

ORIGINAL

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

API NO. 15- 101-217170000

Operator: License # 31283

Name: Rheem Resources, Inc.

Address 100 S. Main, Suite 505

City/State/Zip Wichita, KS 67202

Purchaser: Texaco Trading & Transportation

Operator Contact Person: James L. Rheem

Phone (316) 262-5099

Contractor: Name: Murfin Drilling Co.

License: 30606

Wellsite Geologist: Roger L. Martin

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:

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. _____

3-29-96 04-08-96 04-09-96
Spud Date Date Reached TD Completion Date

County Lane

SE - SW - NW - Sec. 26 Twp. 19 Rge. 28 X W

3146 Feet from SW (circle one) Line of Section

4290 Feet from EW (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SW, NW or SW (circle one)

Lease Name #1 Gary Shapland Well # _____

Field Name W.C.

Producing Formation Mississippian

Elevation: Ground 2757 KB 2768

Total Depth 4670 PBTB _____

Amount of Surface Pipe Set and Cemented at 266' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2074 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 2 NOT MET PER DISTRICT 1
(Data must be collected from the Reserve Pit) *JH 9-22-97*

Chloride content 6000 ppm Fluid volume 300 bbls

Dewatering method used allow to dry-backfill

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 *James L. Rheem*

Title *President* Date *8.6.96*

Subscribed and sworn to before me this *8th* day of *August*, 19 *96*.

Notary Public *Linda A. Kreuzburg*

Date Commission Expires *10-5-97*

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)

RECEIVED
KANSAS CORPORATION COMMISSION

LINDA A. KREUZBURG
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. *10-5-97*

AUG 09 1996
08-09-1996
CONSERVATION DIVISION
WICHITA, KS

Operator Name: Rheem Resources, Inc. Lease Name: #1 Gary Shapland Well # 1
 Sec. 26 Twp. 19 Rge. 28 East West

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: DIL-CND

LOG	Name	Formation (Top), Depth and Datum	Sample
<input checked="" type="checkbox"/>	Anh.	2097	+671
<input checked="" type="checkbox"/>	Heebner	3975	-1207
<input checked="" type="checkbox"/>	Lansing	4017	-1249
<input checked="" type="checkbox"/>	Stark	4297	-1529
<input checked="" type="checkbox"/>	Ft. Scott	4557	-1789
<input checked="" type="checkbox"/>	Mississippi	4656	-1888-sample top

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole	Size Casing	Weight	Setting	Type of Cement	# Sacks	Type and Percent Additives
production	7 7/8	4 1/2	10.5	4668'	standard	200	ea/2 10% salt
surface	12 1/4	8 5/8	20#	266'	common	175	60/40, poz. 3% cc, 2% gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

Depth	Type of Cement	#Sacks Used	Type and Percent Additives

PERFORMANCE RECORD - Bridge Plugs Set/Type
 Specify Footage of Each Interval Performed
 Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)
 Depth

Shots Per Foot	Footage	Material
4	250 gallon 15% NE	4342-44
4	natural	4344-48

TUBING RECORD

Size	Set At	Packer At	Liner Run
			Yes <input type="checkbox"/> No <input type="checkbox"/>

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: _____

ORIGINAL

INVOICE



HALLIBURTON

ORIGINAL

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE NO.	DATE
915430	04/09/1996

WELL/LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
SHAPLAND, GARY 1	LANE	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
HAYS	MURFIN DRILLING #21	CEMENT PRODUCTION CASING	04/09/1996		
FACT NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
001232	TERRY RICHARDSON			COMPANY TRUCK	06426

DIRECT CORRESPONDENCE TO:

RHEEM RESOURCES, INC.
100 SOUTH MAIN, #505
WICHITA, KS 67202

P O BOX 428
HAYS KS 67601
913-625-3431

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	190	MI	2.85	541.50
		1	UNT		
001-016	CEMENTING CASING	4667	FT	1,765.00	1,765.00
		1	UNT		
030-016	CEMENTING PLUG 5W ALUM TOP	4.5	IN	45.00	45.00
		1	EA		
018-315	MUD FLUSH	500	GAL	.65	325.00
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA	95.00	95.00
825.201					
24A	INSERT FLOAT VALVE - 4 1/2" 8RD	1	EA	91.00	91.00
815.19101					
27	FILL-UP UNIT 4 1/2"-5"	1	EA	47.00	47.00
815.19111					
50	CENTRALIZR-TURBO-4-1/2 X 7-7/8	6	EA	60.00	360.00
806.60104					
40	CENTRALIZER 4-1/2 X 7-7/8	2	EA	50.00	100.00
806.60004					
320	BASKET-CMT-4 1/2 CSG X 18"OD-	1	EA	104.00	104.00
806.71415					
504-308	CEMENT - STANDARD	225	SK	9.57	2,153.25
508-127	CAL SEAL 60	11	SK	25.90	284.90
509-968	SALT	1100	LB	.15	165.00
507-775	HALAD-322	108	LB	7.00	756.00
507-970	D-AIR 1, POWDER	56	LB	3.25	182.00
500-207	BULK SERVICE CHARGE	277	CFT	1.35	373.95
500-306	MILEAGE CMTG MAT DEL OR RETURN	1166.268	TMI	.95	1,107.95

RECEIVED
KANSAS CORPORATION COMMISSION

INVOICE SUBTOTAL

8,496.55

DISCOUNT-(BID)
INVOICE BID AMOUNT

AUG 09 1996

2,718.88-
5,777.67

CONSERVATION DIVISION
WICHITA, KS

***** 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 on 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 agrees to pay attorney fees of 20% of the unpaid account plus all collection and court costs.



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MEM CONTINUED
11/15/96

BILLED ON TICKET NO. 915425

WELL DATA

FIELD _____ SEC 26 TWP. 19S RNG. 13W COUNTY LANE STATE KS

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	V	107/96	4 1/2	K8	7266	
LINER						
TUBING						
OPEN HOLE			7 7/8	4555	4557	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>4-9</u>	DATE <u>4-9</u>	DATE <u>4-9</u>	DATE <u>4-9</u>
TIME <u>0300</u>	TIME <u>0600</u>	TIME <u>0945</u>	TIME <u>1300</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSERT FLOAT</u>	<u>1</u>	<u>HAWKS</u>
FLOAT SHOE <u>AUTO FILL UP</u>	<u>1</u>	<u>"</u>
GUIDE SHOE	<u>1</u>	<u>"</u>
CENTRALIZERS <u>(6-9-4) FM-6</u>	<u>10</u>	<u>"</u>
BOTTOM PLUG	<u>1</u>	<u>"</u>
TOP PLUG <u>SW</u>	<u>1</u>	<u>"</u>
HEAD <u>DC</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER <u>BASKET</u>	<u>1</u>	<u>"</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. °API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ IN.
 NE AGENT TYPE _____ GAL. _____ IN.
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN.
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.
 BREAKER TYPE _____ GAL.-LB. _____ IN.
 BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN.
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>W. WILSON</u>	<u>B9377</u>	<u>HAYS, KS</u>
<u>D. ASH</u>	<u>F1609</u>	<u>"</u>
<u>E. DORSON</u>	<u>H1659</u>	<u>"</u>
	<u>PJ</u>	
	<u>40091</u>	
	<u>PTAR</u>	
	<u>53292</u>	
	<u>BULK</u>	
	<u>3850</u>	

DEPARTMENT CEMENT
 DESCRIPTION OF JOB 4 1/2" LONGSTRETCH
TOTAL DISPL - 4691'
2 CENTRALIZERS - PORT COLLAR CUST. PROVIDED
PORT COLLAR @ 2085' - TOP ST # 74
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X TERRY ROBERTSON

HALLIBURTON OPERATOR Wayne W. L. COPIES REQUESTED 1

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>225</u>	<u>EA-2</u>		<u>B</u>	<u>5% CASUAL, 1 1/2% HAMB-302, 10% SALT</u> <u>5# GUMMITE 2/14, 14# D-200 P/W</u>	<u>1.37</u>	<u>15.19</u>
					<u>15% GUMMITE 2/14 - 10% SALT MAXIMUM</u>		

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 ORDERED _____ AVAILABLE _____ USED _____
 TREATING _____ DISPL. _____ OVERALL _____
 FEET 12.19 REASON INSERT

SUMMARY

VOLUMES

PRESLUSH BBL.-GAL. 12 TYPE PRELUSH
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 74.3
 CEMENT SLURRY BBL.-GAL. 54.9
 TOTAL VOLUME: BBL.-GAL. _____

RECEIVED

KANSAS CORPORATION COMMERCIAL

AUG 09 1996

REMARKS

SEE CHART & JOB LOG

THANK YOU

CONSERVATION DIVISION
WICHITA, KS

FIELD OFFICE

CUSTOMER
LEASE
WELL NO.
JOB TYPE
DATE



JOB LOG HAL-2013-C

CUSTOMER: RHEEM RESOURCES WELL NO: 1 LEASE: SHARON GARY JOB TYPE: 4 1/2" LONGSTRENG TICKET NO: 915930

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL, GAL), PUMPS, PRESSURE (PSI) TUBING, CASING, DESCRIPTION OF OPERATION AND MATERIALS. Includes entries for 'CALLED OUT ORIGINAL', 'PUMP MUD FLUSH', 'PLUG BATHING & MUDHOLE AFTER JOB', 'MAX CEMENT', 'WASH OUT PUMP & LINES', 'RELEASE PLUG', 'DISPLACE PLUG', 'PLUG DOWN', 'RELEASE PST', 'FLOAT HELD', 'WASH-UP', 'RACK-UP', 'JOB COMPLETE'.

RECEIVED KANSAS CORPORATION COMMISSION

THANK YOU WAYNE DAVE CRAIG

AUG 09 1996

CONSERVATION DIVISION WICHITA, KS

PUMP TIME - 1 HR

ALLIED CEMENTING CO., INC.

5933

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:

Ass City

DATE <u>3-30-96</u>	SEC. <u>26</u>	TWP. <u>19</u>	RANGE <u>28</u>	CALLED OUT <u>8:00PM</u>	ON LOCATION <u>11:15PM</u>	JOB START <u>11:55PM</u>	JOB FINISH <u>12:15 AM</u>
LEASE <u>Shapland</u>	WELL# <u>1</u>	LOCATION <u>Deighton 65-37E-5220to</u>		COUNTY <u>Conce</u>	STATE <u>KS.</u>		

OLD OR NEW (Circle one)

CONTRACTOR Murfin

TYPE OF JOB Surface

HOLE SIZE 12 1/4" T.D. 267'

CASING SIZE 8 3/4" DEPTH 266'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

OWNER Rheem

CEMENT

AMOUNT ORDERED 175 60/40 223

COMMON	<u>105</u>	@	<u>6.10</u>	<u>640.50</u>
POZMIX	<u>70</u>	@	<u>3.15</u>	<u>220.50</u>
GEL	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	@	<u>28.00</u>	<u>140.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>175</u>	@	<u>1.05</u>	<u>183.75</u>
MILEAGE	<u>41</u>			<u>287.00</u>
TOTAL				<u>\$1500.25</u>

EQUIPMENT

PUMP TRUCK # 224 CEMENTER Mike

BULK TRUCK # 116 HELPER Bob

BULK TRUCK # _____ DRIVER Mike

BULK TRUCK # _____ DRIVER _____

REMARKS:

Ran 266' of 8 3/4" 20# casing. Booke
circulation with rig. Cemented with 175 60/40 223.
Displaced with 165' BBLs H₂O
Cement did circulate.
Thank you - Allied Cementing
Mike & Bob.

SERVICE

DEPTH OF JOB 266'

PUMP TRUCK CHARGE 445.00

EXTRA FOOTAGE @ _____

MILEAGE 41 @ 2.35 96.35

PLUG 1 - 8 3/4" wooden @ 95.00 45.00

TOTAL 586.35

CHARGE TO: Murfin Drilling Co Inc

STREET 250 N. Water Suite 300

CITY Wichita STATE Ks ZIP 67207

FLOAT EQUIPMENT

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KANSAS CORPORATION COMMISSION

AUG 09 1996

CONSERVATION DIVISION
WICHITA, KS

TOTAL _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Doug Hafenstein

TAX - 0 -

TOTAL CHARGE \$ 2086.60

DISCOUNT \$ 417.32 IF PAID IN 30 DAYS

Net \$ 1669.28

KCC OIL/GAS REGULATORY OFFICE

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KANSAS CORP COMM
1997 SEP 30 P 12:08

DATE 8/16/96

- New Situation
- Response to Request
- Follow-up

OPERATOR Rheem Resources, Inc. # 31283

NAME 100 S. Main, Ste. 505

LOCATION SE SW NW, SEC 26, T 19 S, R 28 W XX

& ADDRESS Wichita, KS 67202-3738

LEASE Gary Shapland Well # 1

PHONE NO. _____
OPER. _____ OTHER _____

COUNTY Lane API#15-101-21,717

REASON FOR INVESTIGATION: Alternate II cementing

PROBLEM: _____

PERSON(S) CONTACTED: Terry Richardson, agent for operator

FINDINGS: Port collar at 2074', 4½" casing. PB at 4000'. Allied pumped 12 sx gel, 385

sx 60/40 Pozmix 6% ¼# floreal, ¼# hulls, and 500 lbs. hulls. Wouldn't circulate.

Pump at 1200#. Closed port collar. Circulated clean. Pressured up to 1500# and held.

Allied tied on to 8 5/8" X 4½" and pumped 115 sx cement. Shut in at 300#.

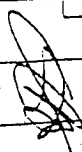
Will run electric temperature log on 8/17/96.

Perm 1100'
PK 650-980'

*copy of field report
you already have*

ACTION/RECOMMENDATIONS: _____

Retain 1 copy Joint District Office
Send 1 copy Conservation Division

By Kevin Strube 

8/16/96

LEASE INSPECTION

COMPLAINT

FIELD REPORT X

15-101-21717

DST # 1	4254 to 4300'
	Lans-KC: J-180' zone.
Times:	30-45-45-60 min.
IF:	Fr to Strong blow-off btm of bucket in 7 1/2 min
ISI:	No blow back
FF:	Weak blow - slowly building to Gd blow-off btm of bucket in 15 min.
FSI:	No blow back
Rec:	5' free Oil
Max. H ₂ S detected	185' muddy wtr (trc oil) (70% wtr, 30% mud)
60 ppm	995' Sulfur Water
Average H ₂ S: <10 ppm	1185' total fluid (496' in drill collars)
Bbl Rec:	0.07 bbl oil
	11.37 bbl wtr
	0.79 bbl mud
	12.23 bbl total fluid
Cl of DST	wtr: 20,000 ppm
Cl of Mud system:	4,000 ppm
R _w of DST wtr:	0.35 Ω @ 70°F
	by Trilobite Tester
Corrected R _w :	0.19 Ω @ 135°F
ELI R _w of DST wtr:	0.45 Ω @ 65°F
Corrected R _w :	0.228 Ω @ 135°F
	<u>Electronic recorder</u>
ISIP:	851
IFP:	37-349
FSIP:	847
FFP:	358-543
IHP:	2058
Temp:	135°F
FHP:	2028
	<u>Mechanical recorder</u>
ISIP:	849
IFP:	93-322
FSIP:	849
FFP:	384-539
IHP:	2123
FHP:	2093

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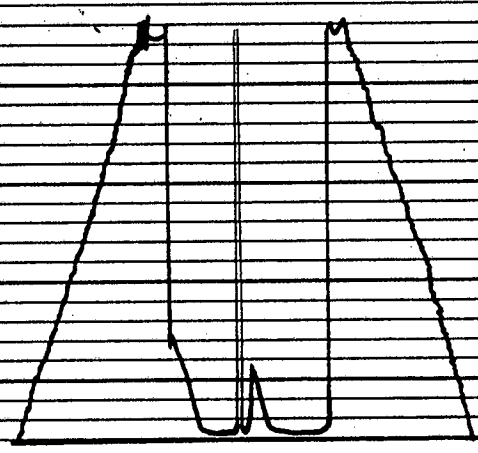
AUG 09 1996

CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

15-101-21717

DST # 2	4303' to 4324'
	Lans. - KC: K-200' zone.
Times:	30-30-30-30 min
I.F.:	Weak surface blow, died in 8 min.
F.F.:	No blow, flushed tool after 5 min - Gd surge - No blow
Rec:	5' drlg mud w/a few oil specks. (in D.C.)
	<u>Electronic recorder</u>
ISIP:	427
IFP:	12-13
FSIP:	564
FFP:	12-16
IHP:	2085
Temp:	118°F
FHP:	2029
	<u>Mechanical recorder</u>
ISIP:	395
IFP:	20-20
FSIP:	539
FFP:	20-20
IHP:	2143
FHP:	2093



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KANSAS CORPORATION COMMISSION

AUG 09 1996

CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

15-101-21717

DST #3 4340' to 4355'
Lans.-K.C. L-220' zone

Times: 30-45-45-60 min

IF: Strong blow-off btm
of bucket in 3 1/2 min.

IS1: Strong blow back-off
btm of bucket in 5 min.

FF: Strong blow-off btm of
bucket in 6 min.

FS1: No blow back

Rec: 992' Gas in pipe

1183' clean gassy Oil
36 gravity

186' Hvy mud cut Oil
(52% oil, 48% mud)

1369' total fluid
(496' in drill collars)

Bbl rec: 14.42 bbls Gassy Oil
0.44 bbl mud

14.86 bbls total fluid

Electronic recorder

ISIP: 617 IFP: 54-326

ESIP: 605 FFP: 333-483

IHP: 2129

FHP: 2052

Temp: 118°F

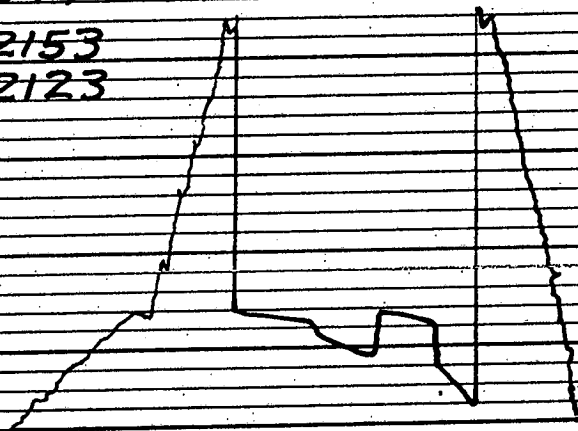
Mechanical recorder

ISIP: 579 IFP: 83-280

ESIP: 579 FFP: 353-457

IHP: 2153

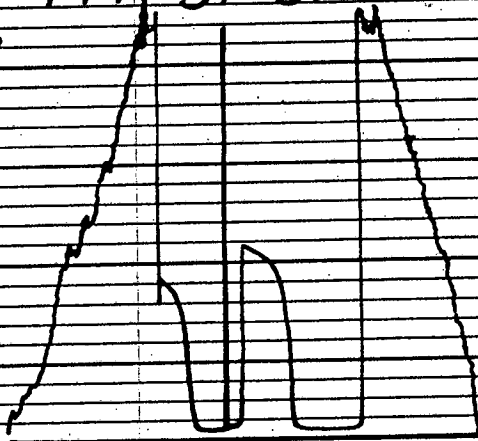
FHP: 2123



ORIGINAL

15-101-21717

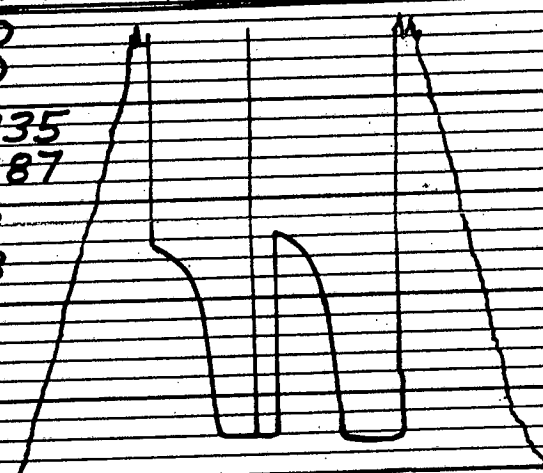
DST # 4	4383' to 4405'
	Pleasanton
Times:	45 - 45 - 30 - 30 min
IF:	Weak blow, 1/8 inch, decreasing to surface blow.
FF:	Weak surface blow, died in 5 min. - flushed tool- Gd surge - weak blow, died in 20 min.
Rec:	10' drlg mud w/ a few oil specks (in D.C.)
	<u>Electronic recorder</u>
ISIP:	1004
IFP:	12-17
FSIP:	849
FFP:	19-23
IHP:	2008
FHP:	1978
	Temp: 123°F
	<u>Mechanical recorder</u>
ISIP:	979
IFP:	31-31
FSIP:	819
FFP:	31-31
IHP:	2173
FHP:	2123



ORIGINAL

15-101-21717

DST #5	4395' to 4635'
	Marmaton & Cherokee.
Times:	45-45-45-45 min
IF:	Weak blow, 1/2 in. decrs to 1/8 in.
F.F:	No blow - flushed tool - Gd surge - Wk blow - died in 30"
Rec:	130' drlg mud (in D.C.) w/ oil spots in tool.
Electronic recorder	
ISIP:	1119
IFP:	20-66
FSIP:	1089
FFP:	57-88
IHP:	2136
Temp:	127°F
FHP:	2128
Mechanical recorder	
ISIP:	1200
FSIP:	1150
IFP:	135-135
FFP:	166-187
IHP:	2303
FHP:	2223



ORIGINAL

15-101-21717

DST #6 Straddle test
Lans-KC: L-220' zone

E-log 4352' to 4366'
measurements LTD: 4667

Rotary 4355' to 4369'
measurements R.T.D: 4670'

Times: 30-45-45-60 min.
IF: Strong blow, off btm of bucket in 2 min.

ISI: No blow back
FF: Strong blow, off btm of bucket in 10 min.

FSI: No blow back
Rec: 68' mud cut w/tr w/
trc of oil
($\leq 1\%$ oil, 60% w, 40% M)

800' wtr in drill pipe
496' wtr in drill collars
1364' total fluid

Bbl rec: 14.40 bbls water
0.39 bbl mud
14.79 bbls total fluid

R_w of DST wtr: 0.21 Ω @ 80°F
Corrected R_w: 0.128 Ω @ 136°F

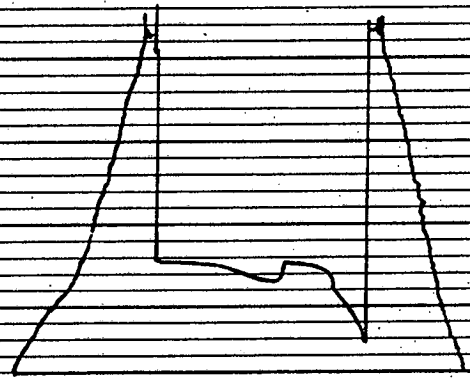
Cl of DST wtr: 28,000 ppm
Cl of mud system: 3,000 ppm

Electronic recorder

ISIP: 662 IFP: 153-503
FSIP: 664 FFP: 512-626
IHP: 2117 Temp: 136°F
EHP: 2101

Mechanical recorder

No field pressures from mechanical recorder



Progr L. Martin