

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

ORIGINAL KCC

JUN 30

API NO. 15- 155-21,197-0006

County Reno

C S/2 S/2 SE Sec. 1 Twp. 26 Rge. 10 E

330 Feet from (S)N (circle one) Line of Section

1320 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 Al Packebush Well # 1-1

Field Name Wildcat

Producing Formation Mississippian

Elevation: Ground 1728 KB 1737

Total Depth 4050' PBDT

Amount of Surface Pipe Set and Cemented at 225 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 cat.

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

Chloride content 10,000 ppm Fluid volume 1000 bbls

Dewatering method used Hauled off

Location of fluid disposal if hauled offsite:

Operator Name C & C Tank Service

Lease Name Roach License No. 30708

SW Quarter Sec. 14 Twp. 23 S Rng. 9 E/W

County Reno Docket No. 22208

Operator: License # 5929

Name: Duke Drilling Co., Inc.

Address P.O. Box 823

City/State/Zip Great Bend, KS 67530

Purchaser: Texaco

Operator Contact Person: Jim Phillips

Phone (316) 267-1331

Contractor: Name: Lobo Drilling Company

License: 5864

Wellsite Geologist: Raul Brito

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD S10W 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.

04-14-92 04-21-92 06-01-92
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.

SALLY R. BYERS
NOTARY PUBLIC
STATE OF KANSAS
MY EXPIRES 12/6/92

Signature: James B. Phillips
Vice-President

RECEIVED
KANSAS CORPORATION COMMISSION
K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Geologist Report Received
Distribution
 SWD/Rep NGPA
 Plug Other (Specify)
KCC
KGS

Subscribed and sworn to before me this 1st day of July 1992
Sally R. Byers
Notary Public
Notary Commission Expires DECEMBER 6, 1992

P1

SIDE TWO

Operator Name Duke Drilling Co., Inc. Lease Name Packebush Well # 1-1

Sec. 1 Twp. 25 Rge. 10 East West
 County Reno

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:

CDL-DI-MSG
 -Bond Log-

Log Formation (Top), Depth and Datum Sample

Name Top Datum
 Miss. 3879 -2143

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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"	20#	225'	60/40poz	170	2% gel 3%cc
Production	7-7/8"	5 1/2"	15.5#	4049'	Surfill	175	5#Gilsonite per sack

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate		Class "A"	170 SX	60/40 poz mix 2% gel 3% cc.
<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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
2 SPF	3885-87		200 gal 7 1/2 FE/HF Acid	3880-3916
	3880-82 (3906-07)		43,000 gals BoraGel G3.5186	
	3902-03 (3910-11)		And 60,900 # 12/20 Sand.	
	(3896-98) (3915-16)			

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 7/8	3777.24	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 06-19-92 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	39	50	160		35

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 3880-3916

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 316-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

No. 3029

ORIGINAL KCC
CONFIDENTIAL

RELEASED

Date	4/11/52	Sec.	1	Twp.	25	Range	10	Called Out	2:30 PM	On Location	4:15 PM	Job Start	5:00 PM	Finish	5:45 PM
Lease	W. K. ...	Well No.	#1	Location	Solim. 4s. 2nd F 4/5			County	WABO	State	KS				
Contractor	Lobo														
Type Job	Surface														
Hole Size	12 1/4"	T.D.	228'												
Csg.	8 7/8"	Depth	228'												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	15'	Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace	11 bbl.												
Perf.															

EQUIPMENT

Pumptrk	No. 151	Cementer	Tom
		Helper	Carry
Pumptrk	No. 152	Cementer	
		Helper	
Bulktrk	No. 10	Driver	Pancy
Bulktrk		Driver	

DEPTH of Job	
Reference:	Discharge
	Sub Total
	Tax
	Total

Remarks: Cement Did Circulate

Owner	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 listed.	
Charge To	Duke	
Street		
City	State	
The above was done to satisfaction and supervision of owner agent or contractor		
Purchase Order No.		
X	CEMENT	
Amount Ordered	170 sq. yds. 39 cc. 29 bbl.	
Consisting of:		
Common		
Poz. Mix		
Gel.		
Chloride		
Quickset		
Sales Tax		
Handling		
Mileage		
Sub Total		
Total		
Floating Equipment		



KCC BILLING COPY

P. 2

P.O. Box 4442 Houston, Tx. 77210
REMIT TO: P.O. Box 287476 Houston, Tx. 77287

JUN 30

RELEASE SERVICE OPERATIONS CONTRACT
TERMS NET 30 DAYS FROM DATE OF CONTRACT

CONFIDENTIAL

DATE JUL 14 1993	SERVICE CONTRACT NO. 057439
NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>	WELL TYPE <input checked="" type="checkbox"/>
WELL NO. 1-1	LEASE NAME & FEDERAL/OFFSHORE LEASE NO. Park South
COUNTY/PARISH Lara	STATE LA
FIELD NAME Delmar 452 1/2 E N/S	CITY CODE 14
WELL OWNER Duke Dole	MTA CODE

CUSTOMER ACCOUNT NO.	DIST NAME Hiland
CUSTOMER Duke Dole	DIST NUMBER FROM 583
ADDRESS	
CITY	STATE
AUTHORIZED BY (Please Print)	ORDER NO.

STAGE NO.	JOB CODE 106	WORKING DEPTH FT	PUMPING EQUIPMENT	QTIME (A OR P)	DATE
TOTAL PREV. GALS.	1 SURFACE <input type="checkbox"/> 2 INTERMEDIATE <input type="checkbox"/> 3 PRODUCTION <input checked="" type="checkbox"/> 4 REMEDIAL <input type="checkbox"/>		TRUCK CALLED	1 30 A	MM/DD/YY 7/19/93
TOTAL MEAS. DEPTH FT	SIZE HOLE 7 7/8	DEPTH 4050	ARRIVED AT JOB	3 45 A	
	SIZE & WT. CASING 5 1/2	DEPTH 4049	START OPERATION	5 15 A	
	SIZE & WT. DRILL PIPE OR TUBING	DEPTH	FINISH OPERATION	9 30 A	42/93
	PACKER DEPTH	FLUID PUMPED	TIME RELEASED		
			MILES FROM STATION TO WELL 106	SALESMAN NUMBER	

MAX. BPM	REVENUE EQUIPMENT (UNIT NUMBERS)	EMPLOYEES ON JOB (EMPLOYEE NUMBER)
	54271 6480	Brian
S/S EMPLOYEE NUMBER		
628498		

BLENDS		CEMENT <input checked="" type="checkbox"/>		FRAC <input type="checkbox"/>		ACID <input type="checkbox"/>		SAND CONTROL <input type="checkbox"/>	
PRICE BOOK REF	PART NO.	U/M	QTY.	PART NO.	U/M	QTY.	PART NO.	U/M	QTY.

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered)
 The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of BJ SERVICES.

PRICE BOOK: _____ SIGNED: Bobby Gots (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	TOTAL EXTENDED
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

OVER

SERVICE REPRESENTATIVE: AM THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)
 CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department



ORIGINAL KCC

SERVICE OPERATIONS CONTRACT CONTINUATION

CONTRACT NO. 057439

DATE OF JOB: 7/19/92 DISTRICT: *Yt Bend* DIST. NO.: 582 AUTHORIZED BY: *[Signature]*
 CUSTOMER: *[Signature]* JUL 15 1993

FROM CONFIDENTIAL

PRICE BOOK	QTY	DESCRIPTION	UNIT PRICE	UNIT	EXTENSION
11010103124	1	Process job	1263 ⁰⁰	E	1263.00
11010910105	21	DTM	247	E	51.87
11041105104	190	Common	5.79	Q	1100.10
11041105104	10	Common	3.06	Q	30.60
1104280120	823	H-10	.23	L	189.29
1104150149	123	A-7	.48	L	59.04
1104201145	208	rod	.15	L	31.20
1104151012	875	D-9 Kut-Steel	.35	L	306.25
1109401101	214.2	hauling (21x10.2)	.79	Q	169.22
11082010101	2339	hauling dumping	1.16	Q	271.32
1104251010	400	mud sweep	1.73	Q	692.00
1104310120	1	Sia K.C. Plug	63.25	E	63.25
1104091010	1	rod	124.00	E	124.00
1104091010	1	insert	244.40	E	244.40
1104109100	5	Cont	46.75	E	233.75
1104091010	21	Basket	140.00	E	2940.00
1104091010	7	drum	16.65	E	116.55
1104091010	1	Threaded	22.80	E	22.80
					5708.74
					4992.00
					1297.29
					3594.30

SERVICE REPRESENTATIVE: _____ THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____

CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)
 CUSTOMER: This is not an invoice. This Service Operations Contract is subject to review and correction by our Accounting Department.



P.O. Box 4442
Houston, Texas 77210

KCC

CEMENTING LOG

STAGE NO.

ORIGINAL JUN 30
CONFIDENTIAL

Date: 4-21-92 District: 12 Ticket No: 257134
 Company: Conoco Phillips Well No: 161
 Lease: Parishland State: LA
 Location: Bayou 4521/2 Field: _____

CEMENT DATA:
 Spacer Type: 400 gal mud pump
 Amt: _____ Sk's Yield _____ ft³/sk Density _____

CASING DATA: FTA Equipped
 Surface Intermediate Production
 Size: 5 1/2 Type _____ Weight: 15.5 Lbs/ft

LEAD Pump Time _____ hrs. Type _____
 Amt: 175 Sk's Yield 1.43 ft³/sk Density 14.8
 Pump Time _____ hrs. Type _____

AMT: _____ Sk's Yield _____ ft³/sk Density _____
 WATER: Lead 6.47 gal/sk Tail X _____ gal/sk Total 27

Casing Depth: Top _____ Bottom _____

Pump Trucks Used: 54271 6480
 Bulk Equip.: 56212 6253

Drill Pipe Size _____ Weight _____ Collars _____
 Open Hole Size _____ TD _____ ft. P.B. to _____ ft.

Float Equip: Manufacturer _____
 Shoe Type: guide Depth _____
 Float Type: Chaperon Depth _____
 Centralizers: Quantity 5 Plug Top _____ Bun _____
 Stage Collars _____
 Special Equip.: Barbed bag lining
 Disp. Fluid Type: W 20 Amt: 956 Bbls. Weight: 8.39
 Mud Type _____ Weight _____

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.238 Lin. ft./Bbl. 4.201
 Open Hole: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

CEMENTER W. Parker

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						Run 98 gal of 5 1/2 in. to 4079
2.5	60/40	20/90				Spaced out with 400 gal mud
						run 175 gal of cement
						5 1/2 D-7 per of Pumped plug to block
						float did hold

ORIGINAL

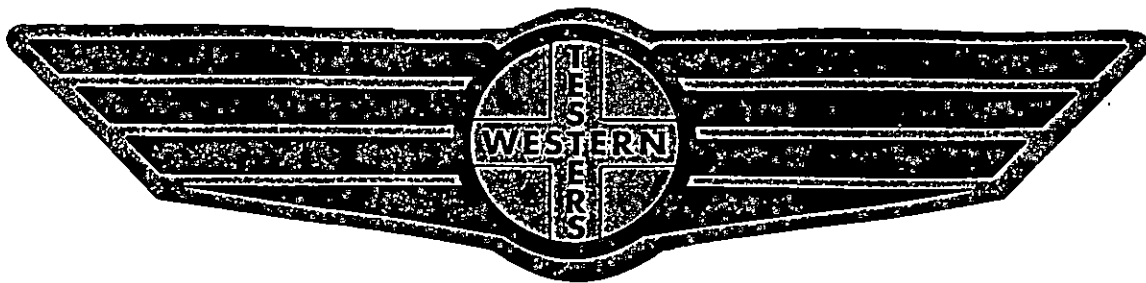
FORMATION TEST REPORT

RELEASED

JUL 15 1993

FROM CONFIDENTIAL

COMPANY DUKE DRILLING CO., INC. LEASE & WELL NO. PACKERUSH #1-1 SEC. 1 TWP. 25S RGE. 10W TEST NO. 1 DATE 4/19/92



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

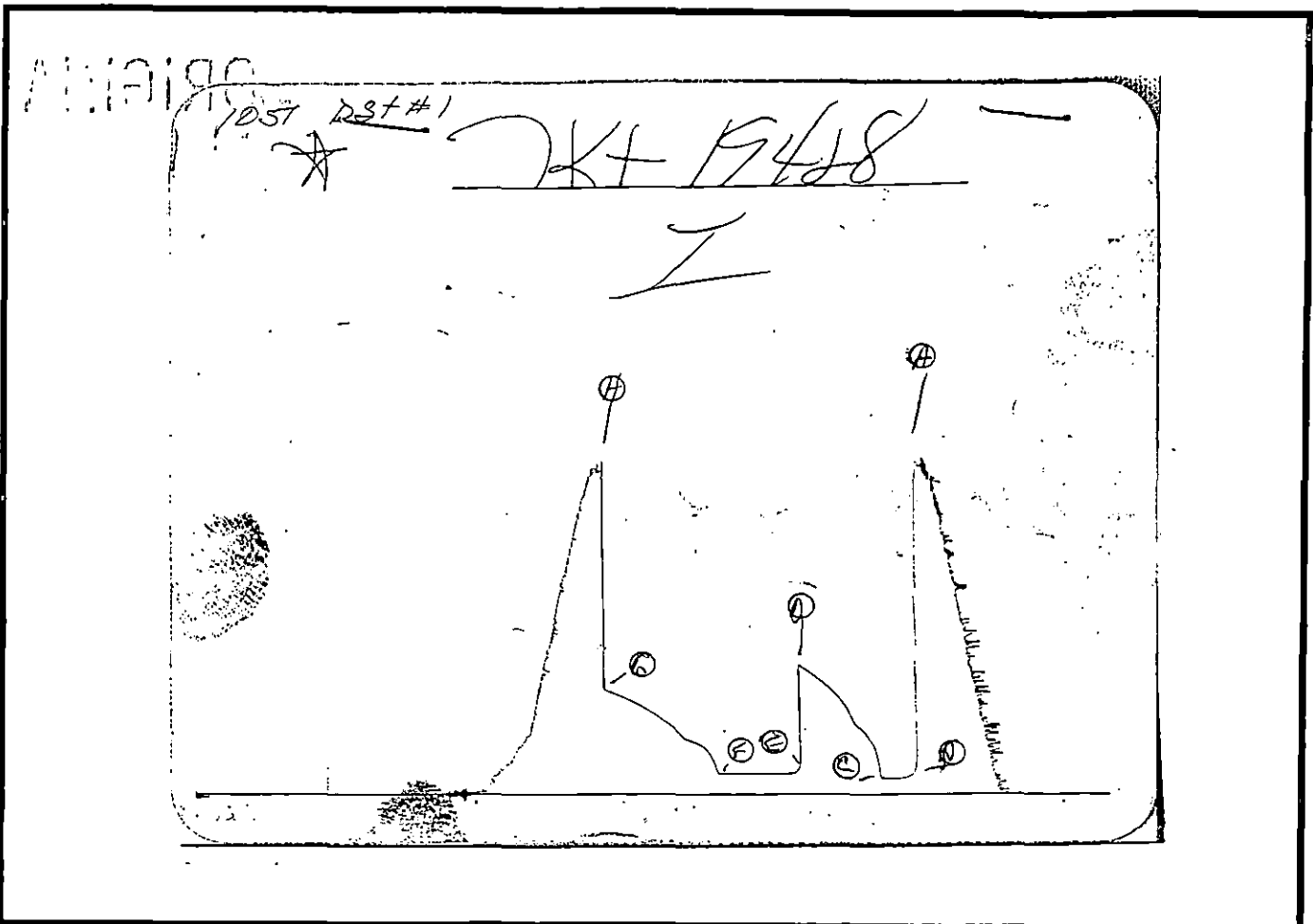
Phone 1 - 800 - 688 - 7021

RECEIVED

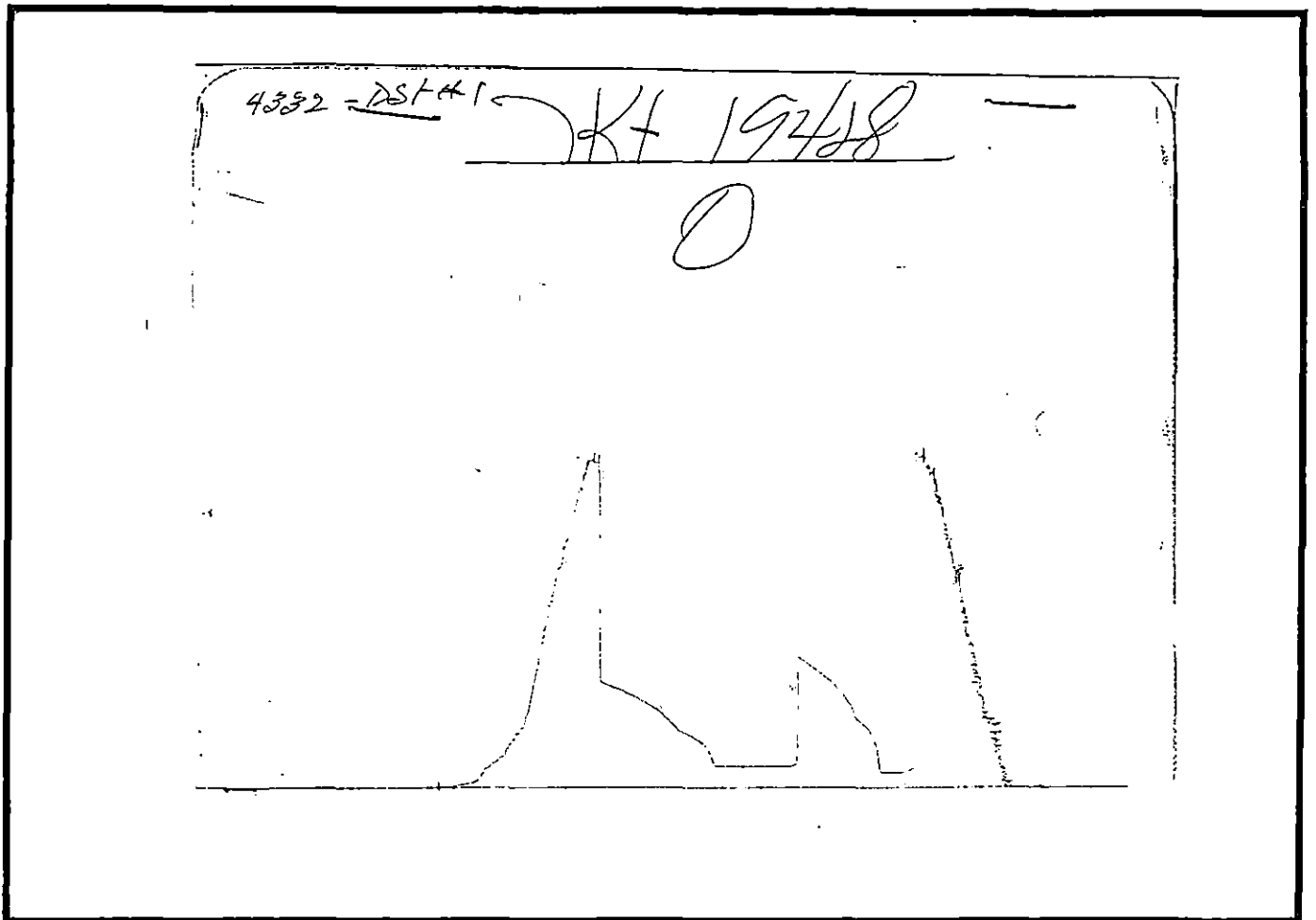
KANSAS CORPORATION COMMISSION

Judy
JUN 7 1992

CONSERVATION DIVISION
WICHITA, KS



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 4/19/92	TICKET : 19428
CUSTOMER : DUKE DRILLING COMPANY INC	LEASE : PACKEBUSH
WELL : 1-1 TEST: 1	GEOLOGIST: BRITO
ELEVATION: 1736 K.B.	FORMATION: MISSISSIPPI
SECTION : 1	TOWNSHIP : 25S
RANGE : 10W COUNTY: RENO	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3880.00 ft	TO: 3896.00 ft	TVD: 3896.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: GAS
DEPTH OF RECORDERS: 3887.0 ft	3890.0 ft	
TEMPERATURE: 118.0		

DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 577.0 ft	I.D.:	2.500 in
DRILL PIPE LENGTH : 3283.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 16.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 3875.0 ft	SIZE:	6.630 in
PACKER DEPTH: 3880.0 ft	SIZE:	6.630 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : LOBO DRILLING CO.	VISCOSITY : 46.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 12.000 cc
WEIGHT : 9.400 ppg	
CHLORIDES : 7000 ppm	SERIAL NUMBER:
JARS-MAKE :	REVERSED OUT?: NO
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW, GAS TO SURFACE
IN 10 MINUTES. SEE FLOW CHART.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
300.0	60.0	30.0	0.0	10.0	HVY GAS CUT MUDDY OIL
0.0	0.0	10.0	50.0	40.0	OIL GRAVITY 35 CORRECTED
3.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 45000 P.P.M.

RATE INFORMATION

OIL VOLUME:	1.0928 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	3.0680 SCF	AVERAGE OIL RATE:	20.3984 STB/D
MUD VOLUME:	0.1821 STB	AVERAGE WATER RATE:	0.2914 STB/D
WATER VOLUME:	0.0182 STB		
TOTAL FLUID :	1.2931 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1974.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	107.00	107.00
INITIAL SHUT-IN	60.00		772.00
FINAL FLOW	60.00	129.00	129.00
FINAL SHUT-IN	90.00		644.00

FINAL HYDROSTATIC PRESSURE: 1942.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1940.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	97.00	97.00
INITIAL SHUT-IN	66.00		772.00
FINAL FLOW	60.00	119.00	119.00
FINAL SHUT-IN	93.00		627.00

FINAL HYDROSTATIC PRESSURE: 1918.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/19/92	TICKET : 19428
CUSTOMER : DUKE DRILLING COMPANY INC	LEASE : PACKEBUSH
WELL : 1-1 TEST: 1	GEOLOGIST: BRITO
ELEVATION: 1736 K.B.	FORMATION: MISSISSIPPI
SECTION : 1	TOWNSHIP : 25S
RANGE : 10W COUNTY: RENO	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	97.00	97.00
5.00	97.00	0.00
10.00	97.00	0.00
15.00	97.00	0.00
20.00	97.00	0.00
25.00	97.00	0.00
30.00	97.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	208.00	208.00	0.00
6.00	283.00	75.00	0.00
9.00	327.00	44.00	0.00
12.00	363.00	36.00	0.00
15.00	391.00	28.00	0.00
18.00	410.00	19.00	0.00
21.00	444.00	34.00	0.00
24.00	493.00	49.00	0.00
27.00	532.00	39.00	0.00
30.00	561.00	29.00	0.00
33.00	588.00	27.00	0.00
36.00	609.00	21.00	0.00
39.00	629.00	20.00	0.00
42.00	649.00	20.00	0.00
45.00	667.00	18.00	0.00
48.00	686.00	19.00	0.00
51.00	700.00	14.00	0.00
54.00	717.00	17.00	0.00
57.00	729.00	12.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	748.00	19.00	0.00
63.00	761.00	13.00	0.00
66.00	772.00	11.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	119.00	119.00
5.00	119.00	0.00
10.00	119.00	0.00
15.00	119.00	0.00
20.00	119.00	0.00
25.00	119.00	0.00
30.00	119.00	0.00
35.00	119.00	0.00
40.00	119.00	0.00
45.00	119.00	0.00
50.00	119.00	0.00
55.00	119.00	0.00
60.00	119.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	143.00	143.00	0.00
6.00	206.00	63.00	0.00
9.00	241.00	35.00	0.00
12.00	273.00	32.00	0.00
15.00	288.00	15.00	0.00
18.00	301.00	13.00	0.00
21.00	314.00	13.00	0.00
24.00	325.00	11.00	0.00
27.00	332.00	7.00	0.00
30.00	347.00	15.00	0.00
33.00	374.00	27.00	0.00
36.00	396.00	22.00	0.00
39.00	416.00	20.00	0.00
42.00	432.00	16.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
45.00	447.00	15.00	0.00
48.00	463.00	16.00	0.00
51.00	476.00	13.00	0.00
54.00	491.00	15.00	0.00
57.00	502.00	11.00	0.00
60.00	515.00	13.00	0.00
63.00	529.00	14.00	0.00
66.00	542.00	13.00	0.00
69.00	551.00	9.00	0.00
72.00	561.00	10.00	0.00
75.00	574.00	13.00	0.00
78.00	585.00	11.00	0.00
81.00	594.00	9.00	0.00
84.00	602.00	8.00	0.00
87.00	609.00	7.00	0.00
90.00	618.00	9.00	0.00
93.00	627.00	9.00	0.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 4/19/92	TICKET : 19428
CUSTOMER : DUKE DRILLING COMPANY INC	LEASE : PACKEBUSH
WELL : 1-1 TEST: 1	GEOLOGIST: BRITO
ELEVATION: 1736 K.B.	FORMATION: MISSISSIPPI
SECTION : 1	TOWNSHIP : 25S
RANGE : 10W COUNTY: RENO	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

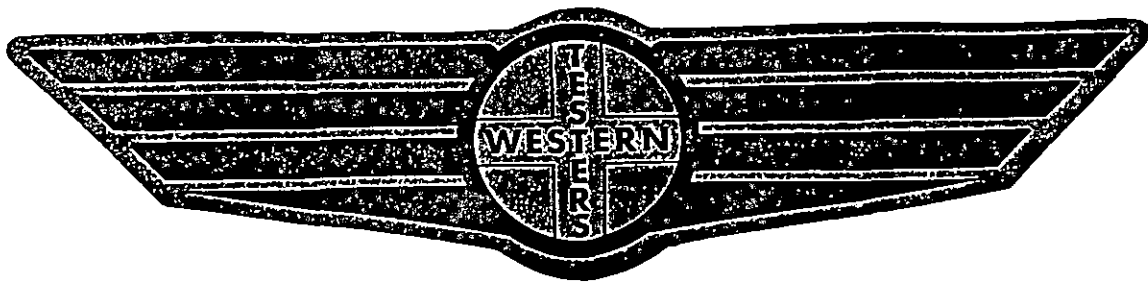
PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN.	MERLA	0.500		
20 MIN.	MERLA	0.500	12"WTR	21900 SCF/D
30 MIN.	MERLA	0.500	10"WTR	19900 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN.	MERLA	0.500	13"WTR	22800 SCF/D
20 MIN.	MERLA	0.500	10"WTR	19900 SCF/D
30 MIN.	MERLA	0.500	8"WTR	17200 SCF/D
40 MIN.	MERLA	0.500	6"WTR	15400 SCF/D
50 MIN.	MERLA	0.500	5"WTR	14100 SCF/D
60 MIN.	MERLA	0.500	5"WTR	14100 SCF/D

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800 - 688 - 7021

RECEIVED
KANSAS CORPORATION COMMISSION

July
JUN 7 1992

CONSERVATION DIVISION
WICHITA, KS

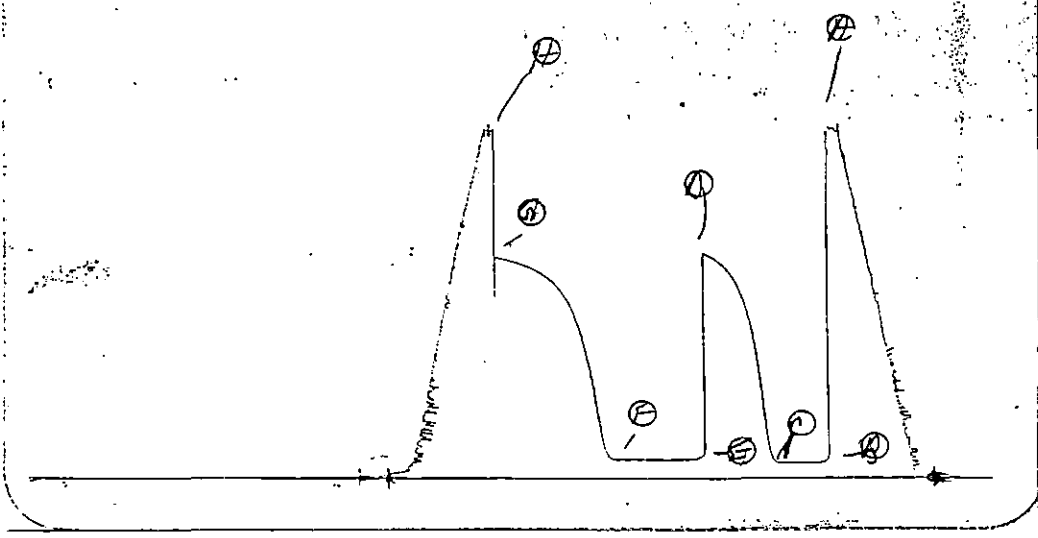
COMPANY DUKE DRILLING CO., INC. LEASE & WELL NO. PACKAGEBUSH #1-1 SEC. 1 TWP. 25S RGE. 10W TEST NO. 2 DATE 4/19/92

7057 DST#2

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JK 1949

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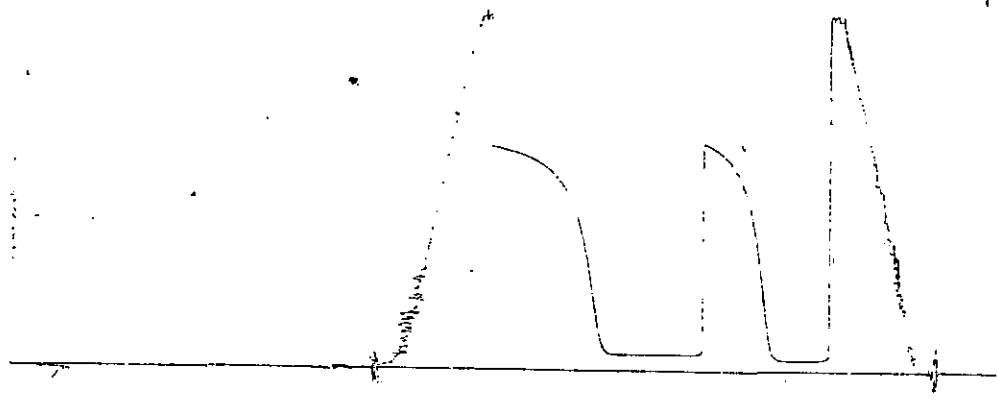


Inside Recorder

4332 DST#2

JK 1949

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Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 4-19-92
CUSTOMER : DUKE DRILLING COMPANY INC
WELL : 1-1 TEST: 2
ELEVATION: 1736 K.B.
SECTION : 1
RANGE : 10W COUNTY: RENO
GAUGE SN#: 1051 RANGE : 4250
TICKET : 19429
LEASE : PACKEBUSH
GEOLOGIST: BRITO
FORMATION: MISSISSIPPI
TOWNSHIP : 25S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3897.00 ft TO: 3936.00 ft TVD: 3936.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3910.0 ft 3913.0 ft
TEMPERATURE: 120.0
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in
WEIGHT PIPE LENGTH : 577.0 ft I.D.: 2.500 in
DRILL PIPE LENGTH : 3300.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 39.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH
PACKER DEPTH: 3892.0 ft SIZE: 6.630 in
PACKER DEPTH: 3897.0 ft SIZE: 6.630 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : LOBO DRILLING CO.
MUD TYPE : CHEMICAL VISCOSITY : 48.00 cp
WEIGHT : 9.400 ppg WATER LOSS: 8.000 cc
CHLORIDES : 6000 ppm
JARS-MAKE :
DID WELL FLOW?: NO SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

STRONG BLOW 15 MIN. ON INITIAL FLOW PERIOD. FAIR
BUILDING TO A GOOD BLOW ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	5.0	25.0	0.0	70.0	GAS & OIL CUT MUD
60.0	0.0	10.0	50.0	40.0	GAS & OIL CUT MUD
120.0	0.0	100.0	0.0	0.0	GAS ABOVE FLUID
0.0	0.0	0.0	0.0	0.0	CHLORIDES 56000 P.P.M.

RATE INFORMATION

OIL VOLUME:	0.0182 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	4.8065 SCF	AVERAGE OIL RATE:	4.3711 STB/D
MUD VOLUME:	0.4007 STB	AVERAGE WATER RATE:	5.2453 STB/D
WATER VOLUME:	0.1821 STB		
TOTAL FLUID :	0.6010 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1974.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	107.00	107.00
INITIAL SHUT-IN	60.00		772.00
FINAL FLOW	60.00	129.00	129.00
FINAL SHUT-IN	90.00		644.00

FINAL HYDROSTATIC PRESSURE: 1942.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1940.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	85.00	85.00
INITIAL SHUT-IN	63.00		1269.00
FINAL FLOW	60.00	107.00	107.00
FINAL SHUT-IN	93.00		1247.00

FINAL HYDROSTATIC PRESSURE: 1918.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 4-19-92	TICKET	: 19429
CUSTOMER	: DUKE DRILLING COMPANY INC	LEASE	: PACKEBUSH
WELL	: 1-1	TEST:	2
ELEVATION:	1736 K.B.	GEOLOGIST:	BRITO
SECTION	: 1	FORMATION:	MISSISSIPPI
RANGE	: 10W	COUNTY:	RENO
GAUGE SN#:	1051	RANGE	: 4250
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	85.00	85.00
5.00	85.00	0.00
10.00	85.00	0.00
15.00	85.00	0.00
20.00	85.00	0.00
25.00	85.00	0.00
30.00	85.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	85.00	85.00	11.00
6.00	85.00	0.00	6.00
9.00	90.00	5.00	4.33
12.00	122.00	32.00	3.50
15.00	206.00	84.00	3.00
18.00	374.00	168.00	2.67
21.00	548.00	174.00	2.43
24.00	675.00	127.00	2.25
27.00	804.00	129.00	2.11
30.00	907.00	103.00	2.00
33.00	993.00	86.00	1.91
36.00	1050.00	57.00	1.83
39.00	1101.00	51.00	1.77
42.00	1141.00	40.00	1.71
45.00	1169.00	28.00	1.67
48.00	1196.00	27.00	1.63
51.00	1216.00	20.00	1.59
54.00	1232.00	16.00	1.56
57.00	1247.00	15.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1258.00	11.00	1.50
63.00	1269.00	11.00	1.48

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	107.00	107.00
5.00	107.00	0.00
10.00	107.00	0.00
15.00	107.00	0.00
20.00	107.00	0.00
25.00	107.00	0.00
30.00	107.00	0.00
35.00	107.00	0.00
40.00	107.00	0.00
45.00	107.00	0.00
50.00	107.00	0.00
55.00	107.00	0.00
60.00	107.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	107.00	107.00	21.00
6.00	107.00	0.00	11.00
9.00	125.00	18.00	7.67
12.00	177.00	52.00	6.00
15.00	286.00	109.00	5.00
18.00	419.00	133.00	4.33
21.00	557.00	138.00	3.86
24.00	654.00	97.00	3.50
27.00	746.00	92.00	3.22
30.00	830.00	84.00	3.00
33.00	891.00	61.00	2.82
36.00	951.00	60.00	2.67
39.00	996.00	45.00	2.54
42.00	1027.00	31.00	2.43
45.00	1059.00	32.00	2.33

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
48.00	1083.00	24.00	2.25
51.00	1109.00	26.00	2.18
54.00	1130.00	21.00	2.11
57.00	1145.00	15.00	2.05
60.00	1160.00	15.00	2.00
63.00	1174.00	14.00	1.95
66.00	1183.00	9.00	1.91
69.00	1193.00	10.00	1.87
72.00	1204.00	11.00	1.83
75.00	1211.00	7.00	1.80
78.00	1219.00	8.00	1.77
81.00	1223.00	4.00	1.74
84.00	1231.00	8.00	1.71
87.00	1235.00	4.00	1.69
90.00	1241.00	6.00	1.67
93.00	1247.00	6.00	1.65

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 4-19-92	TICKET : 19429
CUSTOMER : DUKE DRILLING COMPANY INC	LEASE : PACKEBUSH
WELL : 1-1 TEST: 2	GEOLOGIST: BRITO
ELEVATION: 1736 K.B.	FORMATION: MISSISSIPPI
SECTION : 1	TOWNSHIP : 25S
RANGE : 10W COUNTY: RENO	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

Input Data

Porosity	0.180	Rw:	0.328	h:	39.000
qo	4.4	GOR	3225.7		
Pvt Data					
Evaluation Pressure :			1269.0		
Evaluation Temperature:			120.0		
Oil Grav	35.00	Gas Grav	0.65	Pb	9956.47
Bo	2.741	Vis	1.000	Ct	3.3849E-004

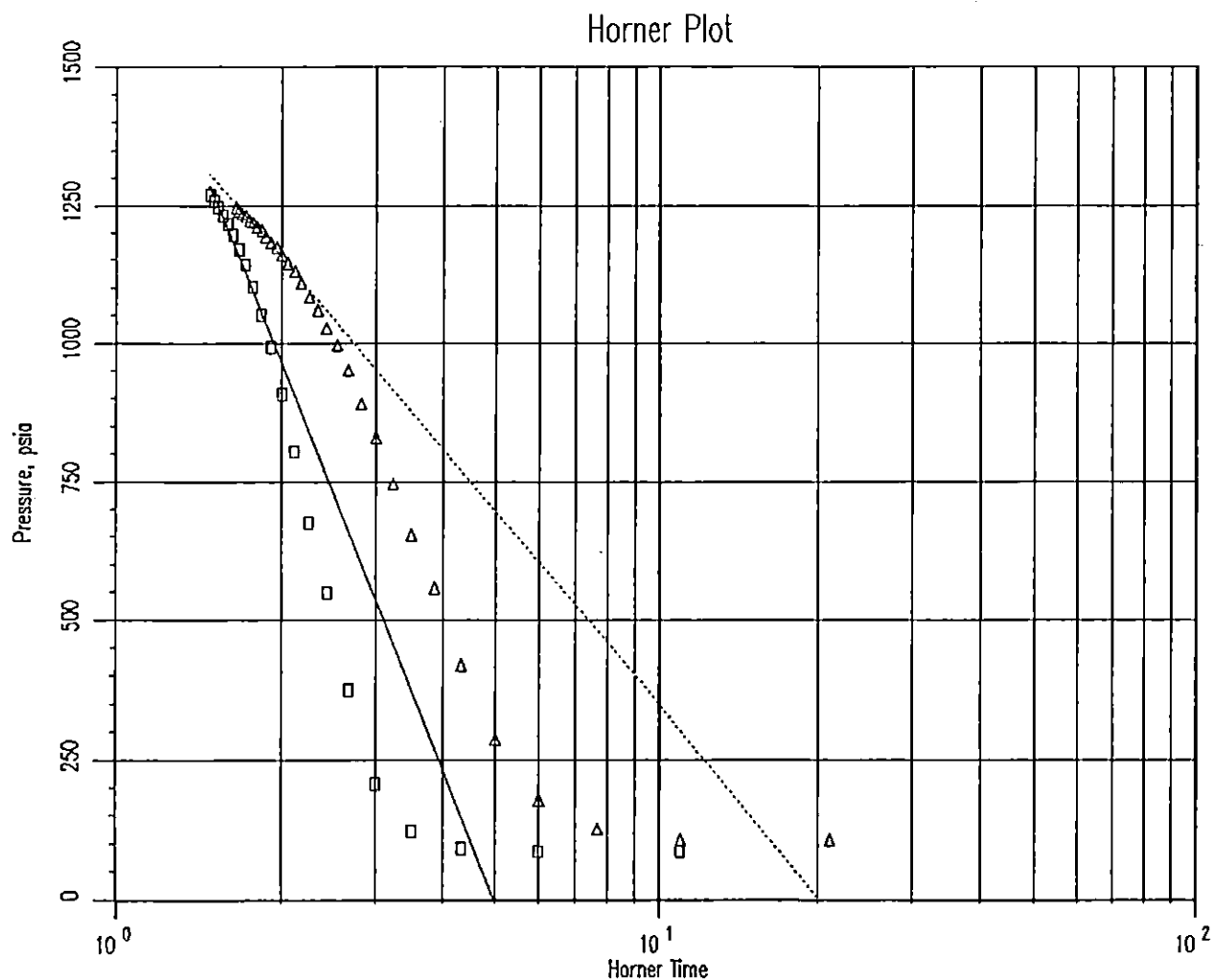
Horner Results

	Inital Shut-In	Final Shut-In
tp	0.50	1.00
slope	-2436.59	-1154.13
pstar	1697.44	1502.54
plhr	1268.38	1155.11
skin	0.80	0.71
k	0.01	0.01
kh/u	0.80	1.69
Ri	0.42	0.87
Damage-Ratio	1.8	1.5
Drawdown Factor		1.734
Drawdown P*		11.482

DATE 4-19-92
 CUSTOMER DUKE DRILLING COMPANY INC
 WELL 1-1
 ELEVATION 1736 K.B.
 SECTION 1
 RANGE 10W
 GAUGE SN# 1051

TEST 2
 COUNTY RENO
 RANGE 4250

TICKET 19429
 LEASE PACKEBUSH
 GEOLOGIST BRITO
 FORMATION MISSISSIPPI
 TOWNSHIP 25S
 STATE KS
 CLOCK 12



Result

	#1	#2
tp	0.50	1.00
Slope	-2436.59	-1154.13
Pstar	1697.44	1502.54
P1hr	1268.38	1155.11
Skin	0.80	0.71
k	0.01	0.01
kh/u	0.80	1.69
ri	0.42	0.87
DR	1.8	1.5
Drawdown Factor		1.734
Drawdown P*		11.482

— BUILD 1
 BUILD 2