST

Address P.O. box 187

City/State/Zip Logan, Kansas 67646

Purchaser:

Operator Contact Person: Dane G. Bales

Phone (785) 689-4816

Contractor: Name: Discovery Drilling Inc

License: 31548

Wellsite Geologist: J.E. Jespersen

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD S1OW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

8/14/98 8/19/98 8/20/98

Spud Date Date Reached TD Completion Date

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 Dane G. Bales

Manager

Title Manager Date 12/21/98

Subscribed and sworn to before me this 21 day of December, 1998.

Notary Public Betty Jane Bittel

Betty Jane Bittel

Date Commission Expires July 17, 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)



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WICHITA, KANSAS
18-23-1998
FILED

Operator Name THE DANE G. HANSEN TRUST

Lease Name Bird

Well # 17

Sec. 30 Twp. 8S Rge. 17W
 East
 West

County Rooks

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: Radiation Guard Log

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Anhydrite	1306	+685
B/Anhydrite	1343	+648
Topeka	2892	-901
Heebner	3106	-1115
Toronto	3127	-1136
Lansing	3146	-1155
BKC	3374	-1383
Arbuckle	3410	-1419
TD	3784	-1793

No DST's.

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 Pipe	12 1/4	8 5/8	20	220.73	60/40Poz	145	2%Gel&3%CC
Production St.	7 7/8	5 1/2	14	3445	EA/2	110	
			DV@	1312	Mid-ConII	150	

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	
4	3128-30		
4	3146-5024		
4	3184-90		
4	3302-06		
4	3321-24		

TUBING RECORD Size 2 3/8" Seal-Tite Set At 3078 Packer At 3078 Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. _____ Producing Method Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	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
 Other (Specify) _____

Production Interval _____

15-163-23,303-00-00



CHARGE TO
D.G. HANSEN TRUST
 ADDRESS
P.O. BOX 187
 CITY, STATE, ZIP CODE
LOGAN, KS 67646-0187

ORIGINAL - DUNCAN COPY TICKET
 No. **391955 - 3**
ORIGINAL
 PAGE 1 OF 2

SERVICE LOCATIONS
 1. **HAYS, KS**
 WELL/PROJECT NO. **17** LEASE **RDD** COUNTY/PARISH **ROOKS** STATE **KS** CITY/OFFSHORE LOCATION
 2. TICKET TYPE SERVICE NITROGEN JOB? YES NO CONTRACTOR **DISCOVERY DRIG.** RIG NAME/NO. **#1** SHIPPED VIA **CT** DELIVERED TO **LOGAN** ORDER NO.
 3. WELL TYPE **01** WELL CATEGORY **01** JOB PURPOSE **010** WELL PERMIT NO. **15.163233030000** WELL LOCATION **30 - 8s - 17w**
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING	DESCRIPTION	QTY	U/M	UNIT PRICE	AMOUNT
010	000-117		1	SB MILEAGE	50	MI	3.65	182.50
"	001-016		1	SB PUMP SERVICE	220	FT	1630.00	1630.00
"	030-503		1	SB WOOD PUG CALL	1	EA	95.00	95.00
"	350	890.10802	1	SB WELL-A	2	EA	18.43	36.86

received
 STATE CORPORATION COMMISSION
 FILED 2 5 1998
 12/23/1998
 CONSERVATION DIVISION
 Wichita, Kansas

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 **8-14-98** TIME SIGNED **2000** A.M. P.M.

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

TYPE LOCK	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		PAGE TOTAL 1944 36
BEAN SIZE	TYPE OF EQUALIZING SUB.	CASING PRESSURE	FROM CONTINUATION PAGE(S) 1895 49
DEPTH	TUBING SIZE	TUBING PRESSURE	WELL DEPTH
SPACERS	TREE CONNECTION	TYPE VALVE	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE 3839.85

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) RICH WANGREN	CUSTOMER OR CUSTOMER'S AGENT SIGNATURE 	HALLIBURTON OPERATOR/ENGINEER WAYNE WILSON	EMP # 89377	HALLIBURTON APPROVAL
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15-163-23, 303-00-00



TICKET CONTINUATION

TICKET No. 391955

HALLIBURTON ENERGY SERVICES

CUSTOMER D. G. Hansen Trust

WELL Bird #17

4:10 PM
8/14/98

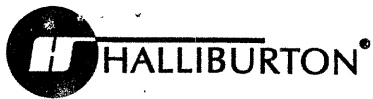
PAGE 2 OF 2

TRUCK# (S)	3258	ACCOUNTING			DESCRIPTION	QTY U/M		UNIT PRICE	AMOUNT	
PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	LOC	ACCT	DF		QTY	U/M	PRICE	AMOUNT	
504-136		1		SB	40/60 Pozmix Standard	145	sk	\$8.71	\$1,262.95	
506-121		1		SB	Halliburton Gel @2% ORIGINAL	2	sk		N/C	
509-406		1		SB	Calcium Chloride	4	sk	\$46.90	\$187.60	
500-207		1		SB	SERVICE CHARGE		CUBIC FEET	153	1.66	\$253.98
500-306		1		SB	MILEAGE CHARGE		TOTAL WEIGHT	12,222		
							LOADED MILES	25		
							TON MILES	152.769	1.25	\$190.96

RECEIVED
STATE COMPTROLLER'S OFFICE
DEC 23 1998
12/23/1998
CONSERVATION DIVISION
Wichita, Kansas

No. B 660373

CONTINUATION TOTAL \$ 1,895.49



ORIGINAL

15-163-23,303-00-00

JOB LOG 4239-5

REGION North America		NWA/COUNTRY MID CONTINENT		TICKET # 391955	TICKET DATE 8-14-98
MBU ID / EMP # MCHAD101 89377		EMPLOYEE NAME WAYNE WILSON		BDA / STATE KS	COUNTY ROOKS
LOCATION HAYS, KS		COMPANY D.G. HADJEW TRUST		PSL DEPARTMENT ZI	
TICKET AMOUNT 3839.85		WELL TYPE OI		CUSTOMER REP / PHONE RICH WALLGREN	
WELL LOCATION NE / PUEWIDLE, KS		DEPARTMENT ZI		API / UWI # 15163233030000	
LEASE / WELL # B280 17		SEC / TWP / RNG 30-8s-17w		JOB PURPOSE CODE 010	

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
WILSON 89377	3 1/2						
PEAWWISZEL 11682	3 1/2						

CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS) (GAL)	PUMPS		PRESS. (psf)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1600							CALLED OUT
	1830							ON LOCATION - DISCUSS JOB PROCEDURE
	2030							BREAK CIRCULATION - MUD PUMP
1	2058	6	34.1		✓	350		MIX CEMENT
	2107							RELEASE PLUG
	2107	6	0		✓	400		DISPLACE PLUG
	2110		13.1					PLUG DOWN
								SHUT IN CASING
								CIRCULATED 15 SKS CEMENT TO PIT. ✓
								WASH UP
								RACK UP
	2200							JOB COMPLETE
								THANK YOU
								WAYNE, TOM

RECEIVED
 STATE CORPORATION COMMISSION
 12/23/1998
 CONSERVATION DIVISION
 Wichita Kansas



HALLIBURTON ENERGY SERVICES

1906-Q

CHARGE TO
D.G. HANSEN TRUST
 ADDRESS
P.O. Box 187
 CITY, STATE, ZIP CODE
LOGAN, KS 67646-0187

15-163-23,303-00-00

TICKET

391958 - 1

No.
ORIGINAL

PAGE 1 OF 2

SERVICE LOCATIONS 1. HAYS, KS	WELL/PROJECT NO 17	LEASE BERD	COUNTY/PARISH ROOKS	STATE KS	CITY/OFFSHORE LOCATION	DATE 8-20-98	OWNER SAME
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR DISCOVERY DRLLG.	RIG NAME/NO.	SHIPPED VIA CT	DELIVERED TO LOGAN	ORDER NO.
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO. 15163233030000	WELL LOCATION 30 - 85 - 17w		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT	
			LOC	ACCT	DF			U/M				
035	000-117		1		38	MILEAGE	50	MT	1	VT	3.65	182.50
	007-013	001-016	1		38	PUMP CHARGE 1 ST STAGE	3445	FT			1938.00	1938.00
	007-161		1		38	PUMP CHARGE 2 ND STAGE	1324	FT			1875.00	1875.00
	80	855.137	1		0	TRE-FLEX BASKET SHOE	1	EA	5 1/2"		1000.00	1000.00
	71	813.56325	1		38	CENTER TYPE P-ES TOP-92	1	EA			2884.00	2884.00
	75	813.16510	1		38	PLUG SET DU LATCH DOWN	1	EA			840.00	840.00
	50	806.60122	1		38	CENTRALIZERS - TURBO	6	EA			88.00	528.00
	320	806.71430	1		38	CMT - BASKETS	2	EA			122.00	244.00
	018-303		1		38	CLAYFOX II STATE CORPORATION COMMISSION	2	GAL			33.95	67.90
	018-315		1		38	MUDFLUSH	500	GAL			.80	400.00

REC 23 1998
 12/23/1998
 CONSERVATION DIVISION
 Wichita, Kansas

LEGAL TERMS: I, the undersigned, do hereby acknowledge and agree to the terms and conditions of this contract, which may be amended or modified by any written agreement signed by me. <input checked="" type="checkbox"/> Thomas ASL DATE SIGNED: 8-20-98 TIME SIGNED: 0700 <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M. <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered	TYPE LOCK BEAN SIZE DEPTH SPACERS	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN TYPE OF EQUALIZING SUB. CASING PRESSURE TUBING SIZE TUBING PRESSURE WELL DEPTH TREE CONNECTION TYPE VALVE	PAGE TOTAL 9759 FROM CONTINUATION PAGE(S) 5101 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE 15440.91
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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) Thomas ASL	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X Thomas ASL	HALLIBURTON OPERATOR/ENGINEER WAYNE WILSON	EMP # 89377	HALLIBURTON APPROVAL W. Long Smith
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15-163-23, 303-00-00



TICKET CONTINUATION

TICKET No. 391958

HALLIBURTON ENERGY SERVICES

CUSTOMER: D. G. Hansen Trust

WELL: Bird #17
 5:25 AM
 8/20/98
 PAGE 2 OF 2

Truck# (s) 4444-5070

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY U/M		QTY U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF						
504-308		1		38	Standard Cement	110	sk		\$12.13	\$1,334.30
504-280		1		38	Mid Con II	150	sk		\$14.17	\$2,125.50
509-406		1		38	Calcium Chloride	3	sk		\$46.90	\$140.70
509-968		1		38	Salt	550	lb.		\$0.18	\$99.00
507-210		1		28	Flocele	38	lb.		\$2.09	\$79.42
507-153		1		38	CFR-3	52	lb.		\$6.15	\$319.80
508-127		1		38	Cal Seal	5	sk		\$28.00	\$140.00
508-291		1		38	Gilsonite	550	lb.		\$0.58	\$319.00
500-207		1		38	SERVICE CHARGE			CUBIC FEET 303	1.66	\$502.98
500-306		1		38	MILEAGE CHARGE			TOTAL WEIGHT 26,934 LOADED MILES 25 TON MILES 336.675	1.25	\$420.84

ORIGINAL

RECEIVED
 STATE COMMISSION
 DEC 23 1998
 12-23-1998
 CONSERVATION DIVISION
 Wichita, Kansas

No. B 660376

CONTINUATION TOTAL \$ 5,481.54



JOB LOG 4239-5

ORIGINAL

15-163-23,303-00-00

REGION North America	NWA/COUNTRY MEXICO	TICKET # 391958	TICKET DATE 8-20-98
MBU ID / EMP # MCHA0101 89377	EMPLOYEE NAME WAYNE WILSON	BDA / STATE KS	COUNTY ROCK
LOCATION HAYS, KS	COMPANY D.G. HANSEN TRUST	PSL DEPARTMENT ZE	CUSTOMER REP / PHONE TOM ALM
TICKET AMOUNT 15440.94	WELL TYPE 01	API / UWI # 15163233030000	JOB PURPOSE CODE 035
WELL LOCATION NE1 PLATINUM, KS	DEPARTMENT ZE	SEC / TWP / RNG 30 - 8s - 17w	
LEASE / WELL # BDD 17			

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
WILSON 89377	6						
PFANNKUCHEL 41682	5						
BEERS 57220	5						

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0500							CALLED OUT
	0630							ON LOCATION - DISCUSS JOB PROCEDURE
	0930							BREAK CIRCULATION - MUD PUMP
	0935							DROP BALL - SET TROPEX SHOE - CALCULATE W/ MUD
1	1006	6	12	✓		250		PUMP MUD FLUSH
		6	20	✓		250		PUMP CLAYFIX II FLUSH
	1013	6	27.8	✓		200		MIX CEMENT
	1019							WASH OUT PUMP - LINES
	1020							RELEASE LATCH DOWN PLUG
	1023	7	0	✓		400		DISPLACE PLUG H2O 50 MWD 33.1
	1038	3	83.1			1500		PLUG DOWN
	1040					1500		PSE-UP LATCH DOWN PLUG
	1040							RELEASE PSE - SLOW
								OK PLUG HELD
	1041							DROP DV OPSJ PLUG - LOAD CLOSING PLUG
	1052					700		OPSJ DV TOOL - BREAK CIRCULATION
	1123	6	10	✓				PUMP H2O SPACE
	1115							PLUG RM - MH
	1128	6	83.1	✓		175		MIX CEMENT
	1140		0					RELEASE PLUG - CLOSING
	1141	5		✓		275		DISPLACE PLUG
	1148	3	32.3			1700		PLUG DOWN
	1148					1700		PSE UP - CLOSE DV TOOL
								OK RELEASE PSE - HELD
								CIRCULATED 10 SLS CEMENT TO PRT ✓
								WASH UP
								BACK UP
	1230							JOB COMPLETE

RECEIVED
 OPERATIONS DIVISION
 8/23/98
 WILSON
 HANSEN TRUST
 HAYS, KS

THANK YOU
WAYNE, ROW, TOM

ORIGINAL

ORIGINAL



REMIT TO: 4.
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

15-163-23,303-00-00

HALLIBURTON ENERGY SERVICES
A Division of Halliburton Company

INVOICE NO.	DATE
391955	08/14/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
ORD 17		ROOKS		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
AYS			SHOWN BELOW		08/14/1998
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
162900	RICH WALLGREN			COMPANY TRUCK	45266

D G HANSEN
BOX 187
LOGAN, KS 67646

DIRECT CORRESPONDENCE TO
P O BOX 1598
LIBERAL KS 67901

RECEIVED
AUG 28 1998
OK
DATE SALES

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	DATE	AMOUNT
	PRICING AREA - MID CONTINENT					
	JOB PURPOSE - CEMENT SURFACE CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	50 MI		3.65		182.50
		1 UNT				
001-016	CEMENTING CASING	220 FT		1,630.00		1,630.00
		1 UNT				
030-503	CMTG PLUG LA-11,CP-1,CP-3, TOP	8 5/8 IN		95.00		95.00
		1 EA				
350	HALLIBURTON WELD-A-AL FILLED	2 EA		18.43		36.86
	890.10802					
504-136	CEMENT - 40/60 POZNIX STANDARD	145 SK		8.71		1,262.95
506-121	HALLIBURTON-GEL 2%	2 LB		.00		N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	4 SK		46.90		187.60
500-207	BULK SERVICE CHARGE	153 CFT		1.66		253.98
500-306	MILEAGE CMTG MAT DEL OR RETURN	152.769 TM		1.25		190.96
	JOB PURPOSE SUBTOTAL					3,839.85
	INVOICE SUBTOTAL					3,839.85
	DISCOUNT-(BID)					2,227.08-
	INVOICE BID AMOUNT					1,612.77
	*--KANSAS STATE SALES TAX					41.73
	*--HAYS CITY SALES TAX					8.51
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$1,663.01

RECEIVED
AUG 22 1998
AG OK
Rich

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

ORIGINAL

15-163-23,303-00-00

ORIGINAL



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

9.

INVOICE

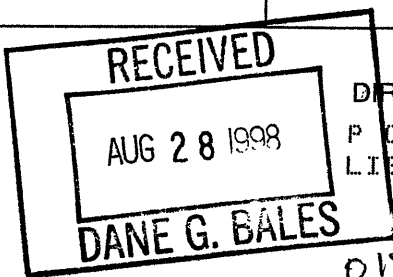
HALLIBURTON ENERGY SERVICES

A Division of Halliburton Company

INVOICE NO.	DATE
391958	08/20/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
WIRD 17		ROOKS		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
DAYS			SHOWN BELOW		08/20/1998
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
362900	THOMAS ALM			COMPANY TRUCK	45359

D G HANSEN
BOX 187
LOGAN, KS 67646

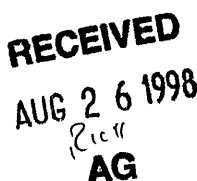


DIRECT CORRESPONDENCE TO:

P O BOX 1598
LIBERAL KS 67901

DK

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	50 MI		3.65	182.50
		1 UNT			
007-013	MULT STAGE CEMENTING-1ST STAGE	3445 FT		1,938.00	1,938.00
001-016		1 UNT			
007-161	MULT STAGE CEMENTING--ADD STAGE	1 STG		1,875.00	1,875.00
		1 UNT			
80	FORM PKR SHOE FLAP VLV 5 1/2"	1 EA		1,000.00	1,000.00
855.137					
71	CEMENTER-TYPE P ES 5-1/2 BRD	1 EA		2,884.00	2,884.00
813.56325					
75	PLUG SET - FREE FALL - 2-STAGE	1 EA		840.00	840.00
813.16511					
50	CENTRALIZR-TURBO-5-1/2 X 8-1/2	6 EA		88.00	528.00
806.60122					
320	BASKET-CMT-5 1/2 CSG X 17"OD-	2		122.00	244.00
806.71430					
018-303	CLAYFIX II, PER GAL	2		33.95	67.90
018-315	MUD FLUSH	500		.80	400.00
504-308	CEMENT - STANDARD	110		12.13	1,334.30
504-280	MIDCON-2 STANDARD CEMENT	150		14.17	2,125.50
509-406	ANHYDROUS CALCIUM CHLORIDE	3		46.90	140.70
509-968	SALT	550	LB	.18	99.00
507-210	FLOCELE	38	LB	2.09	79.42
507-153	CFR-3	52	LB	6.15	319.60
508-127	CAL SEAL 60	5	SK	28.00	140.00
508-291	GILSONITE BULK	550	LB	.58	319.00
500-207	BULK SERVICE CHARGE	303	CFT	1.66	502.98
500-306	MILEAGE CMTG MAT DEL OR RETURN	336.675	TMI	1.25	420.84



Aug 23 1998

STATE REVENUE COMMISSION

***** CONTINUED ON NEXT PAGE *****

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

ORIGINAL

15-163-23,303-00-00

ORIGINAL



REMIT TO: 10.
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES

A Division of Halliburton Company

INVOICE NO.	DATE
391958	08/20/1998

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
BIRD 17		ROOKS		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE			TICKET DATE
HAYS		SHOWN BELOW			08/20/1998
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
362900	THOMAS ALM			COMPANY TRUCK	45359

D G HANSEN
BOX 187
LOGAN, KS 67646

DIRECT CORRESPONDENCE TO:
P O BOX 1598
LIBERAL KS 67901

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	JOB PURPOSE SUBTOTAL				15,440.94
	INVOICE SUBTOTAL				15,440.94
	DISCOUNT-(BID)				5,487.52-
	INVOICE BID AMOUNT				9,953.42
	*--KANSAS STATE SALES TAX				349.11
	*--HAYS CITY SALES TAX				71.24

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INVOICE TOTAL - PLEASE PAY THIS AMOUNT ***** > \$10,373.77

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

15-163-23,303-00-00

BJC

J.E. Jespersen
Petroleum Geologist
BIG J CONSULTANTS
P.O. Box 16418
Wichita, KS 67216

ORIGINAL
15-163-23303

Geological Report

**D.G. Hansen Trust
#17 BIRD
SW/4 NW/4 NW/4
Section 30-T8S-R17W
Rooks County, Kansas**

CONSERVATION-DIVISION
Wichita, Kansas

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D.G. Hansen Trust
#17 BIRD

J.E. Jespersen
Page 2

ORIGINAL

August 21, 1998

15-163-23303

**#17 BIRD
SW/4 NW/4 NW/4
Section 30-T8S-17W
Rooks County, Kansas**

Elevations: 1991 Kelly Bushing
1988 Derrick Floor
1983 Ground Level

Wellsite Geologist: J.E. Jespersen

Contractor: Discovery Drilling - Rig #1

Commenced: August 14, 1998

Completed: August 20, 1998

Rotary Total Depth: 3783 feet

Log Total Depth: 3784 feet

Surface Casing: 8 5/8" @ 220 feet with 145 sacks

Production Casing: 5 1/2" @ 3445 feet with 110 sacks

Electrical Surveys: ELI Wireline: Radiation Guard Log

Hole Size: 12 1/4" from surface to 222 feet
7 7/8" from 222 feet to 3783 feet (RTD)

General Information: Samples saved from 2800 feet. Drilling time kept from 1300 to 1350 feet and 2800 to 3783 feet (RTD). Samples examined from 2800 feet to 3783 feet (RTD). Drilling supervised from 3000 to 3783 feet (RTD). Mud up at 2830 feet. Mud type, chemical.

12/23/1998

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DEVELOPER
STATE CORPORATION COMMISSION

15-163-23, 303-00-00.

D.G. Hansen Trust
#17 BIRD

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Page 3

FORMATION	LOG		SAMPLE		STRUCT COMP.
	TOP	DATUM	TOP	DATUM	
Anhydrite	1306	+ 685	1305	+ 686	
B/Anhydrite	1343	+ 648	1342	+ 649	
Topeka	2892	- 901	2890	- 899	
Heebner	3106	- 1115	3105	- 1114	8' Low
Toronto	3127	- 1136	3126	- 1135	7' Low
Lansing	3146	- 1155	3145	- 1154	9' Low
B/Kansas City	3374	- 1383	3373	- 1382	10' Low
B/Penn Congl					
Arbuckle	3410	- 1419	3412	- 1421	11' Low
Granite Wash	Not Logged		3782	- 1791	
Total Depth	3784	- 1793	3783	- 1792	

Reference/Structural Comparison: D.G. Hansen Trust #1 Bird, North offset

DAILY PENETRATION

Date	Depth	Remarks
8/14/98	- 0 -	Spud 3:45 PM 8 5/8" @ 220' Plug down 9:00 PM Drill plug 5:00 AM
8/15	345	Drilling
8/16	2047	Drilling
8/17	2602	Drilling
8/18	3082	Drilling
8/19	3487	Drilling
8/20	3783	RTD 8:45 PM 8/19/98 5 1/2" @ 3445' W/110 SX Top 150 sx cement circ Plug down 11:15 8/20/98

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#17 BIRD

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BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS
S	12 1/4	HTC	GT00C	222	222	2 1/4
1	7 7/8	HTC	ATJ11C	3783	3561	94

MUD RECORD

CHK	DEPTH	WT	VIS	FIL	PH	PV	YP	GELS	CHLORIDES	SOL
1					Native Solids					
2	2828	8.8	40	16.0	10.5	7	10	11 /12	6,000	4.0%
3	3089	9.0	40	12.0	10.5	9	11	12 /14	3,000	4.8%
4	3510	9.5	48	10.0	9.0	11	15	18 /24	3,000	8.3%

DRILL STEM TESTS

NO	INTERVAL	IFP	ISIP	FFP	FSIP	IHHPFH
----	----------	-----	------	-----	------	--------

No Tests

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 [DEC 23 1998]

D.G. Hansen Trust
#17 BIRD

J.E. Jespersen
Page 5

Geological Formations and Porosity Zones

A detailed lithological log was maintained from 2800 feet to 3783 feet (RTD). The following are formation tops, recoveries of drillstem tests, descriptions of reservoirs containing shows of oil and descriptions of reservoirs felt pertinent to the accumulation of hydrocarbons in the area. The depths are interpolated from drillers measurements and measured from the kelly bushing.

Anhydrite	Sample	1305 + 686
	E-Log	1306 + 685
B/Anhydrite	Sample	1342 + 649
	E-Log	1343 + 648
Topeka	Sample	2890 - 899
	E-Log	2892 - 901

SL 2968-2980 Limestone, buff, fine crystalline, fossiliferous, sucrosic. Fair to
EL 2970-2982 good intercrystalline porosity. No shows.
Judged this zone to be of no commercial value.

SL 3048-3056 Limestone, light buff, fine crystalline, fossiliferous. Fair
EL 3050-3053 intercrystalline and interfossiliferous porosity. **No free oil; rare spotted oil staining; no odor.**
Judged this zone to be of no commercial value.

SL 3072-3076 Limestone, grey to light buff, fossiliferous, fine crystalline. Fair
EL 3072-3074 interfossiliferous porosity. **Poor show brown live free oil; spotted brown oil staining; fair odor.**
Judged this zone to be of no commercial value.

Heebner	Sample	3105 - 1114
	E-Log	3106 - 1115

Toronto	Sample	3126 - 1135
	E-Log	3127 - 1136

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#17 BIRD

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Geological Formations and Porosity Zones

SL 3126-3129 Limestone, grey to light grey. Very fine crystalline, fossiliferous.
EL 3128-3130 Poor interfossiliferous porosity. **No free oil; spotted brown oil staining; no odor.**
Judged this zone to be of no commercial value.

Lansing Sample 3145 - 1154
E-Log 3146 - 1155

SL 3145-3150 Limestone, light buff, fine crystalline, oolitic, fossiliferous. Fair to
EL 3147-3152 good interoolitic porosity. **Poor show brown live free oil; spotted brown oil staining; slight odor.**
Judged this zone to be of no commercial value.

SL 3181-3190 Limestone, light buff, fine crystalline, fossiliferous. Fair to poor
EL 3186-3190 interfossiliferous and vugular porosity. **No free oil; rare spotted brown oil staining; no odor.**
Judged this zone to be of no commercial value.

SL 3203-3206 Limestone, light buff, fine crystalline, fossiliferous. Fair to poor
EL 3203-3206 interfossiliferous and vugular porosity. **No free oil; rare spotted brown oil staining; no odor.**
Judged this zone to be of no commercial value.

SL 3220-3223 Limestone, white, fine crystalline. Poor intercrystalline porosity.
No Zone **No free oil; spotted brown oil stain; no odor.**
Judged this zone to be of no commercial value.

SL 3228-3236 Limestone, light grey, fine crystalline, fossiliferous, slightly shaley.
EL 3224-3228 Poor to fair interfossiliferous porosity. **No free oil; very rare spotted oil stain; no odor.**
Judged this zone to be of no commercial value.

SL 3241-3250 Limestone, white to light buff, oolitic, fossiliferous. Fair interoolitic
EL 3243-3246 porosity. No shows. Judged this zone to be of no commercial value.

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#17 BIRD

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Geological Formations and Porosity Zones

SL 3275-3280 Limestone, white to light grey, fine crystalline, fossiliferous. Poor
EL 3276-3280 interfossiliferous porosity. No shows; no odor.
Judged this zone to be of no commercial value.

SL 3295-3306 Limestone, white, very fine crystalline, fossiliferous, oolitic. Fair
EL 3303-3308 to good interoolitic and vugular porosity. **No free oil; rare
spotted oil stain; no odor.**
Judged this zone to be of no commercial value.

SL 3319-3324 Limestone, light buff, fine crystalline, fossiliferous. Fair to good
EL 3320-3327 interfossiliferous porosity. **Poor show brown free oil; spotted to
saturated brown oil stain; very slight odor.**
Judged this zone to be of no commercial value.

SL 3346-3351 Limestone, light and grey to light buff. Fine crystalline,
EL 3345-3348 fossiliferous. Poor to fair interfossiliferous and vugular porosity.
No free oil; spotted brown oil stain; no odor.
Judged this zone to be of no commercial value.

SL 3362-3364 Limestone, light grey, fine crystalline, fossiliferous. Poor
EL 3366-3368 interfossiliferous porosity. No shows; no odor.
Judged this zone to be of no commercial value.

Base Kansas City	Sample	3373 - 1382
	E-Log	3374 - 1383

SL 3387-3390 Limestone, grey, fine crystalline, dolomitic. Poor intercrystalline
EL 3392-3397 porosity. **No free oil; spotted brown oil stain; no odor.**
Judged this zone to be of no commercial value.

SL 3396-3400 Limestone, light grey, fine crystalline, dolomitic. Fair
EL 3402-3408 intercrystalline porosity. **No free oil; spotted brown oil stain; no
odor.**
Judged this zone to be of no commercial value.

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 Wichita, Kansas
 12/23/1978

Geological Formations and Porosity Zones

Arbuckle

Sample 3412 - 1421
E-log 3410 - 1419

SL 3412-3420 Dolomite, light grey, fine crystalline, calcareous, sucrosic. Fair
EL 3410-3420 to good intercrystalline porosity. **Trace free oil; spotted to saturated oil stain; slight odor.**
Judged this zone to be of no commercial value.

SL 3420-3426 Dolomite, light grey to tan, fine to medium crystalline, sucrosic,
EL 3420-3427 oolitic. Fair to good intercrystalline and vugular porosity. **Fair show live brown free oil; spotted to saturated oil stain; good odor.**
Judged this zone to be of no commercial value.

SL 3426-3470 Dolomite, light grey to light buff, medium to coarse crystalline,
EL 3427-3455 rhombic crystals, sucrosic. Good intercrystalline and vugular porosity. **Fair show dark brown free oil; spotted to saturated brown oil stain; good odor.**
Judged this zone to be of no commercial value.

SL 3484-3528 Dolomite, buff to brown, medium to coarse crystalline. Fair
EL 3482-3530 intercrystalline porosity. No shows; sulfur odor.
Judged this zone to be of no commercial value.

SL 3528-3580 Dolomite, cream to light buff, medium to coarse rhombic
EL 3530-3570 crystalline. Good intercrystalline and vugular porosity. No shows; sulfur odor.
Judged this zone to be of no commercial value.

SL 3580-3649 Dolomite, white to light grey, medium to coarse rhombic
EL 3570-3650 crystalline. Sucrosic, good intercrystalline and vugular porosity. Sulfur odor.
Judged this zone to be of no commercial value.

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#17 BIRD

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Geological Formations and Porosity Zones

SL 3649-3675 Dolomite, light buff, medium crystalline, calcareous. Fair to good
EL 3650-3673 intercrystalline and vugular porosity. No shows.
Judged this zone to be of no commercial value.

SL 3675-3695 Dolomite, light buff, medium crystalline, calcareous. Poor to fair
EL 3673-3700 intercrystalline porosity. No shows.
Judged this zone to be of no commercial value.

SL 3695-3718 Dolomite, light buff, medium to coarse crystalline. Good
EL 3700-3720 intercrystalline and vugular porosity. No shows.
Judged this zone to be of no commercial value.

SL 3718-3732 Dolomite, white to light buff, medium to coarse crystalline,
EL 3720-3743 glaucomitic. Poor intercrystalline porosity. No shows.
Judged this zone to be of no commercial value.

SL 3732-3777 Dolomite, light buff, medium crystalline, glaucomitic. Fair to good
EL 3743-3766 intercrystalline and vugular porosity. No shows.
Judged this zone to be of no commercial value.

SL 3777-3782 Dolomite, light buff, medium to coarse crystalline, arenaceous.
EL 3766-3776 Sand grains medium to coarse, well rounded. Frosted grains.
Glaucomitic, hard. Fair to intercrystalline and intergranular
porosity.
Judged this zone to be of no commercial value.

Granite Wash Sample 3782 - 1791
E-Log Not Logged

SL 3782-3783 Granite; pink feldspar; quartz
Not Logged

Rotary Total Depth 3783 -1792

Electric Log Total Depth 3784 -1793

5 1/2" casing set @ 3445 feet with 110 sacks.

Top stage cemented with 150 bx and circulated.

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D.G. Hansen Trust
#17 BIRD

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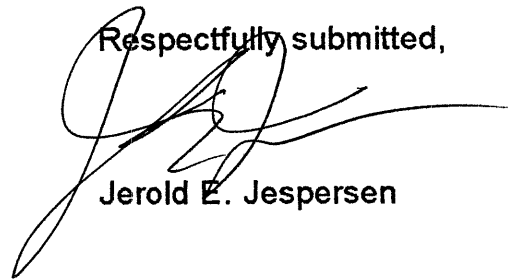
REMARKS and RECOMMENDATIONS

Due to the structural position of this well compared to the Bird #1, this well ran 8 to 11 feet low on all producing zones throughout the Lansing-Kansas City Zones and the Arbuckle Formation.

Due to the quality of shows and structural position, these zones merited no drillstem or any additional testing for the purpose of commercial production.

5 1/2" was run and set @ 3445 feet - open hole from 3445 to 3783 feet for conversion to a saltwater disposal.

Respectfully submitted,



Jerold E. Jespersen

JEJ:P
08/14/98:08/20/98:08/21/98

STATE OF KANSAS
COMMISSIONER OF REVENUE
DIVISION OF TAXATION
WICHITA, KANSAS
DEC 21 1998
12/23/1998

D.G. Hansen Trust
#17 BIRD

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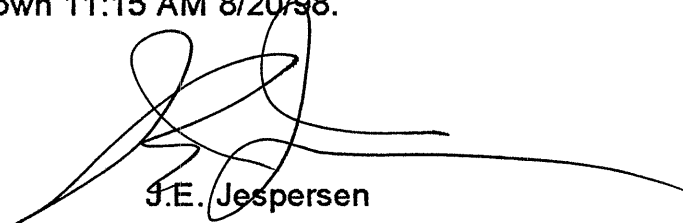
Casing Record - #17 BIRD
SW/4 NW/4 NW/4 - Sec 30-T8S-R17W
Rooks County, Kansas

Arbuckle Dolomite	3412'
Rotary Total Depth	3783'
Run & set 8 Jts	3419.56'
DV Tool set @ 1312' on 33rd Jt	1.50'
TriPlex Shoe @ 3420.92'	3.00'
Bottom of 5 1/2" casing @	3423.92'

Centralizers (6) set :	1st collar	3386'
	5th	3307'
	12th	3023'
Basket - DV tool & centralizer - 53rd		1328'
Basket & centralizer - 67th		719'
Left 4 jts of 5 1/2" on location (#86,87,88,89)		151.97'

Cementing - Halliburton
5 1/2" l@ 3745' w/110 sacks standard cement, 5% cal-seal, 1/2% CFR-3 with 5# p/sac gilsonite. Plug down 10:30 AM 8/20/98.

Top stage cemented with 150 sx Midcon II - 27% cc - .25# p/sac Flocele. Cement circulated. Plug down 11:15 AM 8/20/98.


J.E. Jespersen

08/21/98

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12/23/1998

COMPANY Hansen Trust FARM 1345 WELL NO. 17
 SEC. TWP. RGE. LOC. COUNTY Lincoln STATE Nebr.
 CONTRACTOR Discoury Drilling SIZE HOLE 7 7/8" DRILL PIPE 4 1/2" x 11'
 REMARKS: SIZE PUMP LINERS 3 1/2" LENGTH STROKE 11'

COMPANY Hansen Trust FARM 1345 WELL NO. 17
 SEC. TWP. RGE. LOC. COUNTY Lincoln STATE Nebr.
 CONTRACTOR Discoury Drilling SIZE HOLE 7 7/8" DRILL PIPE 4 1/2" x 11'
 REMARKS: SIZE PUMP LINERS 3 1/2" LENGTH STROKE 11'

DATE 8-5-98

DEPTH	TIME OF CLOCK	MIN.	REMARKS
32 1/2	23 1/2	1	
33	24	1	
34	25	1	
35	26	1	
36	27	1	
37	28	1	
38	29	1	
39	30	1	
40	31	1	
41	32	1	
42	33	1	
43	34	1	
44	35	1	
45	36	1	
46	37	1	
47	38	1	
48	39	1	
49	40	1	
50	41	1	
51	42	1	
52	43	1	
53	44	1	
54	45	1	
55	46	1	
56	47	1	
57	48	1	
58	49	1	
59	50	1	
60	51	1	
61	52	1	
62	53	1	
63	54	1	
64	55	1	
65	56	1	
66	57	1	
67	58	1	
68	59	1	
69	00	1	
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72	03	1	
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74	05	1	
75	06	1	
76	07	1	
77	08	1	
78	09	1	
79	10	1	
80	11	1	
81	12	1	
82	13	1	
83	14	1	
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85	16	1	
86	17	1	
87	18	1	
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93	24	1	
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95	26	1	
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97	28	1	
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99	30	1	
100	31	1	
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104	35	1	
105	36	1	
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107	38	1	
108	39	1	
109	40	1	
110	41	1	
111	42	1	
112	43	1	
113	44	1	
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115	46	1	
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138	09	1	
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141	12	1	
142	13	1	
143	14	1	
144	15	1	
145	16	1	
146	17	1	
147	18	1	
148	19	1	
149	20	1	
150	21	1	
151	22	1	
152	23	1	
153	24	1	
154	25	1	
155	26	1	
156	27	1	
157	28	1	
158	29	1	
159	30	1	
160	31	1	
161	32	1	
162	33	1	
163	34	1	
164	35	1	
165	36	1	
166	37	1	
167	38	1	
168	39	1	
169	40	1	
170	41	1	
171	42	1	
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174	45	1	
175	46	1	
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185	56	1	
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188	59	1	
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238	49	1	
239	50	1	
240	51	1	
241	52	1	
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243	54	1	
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245	56	1	
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248	59	1	
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253	04	1	
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255	06	1	
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258	09	1	
259	10	1	
260	11	1	
261	12	1	
262	13	1	
263	14	1	
264	15	1	
265	16	1	
266	17	1	
267	18	1	
268	19	1	
269	20	1	
270	21	1	
271	22	1	
272	23	1	
273	24	1	
274	25	1	
275	26	1	
276	27	1	
277	28	1	
278	29	1	
279	30	1	
280	31	1	
281	32	1	
282	33	1	
283	34	1	
284	35	1	
285	36	1	
286	37	1	
287	38	1	
288	39	1	
289	40	1	
290	41	1	
291	42	1	
292	43	1	
293	44	1	
294	45	1	
295	46	1	
296	47	1	
297	48	1	
298	49	1	
299	50	1	
300	51	1	
301	52	1	
302	53	1	
303	54	1	
304	55	1	
305	56	1	
306	57	1	
307	58	1	
308	59	1	
309	00	1	
310	01	1	
311	02	1	
312	03	1	
313	04	1	
314	05	1	
315	06	1	
316	07	1	
317	08	1	
318	09	1	
319	10	1	
320	11	1	
321	12	1	
322	13	1	
323	14	1	
324	15	1	
325	16	1	
326	17	1	
327	18	1	
328	19	1	
329	20	1	
330	21	1	
331	22	1	
332	23	1	
333	24	1	
334	25	1	
335	26	1	
336	27	1	
337	28	1	
338	29	1	
339	30	1	
340	31	1	
341	32	1	
342	33	1	
343	34	1	
344	35	1	
345	36	1	
346	37	1	
347	38	1	
348	39	1	
349	40	1	
350	41	1	
351	42	1	
352	43	1	
353	44	1	
354	45	1	
355	46	1	
356	47	1	
357	48	1	
358	49	1	
359	50	1	
360	51	1	
361	52	1	
362	53	1	
363	54	1	
364	55	1	
365	56	1	
366	57	1	
367	58	1	
368	59	1	
369	00	1	
370	01	1	
371	02	1	
372	03	1	
373	04	1	
374	05	1	
375	06	1	
376	07	1	
377	08	1	
378	09	1	
379	10	1	
380	11	1	
381	12	1	
382	13	1	
383	14	1	
384	15	1	
385	16	1	
386	17	1	
387	18	1	
388	19	1	
389	20	1	
390	21	1	
391	22	1	
392	23	1	
393	24	1	
394	25	1	
395	26	1	
396	27	1	
397	28	1	
398	29	1	
399	30	1	
400	31	1	
401	32	1	
402	33	1	
403	34	1	
404	35	1	
405	36	1	
406	37	1	
407	38	1	
408	39	1	
409	40	1	
410	41	1	
411	42	1	
412	43	1	
413	44	1	
414	45	1	
415	46	1	
416	47	1	
417	48	1	
418	49	1	
419	50	1	
420	51	1	
421	52	1	
422	53	1	
423	54	1	
424	55	1	
425	56	1	
426	57	1	
427	58	1	
428	59	1	

COMPANY HANSEN TRUST FARM R. 12 WELL NO. 17
 SEC. TWP. RGE. LOC. COUNTY ROCKS STATE KANS.
 CONTRACTOR Discovery Drilling Co. SIZE MOLE 2 1/2" DRILL PIPE 1 1/2" x 11.66'
 REMARKS: SIZE PUMP LINERS 1 1/2" LENGTH STROKE 14'

COMPANY HANSEN TRUST FARM R. 12 WELL NO. 17
 SEC. TWP. RGE. LOC. COUNTY ROCKS STATE KANS.
 CONTRACTOR Discovery Drilling Co. SIZE MOLE 2 1/2" DRILL PIPE 1 1/2" x 11.66'
 REMARKS: SIZE PUMP LINERS 1 1/2" LENGTH STROKE 14'

DATE 8-18-98

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3150	10:55	3	
40	11:00	2	
43	11:05	3	
46	11:10	3	
49	11:15	3	
51	11:20	2	
52	11:25	1	
53	11:30	2	
54	11:35	2	
55	11:40	2	
56	11:45	2	
57	11:50	2	
58	11:55	2	
59	12:00	2	
60	12:05	2	
61	12:10	2	
62	12:15	2	
63	12:20	2	
64	12:25	2	
65	12:30	2	
66	12:35	2	
67	12:40	2	
68	12:45	2	
69	12:50	2	
70	12:55	2	
71	1:00	2	
72	1:05	2	
73	1:10	2	
74	1:15	2	
75	1:20	2	
76	1:25	2	
77	1:30	2	
78	1:35	2	
79	1:40	2	
80	1:45	2	
81	1:50	2	
82	1:55	2	
83	2:00	2	
84	2:05	2	
85	2:10	2	
86	2:15	2	
87	2:20	2	
88	2:25	2	
89	2:30	2	
90	2:35	2	
91	2:40	2	
92	2:45	2	
93	2:50	2	
94	2:55	2	
95	3:00	2	
96	3:05	2	
97	3:10	2	
98	3:15	2	
99	3:20	2	
100	3:25	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3150	10:55	3	
40	11:00	2	
43	11:05	3	
46	11:10	3	
49	11:15	3	
51	11:20	2	
52	11:25	1	
53	11:30	2	
54	11:35	2	
55	11:40	2	
56	11:45	2	
57	11:50	2	
58	11:55	2	
59	12:00	2	
60	12:05	2	
61	12:10	2	
62	12:15	2	
63	12:20	2	
64	12:25	2	
65	12:30	2	
66	12:35	2	
67	12:40	2	
68	12:45	2	
69	12:50	2	
70	12:55	2	
71	1:00	2	
72	1:05	2	
73	1:10	2	
74	1:15	2	
75	1:20	2	
76	1:25	2	
77	1:30	2	
78	1:35	2	
79	1:40	2	
80	1:45	2	
81	1:50	2	
82	1:55	2	
83	2:00	2	
84	2:05	2	
85	2:10	2	
86	2:15	2	
87	2:20	2	
88	2:25	2	
89	2:30	2	
90	2:35	2	
91	2:40	2	
92	2:45	2	
93	2:50	2	
94	2:55	2	
95	3:00	2	
96	3:05	2	
97	3:10	2	
98	3:15	2	
99	3:20	2	
100	3:25	2	

DATE 8-18-98

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3250	10:55	4	
40	11:00	4	
43	11:05	4	
46	11:10	4	
49	11:15	4	
51	11:20	4	
52	11:25	4	
53	11:30	4	
54	11:35	4	
55	11:40	4	
56	11:45	4	
57	11:50	4	
58	11:55	4	
59	12:00	4	
60	12:05	4	
61	12:10	4	
62	12:15	4	
63	12:20	4	
64	12:25	4	
65	12:30	4	
66	12:35	4	
67	12:40	4	
68	12:45	4	
69	12:50	4	
70	12:55	4	
71	1:00	4	
72	1:05	4	
73	1:10	4	
74	1:15	4	
75	1:20	4	
76	1:25	4	
77	1:30	4	
78	1:35	4	
79	1:40	4	
80	1:45	4	
81	1:50	4	
82	1:55	4	
83	2:00	4	
84	2:05	4	
85	2:10	4	
86	2:15	4	
87	2:20	4	
88	2:25	4	
89	2:30	4	
90	2:35	4	
91	2:40	4	
92	2:45	4	
93	2:50	4	
94	2:55	4	
95	3:00	4	
96	3:05	4	
97	3:10	4	
98	3:15	4	
99	3:20	4	
100	3:25	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3250	10:55	5	
40	11:00	5	
43	11:05	5	
46	11:10	5	
49	11:15	5	
51	11:20	5	
52	11:25	5	
53	11:30	5	
54	11:35	5	
55	11:40	5	
56	11:45	5	
57	11:50	5	
58	11:55	5	
59	12:00	5	
60	12:05	5	
61	12:10	5	
62	12:15	5	
63	12:20	5	
64	12:25	5	
65	12:30	5	
66	12:35	5	
67	12:40	5	
68	12:45	5	
69	12:50	5	
70	12:55	5	
71	1:00	5	
72	1:05	5	
73	1:10	5	
74	1:15	5	
75	1:20	5	
76	1:25	5	
77	1:30	5	
78	1:35	5	
79	1:40	5	
80	1:45	5	
81	1:50	5	
82	1:55	5	
83	2:00	5	
84	2:05	5	
85	2:10	5	
86	2:15	5	
87	2:20	5	
88	2:25	5	
89	2:30	5	
90	2:35	5	
91	2:40	5	
92	2:45	5	
93	2:50	5	
94	2:55	5	
95	3:00	5	
96	3:05	5	
97	3:10	5	
98	3:15	5	
99	3:20	5	
100	3:25	5	

DATE 8-19-98

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3350	10:55	1	
40	11:00	1	
43	11:05	1	
46	11:10	1	
49	11:15	1	
51	11:20	1	
52	11:25	1	
53	11:30	1	
54	11:35	1	
55	11:40	1	
56	11:45	1	
57	11:50	1	
58	11:55	1	
59	12:00	1	
60	12:05	1	
61	12:10	1	
62	12:15	1	
63	12:20	1	
64	12:25	1	
65	12:30	1	
66	12:35	1	
67	12:40	1	
68	12:45	1	
69	12:50	1	
70	12:55	1	
71	1:00	1	
72	1:05	1	
73	1:10	1	
74	1:15	1	
75	1:20	1	
76	1:25	1	
77	1:30	1	
78	1:35	1	
79	1:40	1	
80	1:45	1	
81	1:50	1	
82	1:55	1	
83	2:00	1	
84	2:05	1	
85	2:10	1	
86	2:15	1	
87	2:20	1	
88	2:25	1	
89	2:30	1	
90	2:35	1	
91	2:40	1	
92	2:45	1	
93	2:50	1	
94	2:55	1	
95	3:00	1	
96	3:05	1	
97	3:10	1	
98	3:15	1	
99	3:20	1	
100	3:25	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3350	10:55	1	
40	11:00	1	
43	11:05	1	
46	11:10	1	
49	11:15	1	
51	11:20	1	
52	11:25	1	
53	11:30	1	
54	11:35	1	
55	11:40	1	
56	11:45	1	
57	11:50	1	
58	11:55	1	
59	12:00	1	
60	12:05	1	
61	12:10	1	
62	12:15	1	
63	12:20	1	
64	12:25	1	
65	12:30	1	
66	12:35	1	
67	12:40	1	
68	12:45	1	
69	12:50	1	
70	12:55	1	
71	1:00	1	
72	1:05	1	
73	1:10	1	
74	1:15	1	
75	1:20	1	
76	1:25	1	
77	1:30	1	
78	1:35	1	
79	1:40	1	
80	1:45	1	
81	1:50	1	
82	1:55	1	
83	2:00	1	
84	2:05	1	
85	2:10	1	
86	2:15	1	
87	2:20	1	
88	2:25	1	
89	2:30	1	
90	2:35	1	
91	2:40	1	
92	2:45	1	
93	2:50	1	
94	2:55	1	
95	3:00	1	
96	3:05	1	
97	3:10	1	
98	3:15	1	
99	3:20	1	
100	3:25	1	

DATE 8-19-98

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3450	10:55	2	
40	11:00	2	
43	11:05	2	
46	11:10	2	
49	11:15	2	
51	11:20	2	
52	11:25	2	
53	11:30	2	
54	11:35	2	
55	11:40	2	
56	11:45	2	
57	11:50	2	
58	11:55	2	
59	12:00	2	
60	12:05	2	
61	12:10	2	
62	12:15	2	
63	12:20	2	
64	12:25	2	
65	12:30	2	
66	12:35	2	
67	12:40	2	
68	12:45	2	
69	12:50	2	
70	12:55	2	
71	1:		

15-163-23303-00-00

COMPANY *Hickory* FARM *1224* WELL NO. *17*
 SEC. *TWP. RGE. LOC.* COUNTY *Wichita* STATE *Kans.*
 CONTRACTOR *Wichita Drilling & Ex. Co.* SIZE HOLE *1 1/4"* DRILL PIPE *7/8" X 16.6*
 REMARKS: SIZE PUMP LINERS *1/2" X 1/2"* LENGTH STROKE *14"*

COMPANY *Hickory* FARM *1224* WELL NO. *17*
 SEC. *TWP. RGE. LOC.* COUNTY *Wichita* STATE *Kans.*
 CONTRACTOR *Wichita Drilling & Ex. Co.* SIZE HOLE *1 1/4"* DRILL PIPE *7/8" X 16.6*
 REMARKS: SIZE PUMP LINERS *1/2" X 1/2"* LENGTH STROKE *14"*

DATE *8-19-98*

DEPTH	TIME O'CLOCK	MIN.	REMARKS
35 00	3 30	2	
41	3 3	2	
44	3 3	2	
47	3 3	2	
51	3 3	2	
54	3 3	2	
57	3 3	2	
2:00	01	2	
5:10	04	2	
06	2	2	
09	2	2	
11	2	2	
14	2	2	
17	2	2	
19	2	2	
22 55	2	2	CONTRACTOR'S PUMP PARTS AND IN. PARTS
37	2	2	
40	2	2	
43	2	2	
45	2	2	
48	2	2	
51	2	2	
54	2	2	
58	2	2	
2:01	2	2	
05	2	2	
08	2	2	
11	2	2	
15	2	2	
4	1	2	
11	1	2	
18	1	2	
19	1	2	
21	1	2	
23	1	2	
24	1	2	
25	1	2	
26 40	1	2	
27	1	2	
30	1	2	
32	1	2	
35	1	2	
37	1	2	
38	1	2	
39	1	2	
40 4	1	2	CCW
41	1	2	
42	1	2	
43	1	2	
44	1	2	
45	1	2	
46	1	2	
47	1	2	
48	1	2	
49	1	2	
50	1	2	
51	1	2	
52	1	2	
53	1	2	
54	1	2	
55	1	2	
56	1	2	
57	1	2	
58	1	2	
59	1	2	
60	1	2	
61	1	2	
62	1	2	
63	1	2	
64	1	2	
65	1	2	
66	1	2	
67	1	2	
68	1	2	
69	1	2	
70	1	2	
71	1	2	
72	1	2	
73	1	2	
74	1	2	
75	1	2	
76	1	2	
77	1	2	
78	1	2	
79	1	2	
80	1	2	
81	1	2	
82	1	2	
83	1	2	
84	1	2	
85	1	2	
86	1	2	
87	1	2	
88	1	2	
89	1	2	
90	1	2	
91	1	2	
92	1	2	
93	1	2	
94	1	2	
95	1	2	
96	1	2	
97	1	2	
98	1	2	
99	1	2	
100	1	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
35 50	4 20	2	
36	4 1	2	
37	4 1	2	
38	4 1	2	
39	4 1	2	
40	4 1	2	
41	4 1	2	
42	4 1	2	
43	4 1	2	
44	4 1	2	
45	4 1	2	
46	4 1	2	
47	4 1	2	
48	4 1	2	
49	4 1	2	
50	4 1	2	
51	4 1	2	
52	4 1	2	
53	4 1	2	
54	4 1	2	
55	4 1	2	
56	4 1	2	
57	4 1	2	
58	4 1	2	
59	4 1	2	
60	4 1	2	
61	4 1	2	
62	4 1	2	
63	4 1	2	
64	4 1	2	
65	4 1	2	
66	4 1	2	
67	4 1	2	
68	4 1	2	
69	4 1	2	
70	4 1	2	
71	4 1	2	
72	4 1	2	
73	4 1	2	
74	4 1	2	
75	4 1	2	
76	4 1	2	
77	4 1	2	
78	4 1	2	
79	4 1	2	
80	4 1	2	
81	4 1	2	
82	4 1	2	
83	4 1	2	
84	4 1	2	
85	4 1	2	
86	4 1	2	
87	4 1	2	
88	4 1	2	
89	4 1	2	
90	4 1	2	
91	4 1	2	
92	4 1	2	
93	4 1	2	
94	4 1	2	
95	4 1	2	
96	4 1	2	
97	4 1	2	
98	4 1	2	
99	4 1	2	
100	4 1	2	

DATE *8-19-98*

DEPTH	TIME O'CLOCK	MIN.	REMARKS
36 00	11 31	1	
37	11 31	1	
38	11 31	1	
39	11 31	1	
40	11 31	1	
41	11 31	1	
42	11 31	1	
43	11 31	1	
44	11 31	1	
45	11 31	1	
46	11 31	1	
47	11 31	1	
48	11 31	1	
49	11 31	1	
50	11 31	1	
51	11 31	1	
52	11 31	1	
53	11 31	1	
54	11 31	1	
55	11 31	1	
56	11 31	1	
57	11 31	1	
58	11 31	1	
59	11 31	1	
60	11 31	1	
61	11 31	1	
62	11 31	1	
63	11 31	1	
64	11 31	1	
65	11 31	1	
66	11 31	1	
67	11 31	1	
68	11 31	1	
69	11 31	1	
70	11 31	1	
71	11 31	1	
72	11 31	1	
73	11 31	1	
74	11 31	1	
75	11 31	1	
76	11 31	1	
77	11 31	1	
78	11 31	1	
79	11 31	1	
80	11 31	1	
81	11 31	1	
82	11 31	1	
83	11 31	1	
84	11 31	1	
85	11 31	1	
86	11 31	1	
87	11 31	1	
88	11 31	1	
89	11 31	1	
90	11 31	1	
91	11 31	1	
92	11 31	1	
93	11 31	1	
94	11 31	1	
95	11 31	1	
96	11 31	1	
97	11 31	1	
98	11 31	1	
99	11 31	1	
100	11 31	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
36 50	12 5	5	
37	12 5	5	
38	12 5	5	
39	12 5	5	
40	12 5	5	
41	12 5	5	
42	12 5	5	
43	12 5	5	
44	12 5	5	
45	12 5	5	
46	12 5	5	
47	12 5	5	
48	12 5	5	
49	12 5	5	
50	12 5	5	
51	12 5	5	
52	12 5	5	
53	12 5	5	
54	12 5	5	
55	12 5	5	
56	12 5	5	
57	12 5	5	
58	12 5	5	
59	12 5	5	
60	12 5	5	
61	12 5	5	
62	12 5	5	
63	12 5	5	
64	12 5	5	
65	12 5	5	
66	12 5	5	
67	12 5	5	
68	12 5	5	
69	12 5	5	
70	12 5	5	
71	12 5	5	
72	12 5	5	
73	12 5	5	
74	12 5	5	
75	12 5	5	
76	12 5	5	
77	12 5	5	
78	12 5	5	
79	12 5	5	
80	12 5	5	
81	12 5	5	
82	12 5	5	
83	12 5	5	
84	12 5	5	
85	12 5	5	
86	12 5	5	
87	12 5	5	
88	12 5	5	
89	12 5	5	
90	12 5	5	
91	12 5	5	
92	12 5	5	
93	12 5	5	
94	12 5	5	
95	12 5	5	
96	12 5	5	
97	12 5	5	
98	12 5	5	
99	12 5	5	
100	12 5	5	

DATE *8-19-98*

DEPTH	TIME O'CLOCK	MIN.	REMARKS
37 00	1 00	4	
38	1 00	4	CONTD.
39	1 00	4	
40	1 00	4	
41	1 00	4	
42	1 00	4	
43	1 00	4	
44	1 00	4	
45	1 00	4	
46	1 00	4	
47	1 00	4	
48	1 00	4	
49	1 00	4	
50	1 00	4	
51	1 00	4	
52	1 00	4	
53	1 00	4	
54	1 00	4	
55	1 00	4	
56	1 00	4	
57	1 00	4	
58	1 00	4	
59	1 00	4	
60	1 00	4	
61	1 00	4	
62	1 00	4	
63	1 00	4	
64	1 00	4	
65	1 00	4	
66	1 00	4	
67	1 00	4	
68	1 00	4	
69	1 00	4	
70	1 00	4	
71	1 00	4	
72	1 00	4	
73	1 00	4	
74	1 00	4	
75	1 00	4	
76	1 00	4	
77	1 00	4	
78	1 00	4	
79	1 00	4	
80	1 00	4	
81	1 00	4	
82	1 00	4	
83	1 00	4	
84	1 00	4	
85	1 00	4	
86	1 00	4	
87	1 00	4	
88	1 00	4	
89	1 00	4	
90	1 00	4	
91	1 00	4	
92	1 00	4	
93	1 00	4	
94	1 00	4	
95	1 00	4	
96	1 00	4	
97	1 00	4	
98	1 00	4	
99	1 00	4	
100	1 00	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
37 50	1 20	4	
38	1 20	4	
39	1 20	4	
40	1 20	4	
41	1 20	4	
42	1 20	4	
43	1 20	4	