

ORIGINAL

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

API NO. 15- 095-21730 0000

County Kingman County, Kansas

NE SE SE Sec. 18 Twp. 30S Rge. 6 XX ^E_V

990 Feet from (S)X (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 Maudie Reid Well # 4

Field Name _____

Producing Formation Mississippian

Elevation: Ground 1425 KB 1436

Total Depth 4580 PSTD 4356

Amount of Surface Pipe Set and Cemented at 264 Feet

Multiple Stage Cementing Collar Used? _____ Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sz cat.

Drilling Fluid Management Plan Alt. 1 - 2-20-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 6700 ppm Fluid volume 700 bbls

Desludging method used haul off to SWD

Location of fluid disposal if hauled offsite: _____

Operator Name Marland E. Bergman

Lease Name Maudie Reid SWD #2 License No. 30357

SE Quarter Sec. 18 Twp. 30S Rge. 6W E/V

County Kingman Docket No. D-06,622

Operator: License # 30357

Name: Marland E. Bergman

Address RR #1 Box 68

City/State/Zip Harper, Kansas 67058

Purchaser: Kansas Gas Supply

Operator Contact Person: Marland E. Bergman

Phone (316) 896-2333

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Harold Trapp

Designate Type of Completion
X New Well _____ Re-Entry _____ Workover

_____ Oil _____ SWD _____ SIOV _____ Temp. Abd.

X Gas _____ EXHR _____ SIGW

_____ Dry _____ Other (Core, WSV, 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 _____ PSTD

_____ Commingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

07-14-97 07-23-97 07-24-97

Spud Date Date Reached TD Completion Date

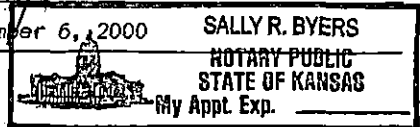
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on 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 Marland E. Bergman
Marland E. Bergman
Title Owner Date 8/27/97

Subscribed and sworn to before me this 27th day of August 19 97.

Notary Public Sally R. Byers
Sally R. Byers
Date Commission Expires December 6, 2000



K.C.C. OFFICE USE ONLY
F _____ Letter of Confidentiality Attached
C ✓ Wireline Log Received
C _____ Geologist Report Received
Distribution:
✓ KCC _____ SWD/Rep _____ KCPA
_____ KCS _____ Plug _____ Other _____
(Specify)

828-1997

Operator Name Marland E. Bergman

Lease Name Maudie Reid Well # 1 A

Sec. 18 Twp. 30S Rge. 6 East West

County Kingman County, Kansas

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:
 DI, Comp. Neu-Den, Microlog

Name	Top	Datum	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Onaga	2022'	- 582			
Topeka	2660'	-1220'			
Heebner	3034'	-1094			
Lansing	3274'	-1834'			
Kansas City	3541'	-2101'			
BKC	3778'	-2338'			
Simpson Sand	4498'	-3058'			
RTD	4480'	-3140'			

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	12-1/4"	8-5/8"	20#	264'	60/40 Poz	165	3%cc 2%gel
Production	7-7/8"	5-1/2"	14#	4564'	ASC	225	5#/sk kolseal

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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 Plug Set/Type	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
2	4094'-4100'	

TUBING RECORD Size 2" Set At 4191' Packer At Set Plug @ 4356' Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. August 8, 1997 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil	Sbbls.	Gas	Mcf	Water	Sbbls.	Gas-Oil Ratio	Gravity
			250		125			

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 4094'-4100'

Feb-20-98 01:58P Allied Cementing Co

3167936099

P.01

ALLIED CEMENTING CO., INC. 6264

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

SERVICE POINT:
med. lodge ks

DATE <u>7-14-97</u>	SEC <u>18</u>	TWP. <u>30S</u>	RANGE <u>6E</u>	CALLBD OUT <u>10:30 AM</u>	ON LOCATION <u>12:30 AM</u>	JOB START <u>4:00 AM</u>	JOB FINISH <u>5:15 AM</u>
LEASE <u>Reida</u>		WELL # <u>4</u>	LOCATION <u>R99, 25.334E-NIS</u>		COUNTY <u>Kimman</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR Duke Drilling #5 OWNER Berman oil
 TYPE OF JOB Surface casing CEMENT
 HOLE SIZE 12 1/4 I.D. 263
 CASING SIZE 2 3/8 x 20 # DEPTH 264 AMOUNT ORDERED 165 sacks 60/40/2%Gel
 TUBING SIZE _____ DEPTH _____ 3% CAPL
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 200 MINIMUM 100
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15 ft Request
 PERFS. _____

EQUIPMENT

PUMP TRUCK CEMENTER Barry Drilling
 # 266 HELPER Justin Hart
 BULK TRUCK
 # 301 DRIVER James Holt
 BULK TRUCK
 # _____ DRIVER _____

COMMON 99 @ _____
 POZMIX 66 @ _____
 GEL 3 @ _____
 CHLORIDE 5 @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 165 @ _____
 MILEAGE 165 x 40 @ _____

TOTAL _____

REMARKS:

Pipe on Bottom. Break Circ w/ Dip
Pump Hook up to casing mix pump
165sks 60/40/3%Gel + 3% Gel
Release Pump Dump Displace
Dip w/ 1 1/4 Bbls Fresh H₂O
Stop Pumps. Shut In
Cement Circ to Surface

SERVICE

DEPTH OF JOB 264
 PUMP TRUCK CHARGE 0.300
 EXTRA FOOTAGE @ _____
 MILEAGE 40 @ _____
 PLUG wooden 8 3/4 @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

CHARGE TO: Duke Drilling Co.
 STREET Box 823
 CITY Heath STATE KS ZIP 67530
Bend

FLOAT EQUIPMENT

_____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

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 Joe Ledwith JOE LEDWITH

TELEPHONE:

AREA CODE 913 483-2627
AREA CODE 913 483-3887

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31

RUSSELL, KANSAS 67665

Federal Tax I.D.# 48-0727860

TO: Marland E. Bergman

R. R. #1, Box 68

Harper, KS 67058

ORIGINAL

INVOICE NO. 75640

PURCHASE ORDER NO. _____

LEASE NAME Reida #1 #4

DATE 7-24-97

SERVICE AND MATERIALS AS FOLLOWS:

ASC 225 sks @ \$8.20	\$1,845.00	
Kol-Seal 1125# @ \$.38¢	427.50	
Mud Sweep 300 gal @ \$1.80	540.00	
	<u>2,812.50</u>	

*Paid
8-7-97*

Production Casing	1,214.00	
Handling 225 sks @ \$1.05	236.25	
Mileage (40) @ \$.04¢ per sk per mi	360.00	
Mi @ \$0.85 pmp trk. chg.	114.00	
1 plug	50.00	
1 Plug	<u>59.00</u>	
		2,033.25

1 Guide Shoe-----	\$168.00	
1 APU Insert-----	263.00	
5 Centralizers-----	<u>280.00</u>	
		<u>711.00</u>

If Account CURRENT a
Discount of \$ 833.51
will be Allowed ONLY if
Paid Within 30 Days from
Date of Invoice.

Total

\$5,556.75

Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

ALLIED CEMENTING CO., INC. 6509

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

ORIGINAL

SERVICE POINT: WEDGECRE LODGE

DATE <u>7-24-97</u>	SEC. <u>18</u>	TWP. <u>30s</u>	RANGE <u>6w</u>	CALLED OUT <u>4:00 AM</u>	ON LOCATION <u>7:00 AM</u>	JOB START <u>11:15 AM</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>REDA</u>	WELL# <u>1</u>	LOCATION <u>RAGO 2s, 3 3/4e, N1S</u>			COUNTY <u>KANAWAN</u>	STATE <u>KAN-75</u>	

OLD OR NEW (Circle one)

CONTRACTOR DUKE DRIB #5
 TYPE OF JOB PRODUCTION CASING
 HOLE SIZE 7 7/8" T.D. 4580'
 CASING SIZE 5 1/2" 15.5# DEPTH 4579'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 14.50# MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 40.8'
 CEMENT LEFT IN CSG. _____
 PERFS. _____

OWNER WARLAND E. BERGMAN
 CEMENT

AMOUNT ORDERED 300 BALS. MUD SUEEP
22.50 HSC + 5" KIL. SEAL

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
<u>ASC 225</u>	@	<u>3.30</u>	<u>1845.00</u>
<u>KIL-SEAL 1125#</u>	@	<u>.38</u>	<u>427.50</u>
<u>MUD SUEEP 300 BALS.</u>	@	<u>1.90</u>	<u>570.00</u>
	@		
	@		
HANDLING <u>225</u>	@	<u>1.05</u>	<u>236.25</u>
MILEAGE <u>22.5 x 40</u>		<u>.04</u>	<u>360.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER KEVIN PRUNARDT
 # 266 HELPER JUSTIN HART
 BULK TRUCK
 # 242 DRIVER JOHN KELLEY
 BULK TRUCK
 # _____ DRIVER _____

TOTAL \$3408.75

REMARKS:

RUN 5 1/2" CASING + BREAK PERIOD 072 ON
TRIP RODDIE/150' - PUMP 300 BALS.
MUD SUEEP, 300 BALS. HSC + 5" KIL. SEAL
DE-SCALE PILE TO 4541' WITH 111 BALS.
FRESH MUD. HOPE HELP

SERVICE

DEPTH OF JOB <u>4579'</u>		
PUMP TRUCK CHARGE		<u>1214.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>40</u>	@	<u>2.95</u> <u>114.00</u>
PLUG <u>5 1/2" TRP</u>	@	<u>50.00</u> <u>50.00</u>
<u>5 1/2" BHP</u>	@	<u>59.00</u> <u>59.00</u>
	@	

TOTAL \$1437.00

CHARGE TO: WARLAND E. BERGMAN
 STREET RR 1, BOX 6000
 CITY HARPER STATE KAN-75 ZIP 67058

FLOAT EQUIPMENT

<u>1- REG. BUILD OF JOE</u>	@	<u>163.00</u>	<u>163.00</u>
<u>1- AFD INSERT</u>	@	<u>263.00</u>	<u>263.00</u>
<u>0- TURBO BENTONITE</u>	@	<u>56.00</u>	<u>292.00</u>
	@		
	@		

TOTAL \$711.00

TAX _____
 TOTAL CHARGE \$5556.75
 DISCOUNT \$323.51 IF PAID IN 30 DAYS
 NET \$4723.24

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 Warland Bergman

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 ~~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 wilful 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.

DST REPORT

15-095-21730

GENERAL INFORMATION

DATE : 7/19/97
 CUSTOMER : BERGMAN OIL
 WELL : #4
 ELEVATION: 1425 GL
 SECTION : 18
 RANGE : 6W
 GAUGE SN#: 1562

ORIGINAL

TEST: 1

COUNTY: KINGMAN
 RANGE : 3900

TICKET : 22333
 LEASE : MAUDIE REIDA
 GEOLOGIST: TRAPP
 FORMATION: SWOPE
 TOWNSHIP : 30S
 STATE : KS
 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3688.00 ft TO: 3715.00 ft TVD: 3715.0 ft
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
 DEPTH OF RECORDERS: 3700.0 ft 3703.0 ft
 TEMPERATURE: 112.0

DRILL COLLAR LENGTH: 480.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3181.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 27.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 27.0 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: 3683.0 ft	SIZE:	6.630 in
PACKER DEPTH: 3688.0 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. : DUKE RIG 5	VISCOSITY :	42.00 cp
MUD TYPE : CHEMICAL	WATER LOSS:	12.800 cc
WEIGHT : 9.100 ppg	SERIAL NUMBER: 411	
CHLORIDES : 5000 ppm	REVERSED OUT?: NO	
JARS-MAKE : WTC		
DID WELL FLOW?: NO		

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK SURFACE BLOW. FINAL FLOW PERIOD VERY WEAK SURFACE BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1.0	100.0	0.0	0.0	0.0	FREE OIL
500.0	0.0	0.0	70.0	30.0	MUDDY SALTWATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 86000 PPM

RATE INFORMATION

OIL VOLUME:	0.0140 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.2244 STB/D
MUD VOLUME:	0.7923 STB	AVERAGE WATER RATE:	42.2547 STB/D
WATER VOLUME:	1.8486 STB		
TOTAL FLUID :	2.6549 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1885.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	110.00	130.00
INITIAL SHUT-IN	60.00		1332.00
FINAL FLOW	60.00	220.00	280.00
FINAL SHUT-IN	120.00		1332.00

FINAL HYDROSTATIC PRESSURE: 1816.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1851.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	101.86	120.76
INITIAL SHUT-IN	60.00		1317.26
FINAL FLOW	60.00	193.77	280.80
FINAL SHUT-IN	120.00		1319.53

FINAL HYDROSTATIC PRESSURE: 1805.00

Company: BERGMAN OIL
 Well: MAUDIE REIDA #4
 Field: TKT 22333 DST 1

[Saturday: July 19, 1997]
 Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	18: 6:45	0.0000	101.86
6	0	18: 7:21	0.0100	101.87
11	0	18: 7:57	0.0200	101.05
16	0	18: 8:33	0.0300	99.40
21	0	18: 9: 9	0.0400	96.08
26	0	18: 9:45	0.0500	93.60
31	0	18:10:21	0.0600	91.94
36	0	18:10:57	0.0700	88.63
41	0	18:11:33	0.0800	87.25
46	0	18:12: 9	0.0900	85.88
51	0	18:12:45	0.1000	84.50
56	0	18:13:21	0.1100	83.68
61	0	18:13:57	0.1200	83.70
66	0	18:14:33	0.1300	83.71
71	0	18:15: 9	0.1400	83.72
76	0	18:15:45	0.1500	83.73
81	0	18:16:21	0.1600	83.75
86	0	18:16:57	0.1700	83.76
91	0	18:17:33	0.1800	83.77
96	0	18:18: 9	0.1900	84.12
101	0	18:18:45	0.2000	84.97
106	0	18:19:21	0.2099	85.81
111	0	18:19:57	0.2199	86.66
116	0	18:20:33	0.2299	87.50
121	0	18:21: 9	0.2399	88.35
126	0	18:21:45	0.2499	89.42
131	0	18:22:21	0.2599	90.82
136	0	18:22:57	0.2699	92.22
141	0	18:23:32	0.2798	93.62
146	0	18:24: 8	0.2898	95.02
151	0	18:24:44	0.2998	96.42
156	0	18:25:20	0.3098	97.77
161	0	18:25:56	0.3198	99.05
166	0	18:26:32	0.3297	100.33
171	0	18:27: 8	0.3397	101.61
176	0	18:27:44	0.3497	102.89
181	0	18:28:20	0.3597	104.17
186	0	18:28:56	0.3697	105.45
191	0	18:29:32	0.3796	106.73
196	0	18:30: 8	0.3896	108.01
201	0	18:30:44	0.3996	110.71
206	0	18:31:20	0.4096	112.38
211	0	18:31:55	0.4196	114.06
216	0	18:32:31	0.4295	115.74
221	0	18:33: 7	0.4395	117.42
226	0	18:33:43	0.4495	120.76
END FLOW 1				
START SHUTIN 1				
231	0	18:34:19	0.4594	128.27
236	0	18:34:55	0.4693	139.94
241	0	18:35:30	0.4791	168.26
246	0	18:36: 5	0.4888	209.91
251	0	18:36:37	0.4977	348.97
256	0	18:37: 7	0.5062	550.48

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
261	0	18:37:39	0.5149	713.69
266	0	18:38:10	0.5236	889.39
271	0	18:38:44	0.5332	947.55
276	0	18:39:19	0.5427	1007.20
281	0	18:39:53	0.5523	1053.13
286	0	18:40:28	0.5620	1089.76
291	0	18:41: 4	0.5719	1107.05
296	0	18:41:39	0.5818	1122.34
301	0	18:42:15	0.5917	1136.05
306	0	18:42:51	0.6016	1148.53
311	0	18:43:26	0.6115	1160.18
316	0	18:44: 2	0.6214	1171.13
321	0	18:44:38	0.6313	1180.98
326	0	18:45:13	0.6412	1189.49
331	0	18:45:49	0.6511	1196.66
336	0	18:46:25	0.6611	1202.89
341	0	18:47: 1	0.6711	1206.17
346	0	18:47:37	0.6810	1210.94
351	0	18:48:13	0.6910	1215.60
356	0	18:48:48	0.7009	1220.08
361	0	18:49:24	0.7109	1224.35
366	0	18:50: 0	0.7208	1228.39
371	0	18:50:36	0.7308	1232.18
376	0	18:51:12	0.7408	1235.74
381	0	18:51:48	0.7507	1239.08
386	0	18:52:24	0.7607	1242.24
391	0	18:52:59	0.7707	1245.23
396	0	18:53:35	0.7806	1248.07
401	0	18:54:11	0.7906	1250.79
406	0	18:54:47	0.8006	1253.39
411	0	18:55:23	0.8106	1255.91
416	0	18:55:59	0.8205	1258.34
421	0	18:56:35	0.8305	1260.71
426	0	18:57:11	0.8405	1263.01
431	0	18:57:47	0.8505	1265.26
436	0	18:58:23	0.8604	1267.44
441	0	18:58:58	0.8704	1269.55
446	0	18:59:34	0.8804	1271.59
451	0	19: 0:10	0.8904	1273.55
456	0	19: 0:46	0.9003	1275.42
461	0	19: 1:22	0.9103	1277.18
466	0	19: 1:58	0.9203	1278.85
471	0	19: 2:34	0.9303	1280.40
476	0	19: 3:10	0.9403	1281.85
481	0	19: 3:46	0.9502	1283.20
486	0	19: 4:22	0.9602	1284.44
491	0	19: 4:58	0.9702	1285.58
496	0	19: 5:34	0.9802	1286.65
501	0	19: 6:10	0.9902	1287.66
506	0	19: 6:46	1.0001	1288.64
511	0	19: 7:22	1.0101	1289.59
516	0	19: 7:57	1.0201	1290.52
521	0	19: 8:33	1.0301	1291.44
526	0	19: 9: 9	1.0401	1292.33
531	0	19: 9:45	1.0501	1293.22

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
536	0	19:10:21	1.0601	1294.09
541	0	19:10:57	1.0700	1294.96
546	0	19:11:33	1.0800	1295.81
551	0	19:12: 9	1.0900	1296.65
556	0	19:12:45	1.1000	1297.47
561	0	19:13:21	1.1100	1298.29
566	0	19:13:57	1.1200	1299.09
571	0	19:14:33	1.1299	1299.88
576	0	19:15: 9	1.1399	1300.65
581	0	19:15:45	1.1499	1301.40
586	0	19:16:21	1.1599	1302.14
591	0	19:16:57	1.1699	1302.86
596	0	19:17:33	1.1799	1303.56
601	0	19:18: 9	1.1899	1304.25
606	0	19:18:45	1.1999	1304.93
611	0	19:19:20	1.2098	1305.60
616	0	19:19:56	1.2198	1306.25
621	0	19:20:32	1.2298	1306.90
626	0	19:21: 8	1.2398	1307.55
631	0	19:21:44	1.2498	1308.19
636	0	19:22:20	1.2598	1308.83
641	0	19:22:56	1.2698	1310.47
646	0	19:23:32	1.2797	1310.49
651	0	19:24: 8	1.2897	1311.32
656	0	19:24:44	1.2997	1311.33
661	0	19:25:20	1.3097	1312.16
666	0	19:25:56	1.3197	1312.17
671	0	19:26:32	1.3297	1313.82
676	0	19:27: 8	1.3397	1313.83
681	0	19:27:44	1.3497	1313.84
686	0	19:28:20	1.3597	1313.85
691	0	19:28:56	1.3696	1314.68
696	0	19:29:32	1.3796	1314.70
701	0	19:30: 8	1.3896	1315.53
706	0	19:30:44	1.3996	1316.36
711	0	19:31:20	1.4096	1316.37
716	0	19:31:56	1.4196	1317.20
721	0	19:32:32	1.4296	1317.21
726	0	19:33: 7	1.4396	1318.04
731	0	19:33:43	1.4495	1318.05
736	0	19:34:19	1.4595	1318.06
741	0	19:34:55	1.4695	1317.26
		END SHUTIN 1		
		START FLOW 2		
742	0	19:37:28	1.5120	193.77
747	0	19:38: 4	1.5220	193.78
752	0	19:38:40	1.5320	193.79
757	0	19:39:16	1.5421	190.47
762	0	19:39:52	1.5521	186.85
767	0	19:40:29	1.5621	185.35
772	0	19:41: 5	1.5721	183.85
777	0	19:41:41	1.5821	182.35
782	0	19:42:17	1.5921	180.85
787	0	19:42:53	1.6021	180.42
792	0	19:43:29	1.6121	180.25

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
797	0	19:44: 4	1.6221	180.08
802	0	19:44:40	1.6320	179.91
807	0	19:45:16	1.6420	179.74
812	0	19:45:52	1.6520	179.58
817	0	19:46:28	1.6620	179.41
822	0	19:47: 4	1.6720	179.24
827	0	19:47:40	1.6820	179.07
832	0	19:48:16	1.6920	179.57
837	0	19:48:52	1.7020	180.51
842	0	19:49:28	1.7120	181.45
847	0	19:50: 4	1.7220	182.38
852	0	19:50:40	1.7319	183.32
857	0	19:51:16	1.7419	184.26
862	0	19:51:52	1.7519	185.20
867	0	19:52:28	1.7619	186.12
872	0	19:53: 4	1.7719	187.03
877	0	19:53:40	1.7819	187.93
882	0	19:54:16	1.7918	188.84
887	0	19:54:52	1.8018	189.74
892	0	19:55:28	1.8118	190.65
897	0	19:56: 4	1.8218	191.88
902	0	19:56:39	1.8318	193.20
907	0	19:57:15	1.8418	194.51
912	0	19:57:51	1.8517	195.82
917	0	19:58:27	1.8617	197.14
922	0	19:59: 3	1.8717	198.45
927	0	19:59:39	1.8817	199.77
932	0	20: 0:15	1.8917	201.08
937	0	20: 0:51	1.9017	202.39
942	0	20: 1:27	1.9116	203.71
947	0	20: 2: 3	1.9216	205.02
952	0	20: 2:39	1.9316	206.34
957	0	20: 3:15	1.9416	207.65
962	0	20: 3:51	1.9516	208.94
967	0	20: 4:27	1.9615	210.22
972	0	20: 5: 3	1.9715	211.51
977	0	20: 5:39	1.9815	212.79
982	0	20: 6:14	1.9915	214.08
987	0	20: 6:50	2.0015	215.36
992	0	20: 7:26	2.0115	216.65
997	0	20: 8: 2	2.0214	217.93
1002	0	20: 8:38	2.0314	219.22
1007	0	20: 9:14	2.0414	220.50
1012	0	20: 9:50	2.0514	221.79
1017	0	20:10:26	2.0614	223.07
1022	0	20:11: 2	2.0713	224.36
1027	0	20:11:38	2.0813	225.64
1032	0	20:12:14	2.0913	226.93
1037	0	20:12:50	2.1013	228.23
1042	0	20:13:26	2.1113	229.52
1047	0	20:14: 2	2.1213	230.82
1052	0	20:14:38	2.1312	232.11
1057	0	20:15:13	2.1412	233.40
1062	0	20:15:49	2.1512	234.70
1067	0	20:16:25	2.1612	235.99

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1072	0	20:17: 1	2.1712	237.29
1077	0	20:17:37	2.1811	238.58
1082	0	20:18:13	2.1911	239.88
1087	0	20:18:49	2.2011	241.17
1092	0	20:19:25	2.2111	242.46
1097	0	20:20: 1	2.2211	243.76
1102	0	20:20:37	2.2311	245.05
1107	0	20:21:13	2.2411	246.35
1112	0	20:21:49	2.2510	247.57
1117	0	20:22:25	2.2610	248.80
1122	0	20:23: 1	2.2710	250.03
1127	0	20:23:37	2.2810	251.25
1132	0	20:24:13	2.2910	252.48
1137	0	20:24:48	2.3009	253.71
1142	0	20:25:24	2.3109	253.93
1147	0	20:26: 0	2.3209	255.33
1152	0	20:26:36	2.3309	256.73
1157	0	20:27:12	2.3409	258.13
1162	0	20:27:48	2.3509	259.19
1167	0	20:28:24	2.3608	260.24
1172	0	20:29: 0	2.3708	261.30
1177	0	20:29:36	2.3808	262.35
1182	0	20:30:12	2.3908	263.40
1187	0	20:30:48	2.4008	264.46
1192	0	20:31:24	2.4108	265.51
1197	0	20:32: 0	2.4207	266.56
1202	0	20:32:36	2.4307	267.41
1207	0	20:33:12	2.4407	268.26
1212	0	20:33:48	2.4507	269.10
1217	0	20:34:24	2.4607	270.78
1222	0	20:34:59	2.4706	277.45
1227	0	20:35:35	2.4806	280.80
		END FLOW 2		
		START SHUTIN 2		
1229	0	20:35:49	2.4845	290.47
1232	0	20:36:10	2.4904	305.85
1237	0	20:36:45	2.5001	340.71
1242	0	20:37:20	2.5097	387.89
1247	0	20:37:54	2.5191	478.01
1252	0	20:38:27	2.5282	583.96
1257	0	20:38:59	2.5371	732.99
1262	0	20:39:31	2.5461	870.25
1267	0	20:40: 5	2.5555	944.07
1272	0	20:40:39	2.5650	1006.62
1277	0	20:41:14	2.5747	1051.88
1282	0	20:41:49	2.5843	1096.66
1287	0	20:42:24	2.5942	1109.80
1292	0	20:43: 0	2.6041	1122.47
1297	0	20:43:35	2.6140	1134.34
1302	0	20:44:11	2.6239	1145.21
1307	0	20:44:47	2.6338	1154.89
1312	0	20:45:23	2.6437	1163.34
1317	0	20:45:58	2.6537	1170.72
1322	0	20:46:34	2.6636	1177.23
1327	0	20:47:10	2.6736	1183.06

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1332	0	20:47:46	2.6835	1188.35
1337	0	20:48:22	2.6935	1193.17
1342	0	20:48:57	2.7034	1197.60
1347	0	20:49:33	2.7134	1201.67
1352	0	20:50: 9	2.7234	1205.43
1357	0	20:50:45	2.7333	1208.93
1362	0	20:51:21	2.7433	1212.18
1367	0	20:51:57	2.7533	1215.23
1372	0	20:52:33	2.7632	1218.08
1377	0	20:53: 9	2.7732	1220.76
1382	0	20:53:45	2.7832	1223.29
1387	0	20:54:20	2.7931	1225.70
1392	0	20:54:56	2.8031	1227.99
1397	0	20:55:32	2.8131	1230.18
1402	0	20:56: 8	2.8231	1232.29
1407	0	20:56:44	2.8331	1234.32
1412	0	20:57:20	2.8430	1236.27
1417	0	20:57:56	2.8530	1238.17
1422	0	20:58:32	2.8630	1240.00
1427	0	20:59: 8	2.8730	1241.77
1432	0	20:59:44	2.8829	1243.50
1437	0	21: 0:20	2.8929	1245.17
1442	0	21: 0:55	2.9029	1246.79
1447	0	21: 1:31	2.9129	1248.37
1452	0	21: 2: 7	2.9228	1249.90
1457	0	21: 2:43	2.9328	1251.39
1462	0	21: 3:19	2.9428	1252.84
1467	0	21: 3:55	2.9528	1254.24
1472	0	21: 4:31	2.9628	1255.60
1477	0	21: 5: 7	2.9728	1256.92
1482	0	21: 5:43	2.9827	1258.21
1487	0	21: 6:19	2.9927	1259.45
1492	0	21: 6:55	3.0027	1260.66
1497	0	21: 7:31	3.0127	1261.84
1502	0	21: 8: 7	3.0227	1262.98
1507	0	21: 8:43	3.0326	1264.09
1512	0	21: 9:19	3.0426	1265.17
1517	0	21: 9:54	3.0526	1266.22
1522	0	21:10:30	3.0626	1267.24
1527	0	21:11: 6	3.0726	1268.24
1532	0	21:11:42	3.0826	1269.22
1537	0	21:12:18	3.0926	1270.17
1542	0	21:12:54	3.1025	1271.11
1547	0	21:13:30	3.1125	1272.03
1552	0	21:14: 6	3.1225	1272.37
1557	0	21:14:42	3.1325	1273.20
1562	0	21:15:18	3.1425	1274.03
1567	0	21:15:54	3.1525	1274.85
1572	0	21:16:30	3.1625	1275.67
1577	0	21:17: 6	3.1724	1276.48
1582	0	21:17:42	3.1824	1277.28
1587	0	21:18:18	3.1924	1278.06
1592	0	21:18:54	3.2024	1278.83
1597	0	21:19:30	3.2124	1279.58
1602	0	21:20: 6	3.2224	1280.32

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1607	0	21:20:42	3.2324	1281.05
1612	0	21:21:18	3.2423	1281.75
1617	0	21:21:53	3.2523	1282.44
1622	0	21:22:29	3.2623	1283.11
1627	0	21:23: 5	3.2723	1283.75
1632	0	21:23:41	3.2823	1284.38
1637	0	21:24:17	3.2923	1284.99
1642	0	21:24:53	3.3023	1285.58
1647	0	21:25:29	3.3122	1286.16
1652	0	21:26: 5	3.3222	1286.73
1657	0	21:26:41	3.3322	1287.28
1662	0	21:27:17	3.3422	1287.82
1667	0	21:27:53	3.3522	1288.35
1672	0	21:28:29	3.3622	1288.87
1677	0	21:29: 5	3.3722	1289.37
1682	0	21:29:41	3.3822	1289.88
1687	0	21:30:17	3.3921	1290.37
1692	0	21:30:53	3.4021	1290.85
1697	0	21:31:29	3.4121	1291.33
1702	0	21:32: 5	3.4221	1291.81
1707	0	21:32:41	3.4321	1292.28
1712	0	21:33:17	3.4421	1292.74
1717	0	21:33:53	3.4521	1293.20
1722	0	21:34:29	3.4621	1293.66
1727	0	21:35: 4	3.4721	1294.11
1732	0	21:35:40	3.4820	1294.56
1737	0	21:36:16	3.4920	1295.01
1742	0	21:36:52	3.5020	1295.45
1747	0	21:37:28	3.5120	1295.89
1752	0	21:38: 4	3.5220	1296.33
1757	0	21:38:40	3.5320	1296.76
1762	0	21:39:16	3.5420	1297.20
1767	0	21:39:52	3.5520	1297.63
1772	0	21:40:28	3.5619	1298.06
1777	0	21:41: 4	3.5719	1298.49
1782	0	21:41:40	3.5819	1299.30
1787	0	21:42:16	3.5919	1299.67
1792	0	21:42:52	3.6019	1300.02
1797	0	21:43:28	3.6119	1300.35
1802	0	21:44: 4	3.6219	1300.66
1807	0	21:44:40	3.6319	1300.96
1812	0	21:45:16	3.6419	1301.24
1817	0	21:45:52	3.6518	1301.52
1822	0	21:46:28	3.6618	1301.79
1827	0	21:47: 4	3.6718	1302.05
1832	0	21:47:40	3.6818	1302.31
1837	0	21:48:16	3.6918	1302.56
1842	0	21:48:52	3.7018	1302.82
1847	0	21:49:27	3.7118	1303.08
1852	0	21:50: 3	3.7218	1303.34
1857	0	21:50:39	3.7318	1303.60
1862	0	21:51:15	3.7418	1303.88
1867	0	21:51:51	3.7517	1304.16
1872	0	21:52:27	3.7617	1304.46
1877	0	21:53: 3	3.7717	1304.76

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1882	0	21:53:39	3.7817	1305.08
1887	0	21:54:15	3.7917	1305.41
1892	0	21:54:51	3.8017	1305.75
1897	0	21:55:27	3.8117	1306.10
1902	0	21:56: 3	3.8217	1306.46
1907	0	21:56:39	3.8317	1306.83
1912	0	21:57:15	3.8417	1307.21
1917	0	21:57:51	3.8516	1307.60
1922	0	21:58:27	3.8616	1307.99
1927	0	21:59: 3	3.8716	1308.39
1932	0	21:59:39	3.8816	1308.78
1937	0	22: 0:15	3.8916	1308.95
1942	0	22: 0:51	3.9016	1308.96
1947	0	22: 1:27	3.9116	1309.79
1952	0	22: 2: 3	3.9216	1310.62
1957	0	22: 2:39	3.9315	1311.45
1962	0	22: 3:15	3.9415	1311.46
1967	0	22: 3:51	3.9515	1310.66
1972	0	22: 4:27	3.9615	1310.67
1977	0	22: 5: 3	3.9715	1310.68
1982	0	22: 5:38	3.9815	1311.51
1987	0	22: 6:14	3.9915	1312.34
1992	0	22: 6:50	4.0015	1312.36
1997	0	22: 7:26	4.0115	1313.18
2002	0	22: 8: 2	4.0215	1312.38
2007	0	22: 8:38	4.0314	1312.39
2012	0	22: 9:14	4.0414	1313.22
2017	0	22: 9:50	4.0514	1314.05
2022	0	22:10:26	4.0614	1314.11
2027	0	22:11: 2	4.0714	1314.32
2032	0	22:11:38	4.0814	1314.53
2037	0	22:12:14	4.0914	1314.72
2042	0	22:12:50	4.1014	1314.89
2047	0	22:13:26	4.1114	1315.02
2052	0	22:14: 2	4.1214	1315.12
2057	0	22:14:38	4.1314	1315.20
2062	0	22:15:14	4.1413	1315.87
2067	0	22:15:50	4.1513	1316.01
2072	0	22:16:26	4.1613	1316.15
2077	0	22:17: 2	4.1713	1316.28
2082	0	22:17:38	4.1813	1316.42
2087	0	22:18:14	4.1913	1316.56
2092	0	22:18:50	4.2013	1316.70
2097	0	22:19:26	4.2113	1316.84
2102	0	22:20: 2	4.2213	1316.98
2107	0	22:20:38	4.2312	1317.12
2112	0	22:21:14	4.2412	1317.27
2117	0	22:21:49	4.2512	1317.41
2122	0	22:22:25	4.2612	1317.56
2127	0	22:23: 1	4.2712	1317.71
2132	0	22:23:37	4.2812	1317.86
2137	0	22:24:13	4.2912	1318.02
2142	0	22:24:49	4.3012	1318.17
2147	0	22:25:25	4.3112	1318.33
2152	0	22:26: 1	4.3212	1318.49

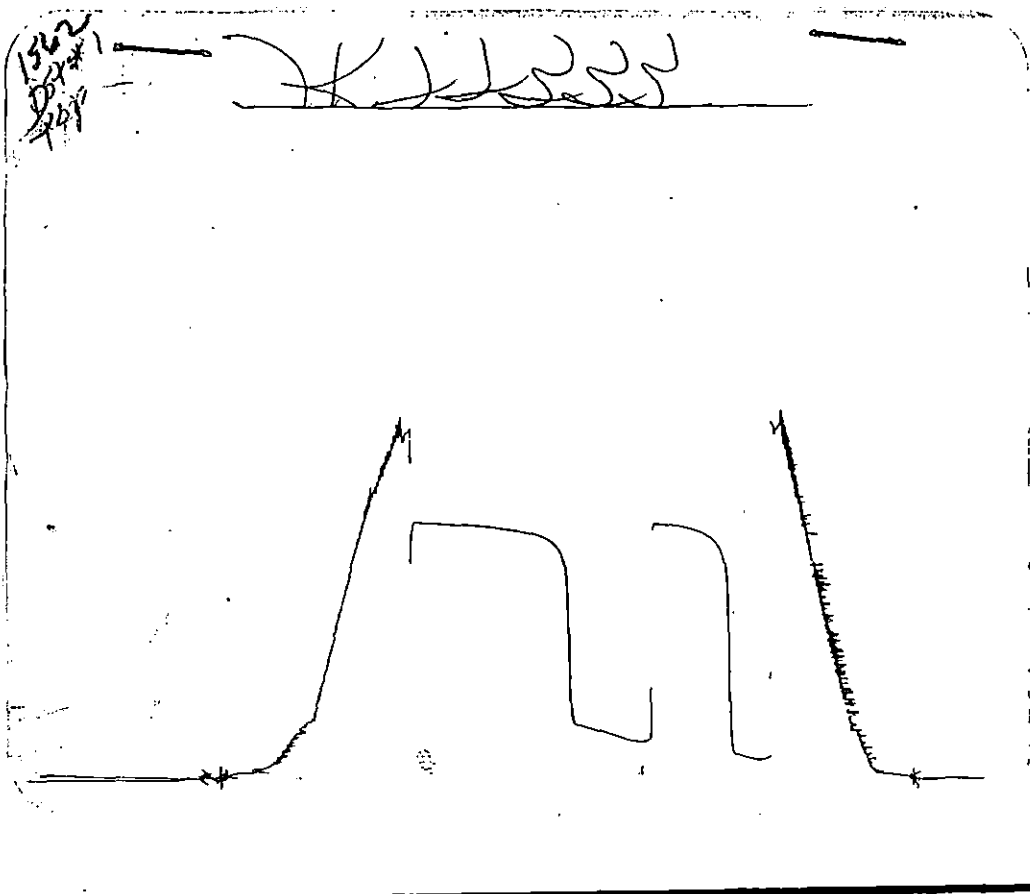
WESTERN TESTING CO., INC.

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22333 DST 1

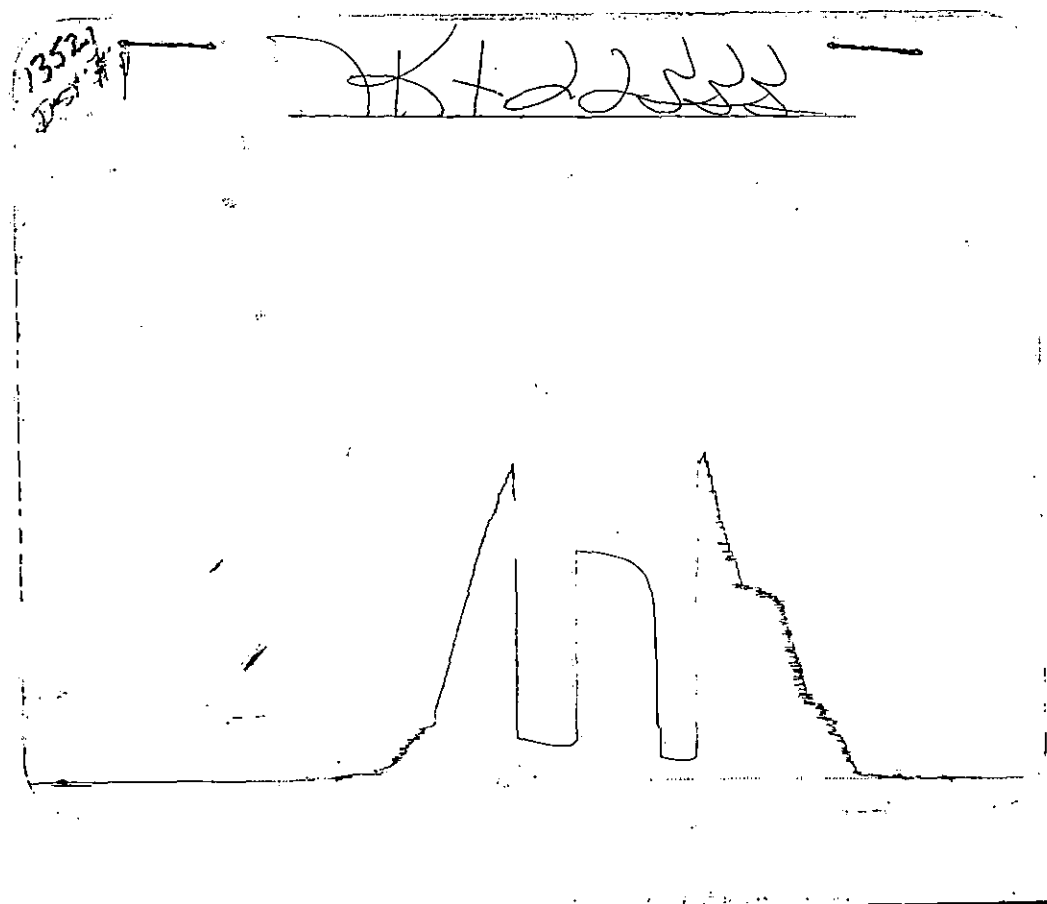
[Saturday: July 19, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
2157	0	22:26:37	4.3312	1318.66
2162	0	22:27:13	4.3411	1318.83
2167	0	22:27:49	4.3511	1319.00
2172	0	22:28:25	4.3611	1319.17
2177	0	22:29: 1	4.3711	1319.35
2182	0	22:29:37	4.3811	1319.53
2187	0	22:30:13	4.3911	1319.71
2192	0	22:30:49	4.4011	1319.90
2197	0	22:31:25	4.4111	1320.09
2202	0	22:32: 1	4.4211	1320.28
2207	0	22:32:37	4.4311	1320.48
2212	0	22:33:13	4.4411	1320.68
2217	0	22:33:49	4.4510	1320.87
2222	0	22:34:25	4.4610	1321.07
2227	0	22:35: 1	4.4710	1320.31
2232	0	22:35:37	4.4810	1319.50
2237	0	22:36:13	4.4910	1319.52
2242	0	22:36:49	4.5010	1319.53

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 7/21/97
CUSTOMER : BERGMAN OIL
WELL : #4 TEST: 2
ELEVATION: 1425 GL
SECTION : 18
RANGE : 6W COUNTY: KINGMAN
GAUGE SN#: 1562 RANGE : 3900
TICKET : 22334
LEASE : MAUDIE REIDA
GEOLOGIST: TRAPP
FORMATION: MISSISSIPPI
TOWNSHIP : 30S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4089.00 ft TO: 4110.00 ft TVD: 4110.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 4100.0 ft 4103.0 ft
TEMPERATURE: 116.0
DRILL COLLAR LENGTH: 480.0 ft I.D.: 2.250 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3582.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 27.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 21.0 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: 4084.0 ft SIZE: 6.630 in
PACKER DEPTH: 4089.0 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. : DUKE RIG 5
MUD TYPE : CHEMICAL
WEIGHT : 9.300 ppg
CHLORIDES : 5000 ppm
JARS-MAKE : WTC
DID WELL FLOW?: YES
VISCOSITY : 50.00 cp
WATER LOSS: 12.000 cc
SERIAL NUMBER: 411
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW OFF BOTTOM OF
BUCKET IMMEDIATELY WITH GAS TO SURFACE IN 5
MINUTES. SEE GAS REPORT.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
320.0	10.0	5.0	0.0	1.0	GAS & OIL C/MUDDY WATER CHLORIDES 76500 PPM
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	0.1574 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.4418 SCF	AVERAGE OIL RATE:	2.7695 STB/D
MUD VOLUME:	0.0157 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.1731 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2142.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	280.00	250.00
INITIAL SHUT-IN	60.00		1243.00
FINAL FLOW	60.00	250.00	250.00
FINAL SHUT-IN	120.00		1243.00

FINAL HYDROSTATIC PRESSURE: 2033.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2099.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	311.57	258.67
INITIAL SHUT-IN	60.00		1243.31
FINAL FLOW	60.00	289.30	258.13
FINAL SHUT-IN	120.00		1236.18

FINAL HYDROSTATIC PRESSURE: 2026.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 7/21/97 CUSTOMER : BERGMAN OIL WELL : #4 ELEVATION: 1425 GL SECTION : 18 RANGE : 6W GAUGE SN#: 1562	TEST: 2	COUNTY: KINGMAN RANGE : 3900 TICKET : 22334 LEASE : MAUDIE REIDA GEOLOGIST: TRAPP FORMATION: MISSISSIPPI TOWNSHIP : 30S STATE : KS CLOCK : 12
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PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.000	12 PSIG	526000 SCF/D
15 MIN	MERLA	1.000	12 PSIG	526000 SCF/D
20 MIN	MERLA	1.000	12 PSIG	526000 SCF/D
25 MIN	MERLA	1.000	12 PSIG	526000 SCF/D
30 MIN	MERLA	1.000	12 PSIG	526000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.000	16 PSIG	627000 SCF/D
20 MIN	MERLA	1.000	14 PSIG	577000 SCF/D
30 MIN	MERLA	1.000	13 PSIG	552000 SCF/D
40 MIN	MERLA	1.000	17 PSIG	526000 SCF/D
50 MIN	MERLA	1.000	17 PSIG	526000 SCF/D
60 MIN	MERLA	1.000	17 PSIG	526000 SCF/D

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22334 DST 2

[Monday: July 21, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	3:51:17	0.0000	311.57
6	0	3:51:53	0.0100	311.64
11	0	3:52:29	0.0200	311.71
16	0	3:53: 6	0.0303	304.28
21	0	3:53:42	0.0404	300.19
26	0	3:54:19	0.0506	295.26
31	0	3:54:56	0.0607	291.16
36	0	3:55:32	0.0709	287.90
41	0	3:56: 8	0.0810	285.47
46	0	3:56:45	0.0911	282.21
51	0	3:57:21	0.1012	279.77
56	0	3:57:57	0.1112	277.34
61	0	3:58:34	0.1213	275.75
66	0	3:59:10	0.1314	273.32
71	0	3:59:46	0.1414	272.55
76	0	4: 0:22	0.1515	270.95
81	0	4: 0:58	0.1615	269.35
86	0	4: 1:35	0.1716	267.76
91	0	4: 2:11	0.1816	266.16
96	0	4: 2:47	0.1916	265.39
101	0	4: 3:23	0.2017	264.63
106	0	4: 3:59	0.2117	263.03
111	0	4: 4:35	0.2217	262.26
116	0	4: 5:11	0.2318	261.50
121	0	4: 5:47	0.2418	259.90
126	0	4: 6:23	0.2518	259.13
131	0	4: 6:59	0.2618	259.20
136	0	4: 7:36	0.2719	258.43
141	0	4: 8:12	0.2819	257.67
146	0	4: 8:48	0.2919	256.90
151	0	4: 9:24	0.3019	256.14
156	0	4:10: 0	0.3119	255.37
161	0	4:10:36	0.3220	254.61
166	0	4:11:12	0.3320	254.67
171	0	4:11:48	0.3420	253.91
176	0	4:12:24	0.3520	253.14
181	0	4:13: 0	0.3620	252.38
186	0	4:13:36	0.3721	251.61
191	0	4:14:12	0.3821	250.84
196	0	4:14:48	0.3921	250.91
201	0	4:15:24	0.4021	250.15
206	0	4:16: 0	0.4121	250.21
211	0	4:16:36	0.4220	251.94
216	0	4:17:11	0.4317	258.67
END FLOW 1				
START SHUTIN 1				
221	0	4:17:44	0.4409	280.38
226	0	4:18:17	0.4500	303.76
232	0	4:18:52	0.4597	362.95
240	0	4:19:25	0.4691	534.56
250	0	4:19:59	0.4784	810.26
258	0	4:20:34	0.4881	974.38
264	0	4:21: 8	0.4976	1036.18
269	0	4:21:40	0.5063	1069.71

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22334 DST 2

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
274	0	4:22:12	0.5154	1091.81
279	0	4:22:46	0.5247	1109.83
284	0	4:23:20	0.5342	1122.14
289	0	4:23:54	0.5438	1133.63
294	0	4:24:29	0.5534	1142.35
299	0	4:25: 4	0.5632	1147.71
304	0	4:25:40	0.5730	1152.85
309	0	4:26:15	0.5828	1157.62
314	0	4:26:50	0.5926	1162.03
319	0	4:27:26	0.6025	1166.09
324	0	4:28: 1	0.6123	1169.84
329	0	4:28:37	0.6222	1173.30
334	0	4:29:12	0.6320	1176.49
339	0	4:29:48	0.6419	1179.47
344	0	4:30:23	0.6518	1182.27
349	0	4:30:59	0.6617	1184.93
354	0	4:31:34	0.6716	1187.46
359	0	4:32:10	0.6815	1189.87
364	0	4:32:46	0.6914	1192.18
369	0	4:33:21	0.7013	1194.38
374	0	4:33:57	0.7112	1196.49
379	0	4:34:33	0.7211	1198.51
384	0	4:35: 8	0.7310	1200.44
389	0	4:35:44	0.7409	1202.29
394	0	4:36:20	0.7508	1204.05
399	0	4:36:56	0.7608	1205.72
404	0	4:37:31	0.7707	1207.30
409	0	4:38: 7	0.7806	1208.80
414	0	4:38:43	0.7906	1210.23
419	0	4:39:19	0.8005	1211.57
424	0	4:39:55	0.8105	1212.85
429	0	4:40:30	0.8204	1214.06
434	0	4:41: 6	0.8304	1215.21
439	0	4:41:42	0.8403	1216.29
444	0	4:42:18	0.8503	1217.33
449	0	4:42:54	0.8602	1218.32
454	0	4:43:29	0.8702	1219.26
459	0	4:44: 5	0.8801	1220.17
464	0	4:44:41	0.8901	1221.04
469	0	4:45:17	0.9000	1221.88
474	0	4:45:53	0.9100	1222.69
479	0	4:46:29	0.9200	1223.47
484	0	4:47: 5	0.9299	1224.24
489	0	4:47:40	0.9399	1224.97
494	0	4:48:16	0.9499	1225.69
499	0	4:48:52	0.9598	1226.39
504	0	4:49:28	0.9698	1227.07
509	0	4:50: 4	0.9798	1227.73
514	0	4:50:40	0.9897	1228.38
519	0	4:51:16	0.9997	1229.01
524	0	4:51:52	1.0097	1229.62
529	0	4:52:28	1.0196	1230.22
534	0	4:53: 3	1.0296	1230.80
539	0	4:53:39	1.0396	1231.37
544	0	4:54:15	1.0495	1231.91

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22334 DST 2

[Monday: July 21, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
549	0	4:54:51	1.0595	1232.45
554	0	4:55:27	1.0695	1232.96
559	0	4:56: 3	1.0795	1233.45
564	0	4:56:39	1.0894	1233.93
569	0	4:57:15	1.0994	1234.38
574	0	4:57:51	1.1094	1234.82
579	0	4:58:27	1.1194	1235.23
584	0	4:59: 3	1.1293	1235.63
589	0	4:59:38	1.1393	1236.01
594	0	5: 0:14	1.1493	1236.38
599	0	5: 0:50	1.1593	1236.73
604	0	5: 1:26	1.1693	1237.06
609	0	5: 2: 2	1.1792	1237.39
614	0	5: 2:38	1.1892	1237.70
619	0	5: 3:14	1.1992	1238.00
624	0	5: 3:50	1.2092	1238.29
629	0	5: 4:26	1.2192	1238.57
634	0	5: 5: 2	1.2291	1238.85
639	0	5: 5:38	1.2391	1239.11
644	0	5: 6:14	1.2491	1239.37
649	0	5: 6:50	1.2591	1239.62
654	0	5: 7:26	1.2691	1239.86
659	0	5: 8: 1	1.2791	1240.10
664	0	5: 8:37	1.2890	1240.32
669	0	5: 9:13	1.2990	1240.54
674	0	5: 9:49	1.3090	1240.74
679	0	5:10:25	1.3190	1240.94
684	0	5:11: 1	1.3290	1241.13
689	0	5:11:37	1.3390	1241.30
694	0	5:12:13	1.3490	1241.47
699	0	5:12:49	1.3590	1241.62
704	0	5:13:25	1.3689	1241.76
709	0	5:14: 1	1.3789	1241.89
714	0	5:14:37	1.3889	1242.01
719	0	5:15:13	1.3989	1242.12
724	0	5:15:49	1.4089	1242.23
729	0	5:16:25	1.4189	1242.34
734	0	5:17: 1	1.4289	1242.46
739	0	5:17:37	1.4388	1242.64
744	0	5:18:13	1.4488	1242.91
749	0	5:18:49	1.4589	1243.31
		END SHUTIN 1		
		START FLOW 2		
750	0	5:22:42	1.5238	289.30
755	0	5:23:18	1.5338	289.37
760	0	5:23:55	1.5438	287.77
765	0	5:24:31	1.5539	284.51
770	0	5:25: 7	1.5641	281.25
775	0	5:25:44	1.5742	277.15
780	0	5:26:20	1.5843	274.72
785	0	5:26:57	1.5944	272.29
790	0	5:27:33	1.6045	269.86
795	0	5:28: 9	1.6145	269.09
800	0	5:28:45	1.6245	267.49
805	0	5:29:22	1.6346	265.06

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22334 DST 2

[Monday: July 21, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
810	0	5:29:58	1.6447	264.30
815	0	5:30:34	1.6547	263.53
820	0	5:31:10	1.6647	261.93
825	0	5:31:46	1.6748	260.34
830	0	5:32:22	1.6848	260.40
835	0	5:32:58	1.6948	258.80
840	0	5:33:34	1.7049	258.04
845	0	5:34:10	1.7149	257.27
850	0	5:34:47	1.7249	256.51
855	0	5:35:23	1.7349	256.57
860	0	5:35:59	1.7449	255.81
865	0	5:36:35	1.7549	255.04
870	0	5:37:11	1.7650	254.28
875	0	5:37:47	1.7750	254.34
880	0	5:38:23	1.7850	254.41
885	0	5:38:59	1.7950	253.65
890	0	5:39:35	1.8050	252.88
895	0	5:40:11	1.8150	252.95
900	0	5:40:47	1.8250	253.01
905	0	5:41:23	1.8350	253.08
910	0	5:41:59	1.8449	253.15
915	0	5:42:35	1.8550	252.38
920	0	5:43:11	1.8650	251.62
925	0	5:43:47	1.8750	250.85
930	0	5:44:23	1.8850	250.92
935	0	5:44:59	1.8950	250.15
940	0	5:45:35	1.9050	251.05
945	0	5:46:11	1.9150	249.45
950	0	5:46:47	1.9250	250.35
955	0	5:47:23	1.9350	250.42
960	0	5:47:59	1.9450	249.65
965	0	5:48:35	1.9550	248.89
970	0	5:49:11	1.9651	248.12
975	0	5:49:47	1.9750	248.19
980	0	5:50:23	1.9851	247.42
985	0	5:50:59	1.9951	247.49
990	0	5:51:35	2.0051	247.56
995	0	5:52:11	2.0151	247.63
1000	0	5:52:47	2.0250	248.52
1005	0	5:53:23	2.0350	247.76
1010	0	5:53:59	2.0450	247.83
1015	0	5:54:35	2.0551	246.23
1020	0	5:55:11	2.0651	246.29
1025	0	5:55:47	2.0751	246.36
1030	0	5:56:23	2.0850	246.43
1035	0	5:56:59	2.0950	246.50
1040	0	5:57:35	2.1050	246.56
1045	0	5:58:11	2.1150	246.63
1050	0	5:58:47	2.1250	246.70
1055	0	5:59:23	2.1350	246.76
1060	0	5:59:59	2.1450	246.83
1065	0	6: 0:35	2.1550	246.90
1070	0	6: 1:11	2.1650	246.96
1075	0	6: 1:47	2.1750	247.03
1080	0	6: 2:23	2.1850	247.10

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22334 DST 2

[Monday: July 21, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1085	0	6: 2:59	2.2163	247.16
1090	0	6: 3:35	2.2263	247.23
1095	0	6: 4:11	2.2363	247.30
1100	0	6: 4:47	2.2463	247.37
1105	0	6: 5:23	2.2562	247.43
1110	0	6: 5:58	2.2662	247.50
1115	0	6: 6:34	2.2762	247.57
1120	0	6: 7:10	2.2862	247.63
1125	0	6: 7:47	2.2963	246.03
1130	0	6: 8:23	2.3063	246.10
1135	0	6: 8:59	2.3163	246.17
1140	0	6: 9:34	2.3262	246.24
1145	0	6:10:10	2.3362	246.30
1150	0	6:10:46	2.3462	246.37
1155	0	6:11:22	2.3562	246.44
1160	0	6:11:58	2.3662	246.50
1165	0	6:12:34	2.3762	246.57
1170	0	6:13:10	2.3862	246.64
1175	0	6:13:46	2.3962	246.70
1180	0	6:14:22	2.4062	246.77
1185	0	6:14:58	2.4162	246.84
1190	0	6:15:34	2.4262	246.90
1195	0	6:16:10	2.4361	246.97
1200	0	6:16:46	2.4461	247.75
1205	0	6:17:22	2.4560	249.60
1210	0	6:17:57	2.4659	251.45
1215	0	6:18:33	2.4759	252.23
1220	0	6:19: 8	2.4857	258.13
END FLOW 2				
START SHUTIN 2				
1225	0	6:19:42	2.4950	275.68
1230	0	6:20:15	2.5041	299.89
1236	0	6:20:48	2.5132	373.23
1244	0	6:21:20	2.5222	554.00
1254	0	6:21:52	2.5310	843.85
1259	0	6:22:22	2.5395	882.94
1264	0	6:22:53	2.5480	921.98
1269	0	6:23:24	2.5566	957.73
1274	0	6:23:55	2.5654	988.74
1279	0	6:24:28	2.5744	1013.77
1284	0	6:25: 1	2.5836	1033.58
1289	0	6:25:35	2.5930	1049.38
1294	0	6:26: 9	2.6025	1062.06
1299	0	6:26:44	2.6121	1072.18
1304	0	6:27:18	2.6218	1080.41
1309	0	6:27:53	2.6315	1087.33
1314	0	6:28:28	2.6412	1093.35
1319	0	6:29: 4	2.6510	1098.76
1324	0	6:29:39	2.6608	1103.71
1329	0	6:30:14	2.6706	1108.31
1334	0	6:30:50	2.6805	1112.60
1339	0	6:31:25	2.6903	1116.63
1344	0	6:32: 1	2.7001	1120.43
1349	0	6:32:36	2.7100	1124.00

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22334 DST 2

[Monday: July 21, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1354	0	6:33:11	2.7199	1127.38
1359	0	6:33:47	2.7297	1130.56
1364	0	6:34:23	2.7396	1133.56
1369	0	6:34:58	2.7495	1136.40
1374	0	6:35:34	2.7594	1139.09
1379	0	6:36: 9	2.7693	1141.65
1384	0	6:36:45	2.7792	1144.10
1389	0	6:37:21	2.7891	1146.43
1394	0	6:37:56	2.7990	1148.67
1399	0	6:38:32	2.8089	1150.83
1404	0	6:39: 8	2.8188	1153.33
1409	0	6:39:43	2.8287	1155.24
1414	0	6:40:19	2.8386	1157.14
1419	0	6:40:55	2.8485	1159.01
1424	0	6:41:30	2.8584	1160.84
1429	0	6:42: 6	2.8684	1162.62
1434	0	6:42:42	2.8783	1164.34
1439	0	6:43:18	2.8882	1165.98
1444	0	6:43:53	2.8981	1167.53
1449	0	6:44:29	2.9081	1168.99
1454	0	6:45: 5	2.9180	1170.35
1459	0	6:45:41	2.9280	1171.64
1464	0	6:46:16	2.9379	1172.85
1469	0	6:46:52	2.9478	1174.00
1474	0	6:47:28	2.9578	1175.11
1479	0	6:48: 4	2.9678	1176.18
1484	0	6:48:40	2.9777	1177.23
1489	0	6:49:16	2.9877	1178.25
1494	0	6:49:51	2.9976	1179.26
1499	0	6:50:27	3.0076	1180.25
1504	0	6:51: 3	3.0175	1181.23
1509	0	6:51:39	3.0275	1182.21
1514	0	6:52:15	3.0374	1183.17
1519	0	6:52:51	3.0474	1184.14
1524	0	6:53:26	3.0573	1185.10
1529	0	6:54: 2	3.0673	1185.54
1534	0	6:54:38	3.0773	1186.35
1539	0	6:55:14	3.0872	1187.15
1544	0	6:55:50	3.0972	1187.94
1549	0	6:56:26	3.1072	1188.71
1554	0	6:57: 2	3.1171	1189.48
1559	0	6:57:38	3.1271	1190.23
1564	0	6:58:13	3.1370	1190.98
1569	0	6:58:49	3.1470	1191.71
1574	0	6:59:25	3.1570	1192.43
1579	0	7: 0: 1	3.1669	1193.14
1584	0	7: 0:37	3.1769	1193.84
1589	0	7: 1:13	3.1869	1194.53
1594	0	7: 1:49	3.1969	1195.22
1599	0	7: 2:25	3.2068	1195.89
1604	0	7: 3: 0	3.2168	1196.55
1609	0	7: 3:36	3.2267	1197.21
1614	0	7: 4:12	3.2367	1197.86
1619	0	7: 4:48	3.2467	1198.51
1624	0	7: 5:24	3.2566	1199.15

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22334 DST 2

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1629	0	7: 6: 0	3.2666	1199.78
1634	0	7: 6:36	3.2766	1200.40
1639	0	7: 7:12	3.2866	1201.02
1644	0	7: 7:47	3.2965	1201.63
1649	0	7: 8:23	3.3065	1202.24
1654	0	7: 8:59	3.3165	1202.84
1659	0	7: 9:35	3.3264	1203.44
1664	0	7:10:11	3.3364	1204.03
1669	0	7:10:47	3.3464	1204.61
1674	0	7:11:23	3.3563	1205.19
1679	0	7:11:59	3.3663	1205.77
1684	0	7:12:35	3.3763	1206.34
1689	0	7:13:11	3.3863	1206.90
1694	0	7:13:46	3.3962	1207.46
1699	0	7:14:22	3.4062	1208.01
1704	0	7:14:58	3.4162	1208.56
1709	0	7:15:34	3.4261	1209.10
1714	0	7:16:10	3.4361	1209.64
1719	0	7:16:46	3.4461	1210.17
1724	0	7:17:22	3.4560	1210.69
1729	0	7:17:58	3.4660	1211.21
1734	0	7:18:34	3.4760	1211.73
1739	0	7:19: 9	3.4860	1212.23
1744	0	7:19:45	3.4959	1212.74
1749	0	7:20:21	3.5059	1213.23
1754	0	7:20:57	3.5159	1213.72
1759	0	7:21:33	3.5259	1214.20
1764	0	7:22: 9	3.5358	1214.67
1769	0	7:22:45	3.5458	1215.13
1774	0	7:23:21	3.5558	1215.59
1779	0	7:23:57	3.5658	1216.04
1784	0	7:24:33	3.5757	1216.48
1789	0	7:25: 9	3.5857	1216.90
1794	0	7:25:44	3.5957	1217.32
1799	0	7:26:20	3.6057	1217.73
1804	0	7:26:56	3.6156	1218.13
1809	0	7:27:32	3.6256	1218.52
1814	0	7:28: 8	3.6356	1218.90
1819	0	7:28:44	3.6456	1219.26
1824	0	7:29:20	3.6556	1219.62
1829	0	7:29:56	3.6655	1219.97
1834	0	7:30:32	3.6755	1220.30
1839	0	7:31: 8	3.6855	1220.62
1844	0	7:31:44	3.6955	1220.93
1849	0	7:32:20	3.7055	1221.23
1854	0	7:32:56	3.7154	1221.52
1859	0	7:33:32	3.7254	1221.79
1864	0	7:34: 7	3.7354	1222.06
1869	0	7:34:43	3.7454	1222.31
1874	0	7:35:19	3.7554	1222.56
1879	0	7:35:55	3.7654	1222.79
1884	0	7:36:31	3.7753	1223.02
1889	0	7:37: 7	3.7853	1223.23
1894	0	7:37:43	3.7953	1223.44
1899	0	7:38:19	3.8053	1223.65

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22334 DST 2

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1904	0	7:38:55	3.8153	1223.84
1909	0	7:39:31	3.8253	1224.03
1914	0	7:40: 7	3.8352	1224.22
1919	0	7:40:43	3.8452	1224.40
1924	0	7:41:19	3.8552	1225.48
1929	0	7:41:55	3.8652	1225.58
1934	0	7:42:31	3.8752	1225.69
1939	0	7:43: 7	3.8852	1225.80
1944	0	7:43:43	3.8951	1225.90
1949	0	7:44:18	3.9051	1226.01
1954	0	7:44:54	3.9151	1226.11
1959	0	7:45:30	3.9251	1226.22
1964	0	7:46: 6	3.9351	1226.33
1969	0	7:46:42	3.9451	1226.44
1974	0	7:47:18	3.9551	1226.56
1979	0	7:47:54	3.9651	1226.67
1984	0	7:48:30	3.9750	1226.79
1989	0	7:49: 6	3.9850	1226.90
1994	0	7:49:42	3.9950	1227.02
1999	0	7:50:18	4.0050	1227.14
2004	0	7:50:54	4.0150	1227.26
2009	0	7:51:30	4.0250	1227.38
2014	0	7:52: 6	4.0350	1227.51
2019	0	7:52:42	4.0450	1227.63
2024	0	7:53:18	4.0550	1227.76
2029	0	7:53:54	4.0649	1227.89
2034	0	7:54:30	4.0749	1228.02
2039	0	7:55: 6	4.0849	1228.15
2044	0	7:55:42	4.0949	1228.29
2049	0	7:56:18	4.1049	1228.42
2054	0	7:56:54	4.1149	1228.55
2059	0	7:57:30	4.1249	1228.69
2064	0	7:58: 5	4.1349	1228.83
2069	0	7:58:41	4.1448	1228.96
2074	0	7:59:17	4.1548	1229.10
2079	0	7:59:53	4.1648	1229.24
2084	0	8: 0:29	4.1748	1229.37
2089	0	8: 1: 5	4.1848	1229.51
2094	0	8: 1:41	4.1948	1229.65
2099	0	8: 2:17	4.2048	1229.78
2104	0	8: 2:53	4.2148	1229.92
2109	0	8: 3:29	4.2248	1230.05
2114	0	8: 4: 5	4.2347	1230.19
2119	0	8: 4:41	4.2447	1230.32
2124	0	8: 5:17	4.2547	1230.45
2129	0	8: 5:53	4.2647	1230.58
2134	0	8: 6:29	4.2747	1230.71
2139	0	8: 7: 5	4.2847	1230.84
2144	0	8: 7:41	4.2947	1230.96
2149	0	8: 8:17	4.3046	1231.09
2154	0	8: 8:53	4.3146	1231.21
2159	0	8: 9:29	4.3246	1231.33
2164	0	8:10: 5	4.3346	1231.44
2169	0	8:10:41	4.3446	1231.56
2174	0	8:11:17	4.3546	1231.67

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22334 DST 2

[Monday: July 21, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
2179	0	8:11:52	4.3646	1231.77
2184	0	8:12:28	4.3746	1231.88
2189	0	8:13: 4	4.3846	1231.98
2194	0	8:13:40	4.3945	1232.08
2199	0	8:14:16	4.4045	1232.17
2204	0	8:14:52	4.4145	1232.27
2209	0	8:15:28	4.4245	1232.36
2214	0	8:16: 4	4.4345	1232.45
2219	0	8:16:40	4.4445	1232.53
2224	0	8:17:16	4.4545	1232.62
2229	0	8:17:52	4.4645	1232.70
2234	0	8:18:28	4.4745	1232.79
2239	0	8:19: 4	4.4845	1232.87
2244	0	8:19:40	4.4945	1232.95
2249	0	8:20:16	4.5044	1233.03
2254	0	8:20:52	4.5144	1233.11
2259	0	8:21:28	4.5244	1233.19
2264	0	8:22: 4	4.5344	1233.28
2269	0	8:22:40	4.5444	1233.36
2274	0	8:23:16	4.5544	1233.45
2279	0	8:23:52	4.5644	1233.54
2284	0	8:24:28	4.5744	1233.63
2289	0	8:25: 4	4.5844	1233.72
2294	0	8:25:40	4.5943	1233.82
2299	0	8:26:16	4.6043	1233.92
2304	0	8:26:52	4.6143	1234.02
2309	0	8:27:28	4.6243	1234.12
2314	0	8:28: 3	4.6343	1234.22
2319	0	8:28:39	4.6443	1234.71
2324	0	8:29:15	4.6543	1234.78
2329	0	8:29:51	4.6642	1234.84
2334	0	8:30:27	4.6742	1234.91
2339	0	8:31: 3	4.6842	1234.97
2344	0	8:31:39	4.6942	1235.04
2349	0	8:32:15	4.7042	1235.11
2354	0	8:32:51	4.7142	1235.18
2359	0	8:33:27	4.7242	1235.27
2364	0	8:34: 3	4.7342	1235.39
2369	0	8:34:39	4.7442	1235.56
2374	0	8:35:15	4.7541	1235.82
2379	0	8:35:51	4.7641	1236.18

WESTERN TESTING CO., INC.

DST REPORT

GENERAL INFORMATION

DATE : 7/22/97	TICKET : 22335
CUSTOMER : BERGMAN OIL	LEASE : MAUDIE REIDA
WELL : #4	GEOLOGIST: TRAPP
ELEVATION: 1425 GL	FORMATION: VIOLA/SIMPSON
SECTION : 18	TOWNSHIP : 30S
RANGE : 6W	STATE : KS
GAUGE SN#: 1562	CLOCK : 12
TEST: 3	
COUNTY: KINGMAN	
RANGE : 3900	

WELL INFORMATION

PERFORATION INTERVAL FROM: 4483.00 ft	TO: 4510.00 ft	TVD: 4510.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: GAS
DEPTH OF RECORDERS: 4495.0 ft	4498.0 ft	
TEMPERATURE: 0.0		
DRILL COLLAR LENGTH: 480.0 ft	I.D.: 2.250 in	
WEIGHT PIPE LENGTH : 0.0 ft	I.D.: 0.000 in	
DRILL PIPE LENGTH : 3976.0 ft	I.D.: 3.800 in	
TEST TOOL LENGTH : 27.0 ft	TOOL SIZE : 5.500 in	
ANCHOR LENGTH : 27.0 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: 4478.0 ft	SIZE: 6.630 in	
PACKER DEPTH: 4483.0 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. : DUKE RIG 5	VISCOSITY : 46.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 13.200 cc
WEIGHT : 9.500 ppg	SERIAL NUMBER: 411
CHLORIDES : 5000 ppm	REVERSED OUT?: NO
JARS-MAKE : WTC	
DID WELL FLOW?: NO	

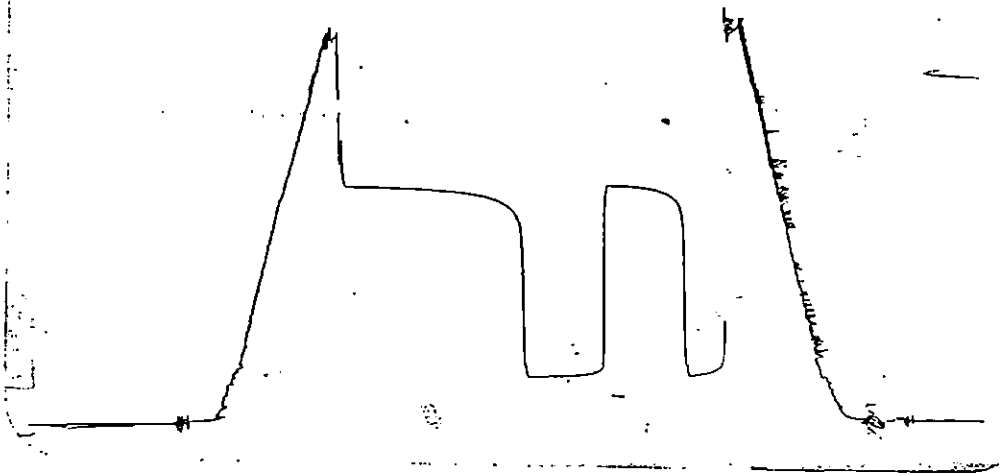
COMMENTS

Comment

MISRUN.
HIT BRIDGE 21 STANDS OFF BOTTOM.

1302
D5#2
top

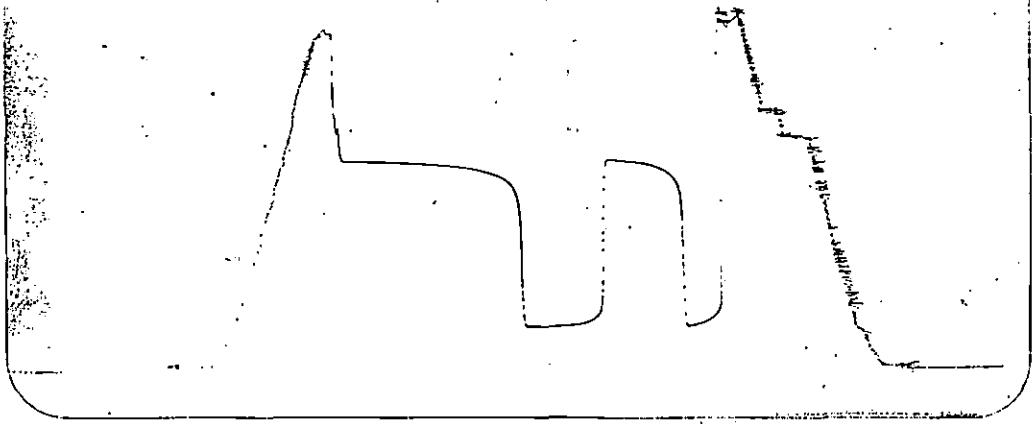
K4 2/2/24



Inside Recorder

1321
D5#2
bottom

K4 2/2/24



Outside Recorder

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
No Data Entered					

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	No Events Created
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0000 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 0.00

Description	Duration	p1	p End
INITIAL FLOW	0.00	0.00	0.00
INITIAL SHUT-IN	0.00		0.00
FINAL FLOW	0.00	0.00	0.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 0.00

OFFICE TIME & PRESSURE INFORMATION

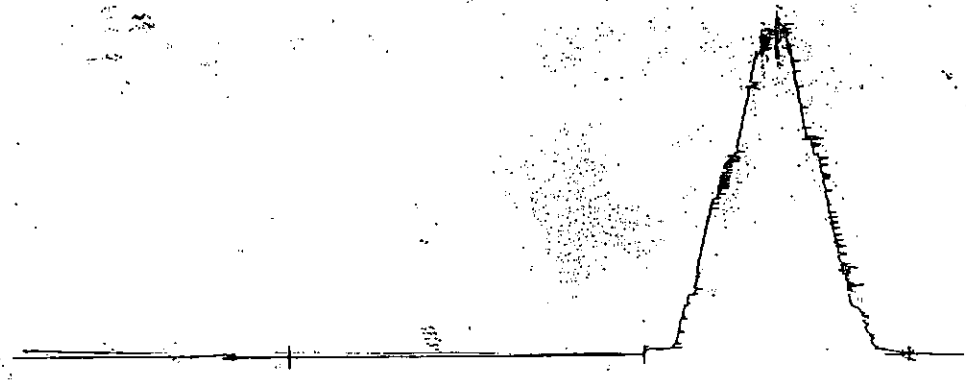
INITIAL HYDROSTATIC PRESSURE: 0.00

Description	Duration	p1	p End
INITIAL FLOW	0.00	0.00	0.00
INITIAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 0.00

1462
Dsk #3
TOP

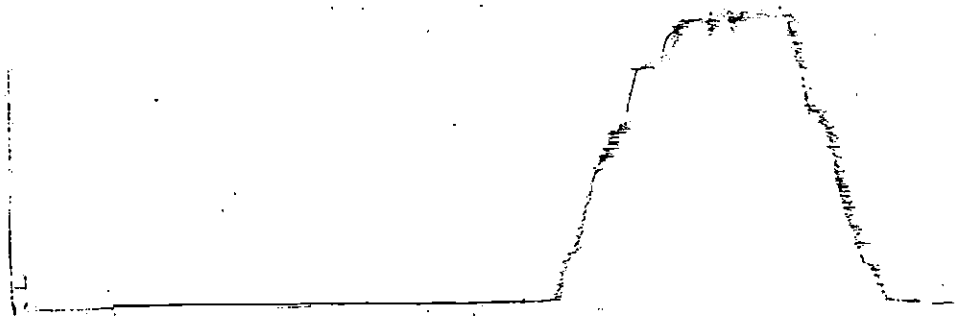
KT JESS



Inside Recorder

13221
Dsk #3
Bottom

KT JESS



DST REPORT

GENERAL INFORMATION

DATE : 7/22/97 TICKET : 22336
CUSTOMER : BERGMAN OIL LEASE : MAUDIE REIDA
WELL : #4 TEST: 4 GEOLOGIST: TRAPP
ELEVATION: 1425 GL FORMATION: VIOLA/SIMPSON
SECTION : 18 TOWNSHIP : 30S
RANGE : 6W COUNTY: KINGMAN STATE : KS
GAUGE SN#: 1562 RANGE : 3900 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4483.00 ft TO: 4510.00 ft TVD: 4510.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 4495.0 ft 4498.0 ft
TEMPERATURE: 120.0

DRILL COLLAR LENGTH: 480.0 ft I.D.: 2.250 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3976.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 27.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 27.0 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: 4478.0 ft SIZE: 6.630 in
PACKER DEPTH: 4483.0 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. : DUKE RIG 5
MUD TYPE : CHEMICAL VISCOSITY : 49.00 cp
WEIGHT : 9.500 ppg WATER LOSS: 13.200 cc
CHLORIDES : 4800 ppm
JARS-MAKE : WTC SERIAL NUMBER: 411
DID WELL FLOW?: YES REVERSED OUT?: YES

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW OFF BOTTOM OF
BUCKET IN 2 MINUTES. GAS TO SURFACE IN 9 MINUTES.
FINAL FLOW PERIOD SALTWATER TO SURFACE IN 21

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

MINUTES. SEE GAS REPORT.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
4000.0	0.0	0.0	100.0	0.0	GAS CUT SALTWATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 120000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	45.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.0000 STB	AVERAGE WATER RATE:	1655.4611 STB/D
WATER VOLUME:	51.7332 STB		
TOTAL FLUID :	51.7332 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2280.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	748.00	1173.00
INITIAL SHUT-IN	60.00		1737.00
FINAL FLOW	15.00	1173.00	1282.00
FINAL SHUT-IN	60.00		1707.00

FINAL HYDROSTATIC PRESSURE: 2260.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2284.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	928.39	1170.04
INITIAL SHUT-IN	60.00		1709.38
FINAL FLOW	15.00	1170.61	1259.75
FINAL SHUT-IN	60.00		1709.38

FINAL HYDROSTATIC PRESSURE: 2231.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 7/22/97	TICKET : 22336
CUSTOMER : BERGMAN OIL	LEASE : MAUDIE REIDA
WELL : #4	TEST: 4
ELEVATION: 1425 GL	GEOLOGIST: TRAPP
SECTION : 18	FORMATION: VIOLA/SIMPSON
RANGE : 6W	TOWNSHIP : 30S
COUNTY: KINGMAN	STATE : KS
GAUGE SN#: 1562	RANGE : 3900
	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.500	17" WATER	287000 SCF/D
15 MIN	MERLA	1.500	17" WATER	287000 SCF/D
21 MIN	MERLA	1.500	14" WATER	260000 SCF/D
		0.000	S/WTR IN 21	0 SCF/D
		0.000	MINUTES	0 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.

Company: BERGMAN OIL
Well: MAUDIE REIDA #4
Field: TKT 22336 DST 4

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)

START FLOW 1				
1	0	21:45:00	0.0000	928.39
6	0	21:45:36	0.0100	928.39
11	0	21:46:12	0.0200	927.56
16	0	21:46:48	0.0300	926.17
21	0	21:47:24	0.0400	925.73
26	0	21:48:00	0.0500	925.16
31	0	21:48:36	0.0600	925.28
36	0	21:49:12	0.0699	926.04
41	0	21:49:48	0.0799	927.39
46	0	21:50:24	0.0899	930.09
51	0	21:51:00	0.0999	933.34
56	0	21:51:36	0.1099	936.93
61	0	21:52:12	0.1199	940.98
66	0	21:52:48	0.1299	946.37
71	0	21:53:24	0.1399	951.78
76	0	21:54:00	0.1499	958.22
81	0	21:54:36	0.1599	964.74
86	0	21:55:11	0.1699	971.35
91	0	21:55:47	0.1798	978.11
96	0	21:56:23	0.1898	985.06
101	0	21:56:59	0.1998	992.15
106	0	21:57:35	0.2098	999.33
111	0	21:58:11	0.2198	1006.41
116	0	21:58:47	0.2298	1013.45
121	0	21:59:23	0.2398	1020.46
126	0	21:59:59	0.2498	1027.46
131	0	22:00:35	0.2598	1034.47
136	0	22:01:11	0.2698	1041.51
141	0	22:01:47	0.2798	1048.63
146	0	22:02:23	0.2898	1055.98
151	0	22:02:59	0.2998	1063.71
156	0	22:03:35	0.3097	1071.55
161	0	22:04:11	0.3197	1079.05
166	0	22:04:47	0.3297	1086.71
171	0	22:05:23	0.3397	1094.76
176	0	22:05:59	0.3497	1103.07
181	0	22:06:35	0.3597	1111.52
186	0	22:07:11	0.3697	1120.06
191	0	22:07:47	0.3797	1128.63
196	0	22:08:23	0.3897	1142.04
201	0	22:08:59	0.3997	1145.23
206	0	22:09:35	0.4097	1154.11
211	0	22:10:11	0.4196	1162.35
216	0	22:10:47	0.4296	1170.04
END FLOW 1				
START SHUTIN 1				
220	0	22:11:16	0.4376	1186.12
221	0	22:11:23	0.4396	1193.47
226	0	22:11:59	0.4496	1262.04
231	0	22:12:35	0.4596	1428.56
236	0	22:13:11	0.4696	1606.55
241	0	22:13:47	0.4796	1617.39
246	0	22:14:23	0.4896	1625.03
251	0	22:14:58	0.4996	1631.36

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
256	0	22:15:34	0.5096	1636.79
261	0	22:16:10	0.5196	1641.46
266	0	22:16:46	0.5296	1645.62
271	0	22:17:22	0.5396	1649.54
276	0	22:17:58	0.5495	1653.31
281	0	22:18:34	0.5595	1656.80
286	0	22:19:10	0.5695	1659.85
291	0	22:19:46	0.5795	1662.39
296	0	22:20:22	0.5895	1664.61
301	0	22:20:58	0.5995	1666.71
306	0	22:21:34	0.6095	1668.97
311	0	22:22:10	0.6195	1671.01
316	0	22:22:46	0.6295	1673.05
321	0	22:23:22	0.6395	1674.97
326	0	22:23:58	0.6495	1676.61
331	0	22:24:34	0.6594	1678.07
336	0	22:25:10	0.6694	1679.44
341	0	22:25:46	0.6794	1680.58
346	0	22:26:22	0.6894	1681.92
351	0	22:26:58	0.6994	1683.18
356	0	22:27:34	0.7094	1684.34
361	0	22:28:10	0.7194	1685.40
366	0	22:28:46	0.7294	1686.37
371	0	22:29:22	0.7394	1687.25
376	0	22:29:58	0.7494	1688.06
381	0	22:30:34	0.7594	1688.81
386	0	22:31:10	0.7694	1689.51
391	0	22:31:46	0.7793	1690.16
396	0	22:32:22	0.7893	1690.78
401	0	22:32:58	0.7993	1691.38
406	0	22:33:34	0.8093	1691.95
411	0	22:34:10	0.8193	1692.50
416	0	22:34:46	0.8293	1693.03
421	0	22:35:21	0.8393	1693.55
426	0	22:35:57	0.8493	1694.07
431	0	22:36:33	0.8593	1694.57
436	0	22:37: 9	0.8693	1695.07
441	0	22:37:45	0.8793	1695.56
446	0	22:38:21	0.8893	1696.04
451	0	22:38:57	0.8992	1696.52
456	0	22:39:33	0.9092	1697.00
461	0	22:40: 9	0.9192	1697.48
466	0	22:40:45	0.9292	1697.95
471	0	22:41:21	0.9392	1698.42
476	0	22:41:57	0.9492	1698.88
481	0	22:42:33	0.9592	1699.34
486	0	22:43: 9	0.9692	1699.79
491	0	22:43:45	0.9792	1700.23
496	0	22:44:21	0.9892	1700.67
501	0	22:44:57	0.9992	1701.09
506	0	22:45:33	1.0092	1701.51
511	0	22:46: 9	1.0192	1701.92
516	0	22:46:45	1.0291	1702.31
521	0	22:47:21	1.0391	1702.69
526	0	22:47:57	1.0491	1703.05

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
531	0	22:48:33	1.0591	1703.39
536	0	22:49: 9	1.0691	1703.72
541	0	22:49:45	1.0791	1704.03
546	0	22:50:21	1.0891	1704.32
551	0	22:50:57	1.0991	1704.60
556	0	22:51:33	1.1091	1704.87
561	0	22:52: 9	1.1191	1705.12
566	0	22:52:45	1.1291	1705.36
571	0	22:53:21	1.1391	1705.59
576	0	22:53:57	1.1490	1705.82
581	0	22:54:33	1.1590	1706.04
586	0	22:55: 9	1.1690	1706.27
591	0	22:55:44	1.1790	1706.49
596	0	22:56:20	1.1890	1706.72
601	0	22:56:56	1.1990	1706.94
606	0	22:57:32	1.2090	1707.15
611	0	22:58: 8	1.2190	1707.36
616	0	22:58:44	1.2290	1707.56
621	0	22:59:20	1.2390	1707.74
626	0	22:59:56	1.2490	1707.90
631	0	23: 0:32	1.2589	1708.05
636	0	23: 1: 8	1.2689	1708.18
641	0	23: 1:44	1.2789	1708.29
646	0	23: 2:20	1.2889	1708.37
651	0	23: 2:56	1.2989	1708.44
656	0	23: 3:32	1.3089	1708.49
661	0	23: 4: 8	1.3189	1708.52
666	0	23: 4:44	1.3289	1708.54
671	0	23: 5:20	1.3389	1708.55
676	0	23: 5:56	1.3489	1708.56
681	0	23: 6:32	1.3589	1708.56
686	0	23: 7: 8	1.3689	1708.56
691	0	23: 7:44	1.3788	1708.58
696	0	23: 8:20	1.3888	1708.67
701	0	23: 8:56	1.3988	1708.90
706	0	23: 9:32	1.4088	1709.23
711	0	23:10: 8	1.4188	1709.38
716	0	23:10:44	1.4288	1709.38
		END SHUTIN 1		
		START FLOW 2		
717	0	23:13:44	1.4788	1170.61
722	0	23:14:20	1.4888	1170.61
727	0	23:14:56	1.4987	1170.61
732	0	23:15:31	1.5087	1170.61
737	0	23:16: 7	1.5187	1170.61
742	0	23:16:43	1.5287	1170.98
747	0	23:17:19	1.5387	1173.00
752	0	23:17:55	1.5487	1175.76
757	0	23:18:31	1.5587	1178.95
762	0	23:19: 7	1.5687	1182.93
767	0	23:19:43	1.5787	1187.86
772	0	23:20:19	1.5887	1193.41
777	0	23:20:55	1.5987	1199.26
782	0	23:21:31	1.6087	1207.96
787	0	23:22: 7	1.6186	1214.16

WESTERN TESTING CO., INC.

Company: BERGMAN OIL
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
792	0	23:22:43	1.6286	1220.35
797	0	23:23:19	1.6386	1226.61
802	0	23:23:55	1.6486	1233.14
807	0	23:24:31	1.6586	1239.67
812	0	23:25: 7	1.6686	1246.20
817	0	23:25:43	1.6786	1252.81
822	0	23:26:19	1.6886	1259.75
		END FLOW 2		
		START SHUTIN 2		
827	0	23:26:55	1.6986	1275.10
832	0	23:27:31	1.7086	1305.42
837	0	23:28: 7	1.7186	1360.02
842	0	23:28:43	1.7286	1457.10
847	0	23:29:19	1.7385	1630.01
852	0	23:29:55	1.7485	1639.67
857	0	23:30:31	1.7585	1646.69
862	0	23:31: 7	1.7685	1651.89
867	0	23:31:43	1.7785	1655.96
872	0	23:32:19	1.7885	1659.38
877	0	23:32:55	1.7985	1662.42
882	0	23:33:31	1.8085	1665.17
887	0	23:34: 7	1.8185	1667.72
892	0	23:34:43	1.8285	1670.10
897	0	23:35:18	1.8385	1672.33
902	0	23:35:54	1.8485	1674.43
907	0	23:36:30	1.8585	1676.40
912	0	23:37: 6	1.8684	1678.24
917	0	23:37:42	1.8784	1679.94
922	0	23:38:18	1.8884	1681.52
927	0	23:38:54	1.8984	1684.07
932	0	23:39:30	1.9084	1684.38
937	0	23:40: 6	1.9184	1685.48
942	0	23:40:42	1.9284	1686.22
947	0	23:41:18	1.9384	1686.97
952	0	23:41:54	1.9484	1687.71
957	0	23:42:30	1.9584	1688.46
962	0	23:43: 6	1.9684	1689.21
967	0	23:43:42	1.9784	1689.96
972	0	23:44:18	1.9883	1690.71
977	0	23:44:54	1.9983	1691.46
982	0	23:45:30	2.0083	1692.20
987	0	23:46: 6	2.0183	1692.92
992	0	23:46:42	2.0283	1693.61
997	0	23:47:18	2.0383	1694.25
1002	0	23:47:54	2.0483	1694.85
1007	0	23:48:30	2.0583	1695.41
1012	0	23:49: 6	2.0683	1695.92
1017	0	23:49:42	2.0783	1696.41
1022	0	23:50:18	2.0883	1696.88
1027	0	23:50:54	2.0982	1697.35
1032	0	23:51:30	2.1082	1697.82
1037	0	23:52: 6	2.1182	1698.29
1042	0	23:52:42	2.1282	1698.73
1047	0	23:53:18	2.1382	1699.16
1052	0	23:53:54	2.1482	1699.55

WESTERN TESTING CO., INC.

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1057	0	23:54:30	2.1582	1699.93
1062	0	23:55: 5	2.1682	1700.28
1067	0	23:55:41	2.1782	1700.61
1072	0	23:56:17	2.1882	1700.93
1077	0	23:56:53	2.1982	1701.22
1082	0	23:57:29	2.2082	1701.50
1087	0	23:58: 5	2.2181	1701.77
1092	0	23:58:41	2.2281	1702.00
1097	0	23:59:17	2.2381	1702.22
1102	0	23:59:53	2.2481	1702.42
[Wednesday: July 23, 1997]				
1107	1	0: 0:29	2.2581	1702.59
1112	1	0: 1: 5	2.2681	1702.75
1117	1	0: 1:41	2.2781	1703.66
1122	1	0: 2:17	2.2881	1703.66
1127	1	0: 2:53	2.2981	1703.66
1132	1	0: 3:29	2.3081	1703.81
1137	1	0: 4: 5	2.3181	1703.99
1142	1	0: 4:41	2.3281	1704.14
1147	1	0: 5:17	2.3380	1704.48
1152	1	0: 5:53	2.3480	1704.62
1157	1	0: 6:29	2.3580	1704.76
1162	1	0: 7: 5	2.3680	1704.92
1167	1	0: 7:41	2.3780	1705.10
1172	1	0: 8:17	2.3880	1705.31
1177	1	0: 8:53	2.3980	1705.55
1182	1	0: 9:29	2.4080	1706.11
1187	1	0:10: 5	2.4180	1706.24
1192	1	0:10:41	2.4280	1706.37
1197	1	0:11:17	2.4380	1706.50
1202	1	0:11:53	2.4480	1706.62
1207	1	0:12:29	2.4580	1706.73
1212	1	0:13: 5	2.4679	1706.82
1217	1	0:13:41	2.4779	1706.89
1222	1	0:14:17	2.4879	1706.95
1227	1	0:14:53	2.4979	1707.02
1232	1	0:15:28	2.5079	1707.13
1237	1	0:16: 4	2.5179	1707.28
1242	1	0:16:40	2.5279	1707.45
1247	1	0:17:16	2.5379	1707.63
1252	1	0:17:52	2.5479	1707.34
1257	1	0:18:28	2.5579	1707.44
1262	1	0:19: 4	2.5679	1707.53
1267	1	0:19:40	2.5779	1707.61
1272	1	0:20:16	2.5879	1707.67
1277	1	0:20:52	2.5978	1707.70
1282	1	0:21:28	2.6078	1707.73
1287	1	0:22: 4	2.6178	1707.74
1292	1	0:22:40	2.6278	1707.74
1297	1	0:23:16	2.6378	1707.74
1302	1	0:23:52	2.6478	1708.43
1307	1	0:24:28	2.6578	1708.48
1312	1	0:25: 4	2.6678	1708.52
1317	1	0:25:40	2.6778	1708.54
1322	1	0:26:16	2.6878	1708.55

WESTERN TESTING CO., INC.

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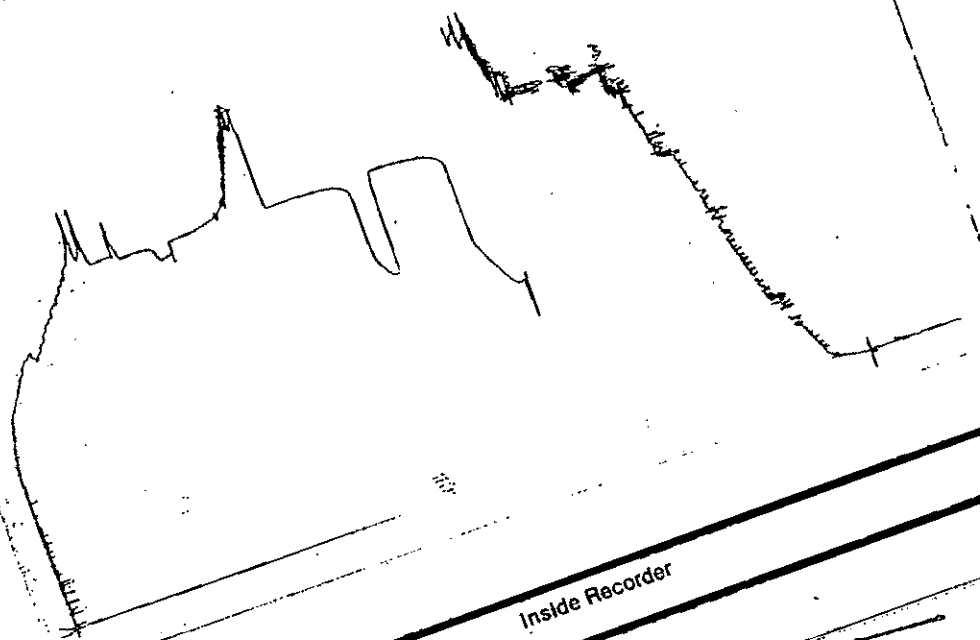
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1327	1	0:26:52	2.6978	1708.56
1332	1	0:27:28	2.7077	1708.56
1337	1	0:28: 4	2.7177	1708.56
1342	1	0:28:40	2.7277	1708.56
1347	1	0:29:16	2.7377	1708.56
1352	1	0:29:52	2.7477	1708.56
1357	1	0:30:28	2.7577	1708.56
1362	1	0:31: 4	2.7677	1708.56
1367	1	0:31:40	2.7777	1708.56
1372	1	0:32:16	2.7877	1708.56
1377	1	0:32:52	2.7977	1708.56
1382	1	0:33:28	2.8077	1708.56
1387	1	0:34: 4	2.8177	1708.56
1392	1	0:34:40	2.8276	1709.38

WESTERN TESTING CO., INC.

1562
Dox #4
100

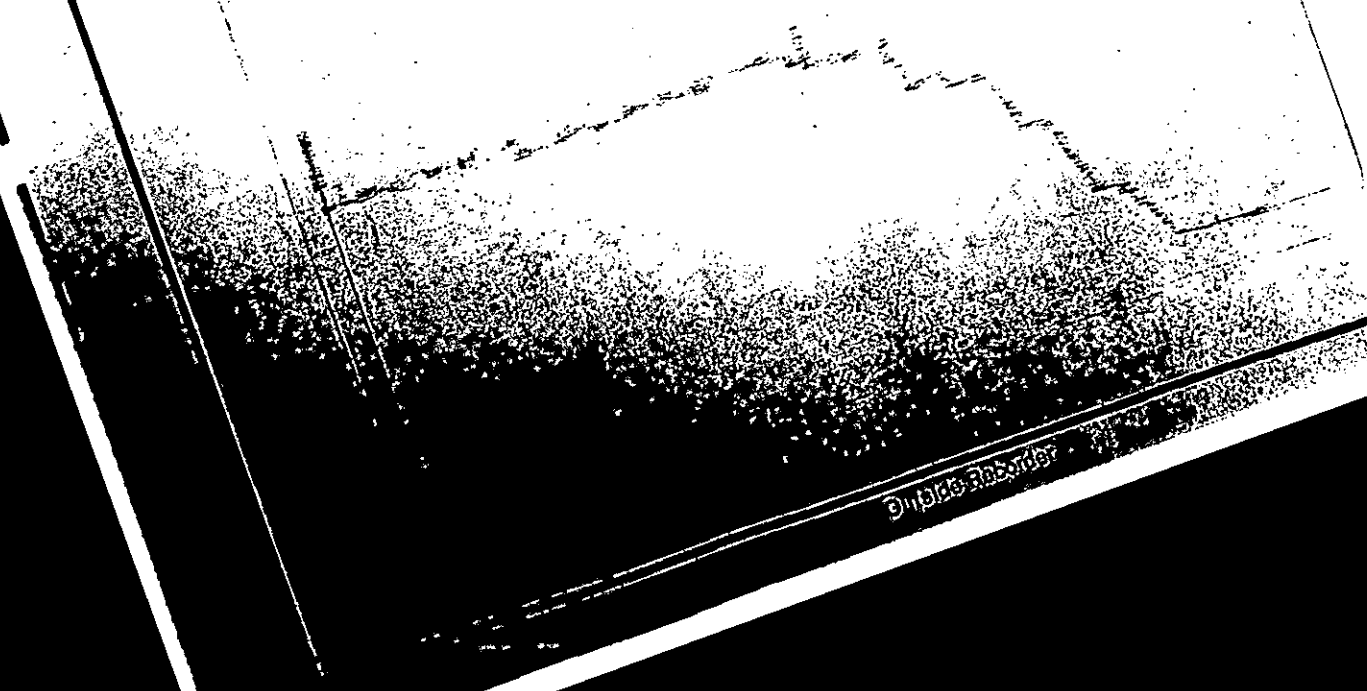
KT 22336



Inside Recorder

19721
Dox #4
Bottom

KT 22336



Inside Recorder