

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

API NO. 15- 193-20,652 ⁰⁰⁻⁰⁰ ORIGINAL

County Thomas

C. SE. NW. Sec. 11 Twp. 6S Rge. 33W ^E _W

1980 Feet from S/N (circle one) Line of Section

1980 Feet from E/W (circle one) Line of Section

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

Lease Name E. Shughart Well # 2

Field Name _____

Producing Formation L/KC

Elevation: Ground 3098 KB 3103

Total Depth 4570 PBTD 4222

Amount of Surface Pipe Set and Cemented at 273 Feet

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set 2678 Feet

If Alternate II completion, cement circulated from 2678

feet depth to surface w/ 600 sx cmt.

Drilling Fluid Management Plan ALT 2 JH 11-27-96
(Data must be collected from the Reserve Pit)

Chloride content 5,400 ppm Fluid volume 600 bbls

Dewatering method used evaporation

Location of fluid disposal hauled offsite:

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 4767

Name: Ritchie Exploration, Inc.

Address 125 N. Market, Suite 1000

City/State/Zip Wichita, KS 67202

Purchaser: Koch Oil

Operator Contact Person: Lisa Thimmesch

Phone (316) 267-4375

Contractor: Name: White & Ellis Drilling

License: 5420

Wellsite Geologist: J. Christian

Designate Type of Completion
X New Well Re-Entry Workover

X Oil SWD SLOW Temp. Abd.
 Gas EXHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Tool _____

 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

6-13-96 6-22-96 7-26-96

Spud Date Date Reached TD Completion Date

FROM CONFIDENTIAL

NOV 3
CONFIDENTIAL

10-4-97

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 [Signature]

Title President Date 10/3/96

Subscribed and sworn to before me this 3rd day of October 19 96

Notary Public [Signature]

Date Commission Expires _____

LISA THIMMESCH
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 8-29-99

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep XGPA
 KGS Plug Other
(Specify)

Operator Name Ritchie Exploration, Inc. Lease Name E. Shughart Well # _____

Sec. 11 Twp. 6 Rge. 33W East West County Thomas

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 (Submit Copy.) Yes No

List All E.Logs Run:
 Compensated Neutron Compensated Photo Density Log
 Array Induction Shallow Focused Electric Log
 Gamma Ray Correlation Log

Log Formation (Top), Depth and Datum Sample Name Top Datum
 See attached sheet

CASING RECORD <input type="checkbox"/> New <input checked="" 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"		273	60/40 poz	165	2% gel 3% CC
production	7 7/8"	4 1/2"		4282.4	60/40 poz	225	10% salt 5% ge

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3	4157'-4166' L/KC	1000 gal 15% NE &	4157-66'
		1000 gal 28% NE	

TUBING RECORD Size 2 3/8" Set At 4185 Packer At N/A Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 7-26-96 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 3 BO Bbls. Gas 3 BW Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval 4157'-4166'

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

RITCHIE EXPLORATION, INC.

125 N. Market - Suite 1000
Wichita, Kansas 67202-1775
316-267-4375 FAX 316-267-3026

ORIGINAL

#2 E. Shughart
C SE NW
Section 11-6S-33W
Thomas County, Kansas
API# 15-193-20,652
White & Ellis Rig #8
Elevation: 3098' GL 3103' KB

CONFIDENTIAL

Log Tops

Anhydrite	2706'+(397)
B/Anhy	2739'+(364)
Topeka	3724'+(-621)
Heebner	3949'+(-846)
Toronto	3979'+(-876)
Lansing	3997'+(-894)
Stark	4170'+(-1067)
B/KC	4233'+(-1130)
Marmaton	4244'+(-1141)
Pawnee	4361'+(-1258)
Fort Scott	4419'+(-1316)
Cher Sh	4438'+(-1335)
Cher Lm	4462'+(-1359)
LTD	4506'+(-1403)

PLEASE KEEP THIS
INFORMATION
CONFIDENTIAL

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

RCC
OCT 3
CONFIDENTIAL

DST #1 from 4014' to 4030' Straddle test (20' of tail pipe) (L/KC "C" zone). Recovered 20' of mud with a show of oil.

IFP:20-20#/30"; ISIP:1257#/45";
FFP:31-31#/30"; FSIP:1236#/45".

DST #2 from 4048' to 4077' (L/KC "F" zone) Recovered 1' of clean oil and 5' of slight oil cut mud (6% oil).

IFP:20-20#/30"; ISIP:62#/30";
FFP:20-20#/30"; FSIP:31#/30".

DST #3 from 4125' to 4170' (L/KC "J" zone). Recovered 140' gas in pipe, 40' of muddy gassy oil (6% gas, 49% oil, 45% mud) and 60' of heavy oil cut mud (5% gas, 35% oil, 60% mud).

IFP:52-62#/45"; ISIP:1298#/60";
FFP:72-72#/45"; FSIP:1267#/60".

DST #4 from 4436' to 4470' (Cherokee Lime). Recovered 35' mud, no show of oil.

IFP:104-104#/30"; ISIP:826#/30";
FFP:104-104#/30"; FSIP:209#/30".

RECEIVED
MARKS AS CORRECT COPY
1997 OCT -11 P 8:33

ALLIED CEMENTING CO., INC.

0288

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

CONFIDENTIAL ORIGINAL

SERVICE POINT:
OAKLEY

DATE <u>6-13-96</u>	SEC. <u>11</u>	TWP. <u>6S</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION <u>1:00 PM</u>	JOB START <u>3:15 PM</u>	JOB FINISH <u>3:45 PM</u>
LEASE <u>SHUGHART</u>	WELL # <u>2</u>	LOCATION <u>Colby 10N-4 1/2 E-S1N10</u>		COUNTY <u>THOMAS</u>	STATE <u>KS</u>		

OLD OR NEW (Circle one)

CONTRACTOR WHITE & ELLIS

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 274'

CASING SIZE 8 5/8" DEPTH 273'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

OWNER SAME

CEMENT

AMOUNT ORDERED 165 SKS 60/40 @ 2.90 CC 29.66L

COMMON	<u>99</u>	SKS	@	<u>7.20</u>	<u>712.80</u>
POZMIX	<u>66</u>	SKS	@	<u>3.15</u>	<u>207.90</u>
GEL	<u>3</u>	SKS	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	SKS	@	<u>28.00</u>	<u>140.00</u>

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

102 HELPER WALT

BULK TRUCK

315 DRIVER WAYNE

BULK TRUCK

_____ DRIVER _____

OCT 3

CONFIDENTIAL

HANDLING	<u>165</u>	SKS	@	<u>1.05</u>	<u>173.25</u>
MILEAGE	<u>44</u>	per sk/mile			<u>231.00</u>

RELEASED

TOTAL 1,493.45

JAN 29 1999

REMARKS:

FROM CONFIDENTIAL

SERVICE

DISPLACEMENT 16 1/4 BBL

CEMENT AEO CIRC.

DEPTH OF JOB	<u>273'</u>		
PUMP TRUCK CHARGE			<u>445.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>35 miles</u>	@	<u>2.85</u>
PLUG	<u>8 5/8 SURFACE</u>	@	<u>45.00</u>

TOTAL 589.75

CHARGE TO: MITCHELL EXPLORATION INC

STREET 125 N Market, ST. 1000

CITY Wichita STATE Kan ZIP 67202

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 Gary Wood

RECEIVED
KANSAS CORR CORP
KANSAS CORR CORP
OCT 4 1996
P 12:33

ALLIED CEMENTING CO., INC. 0336

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

ORIGINAL

SERVICE POINT: Oakley

DATE <u>6-22-96</u>	SEC. <u>11</u>	TWP. <u>6</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>5:00 PM</u>	JOB START	JOB FINISH <u>11:20 PM</u>
LEASE <u>Shughart</u> WELL # <u>2</u>				LOCATION <u>Colby 10N-4E-1/4S</u>		COUNTY <u>Thomas</u>	STATE <u>Kan</u>
OLD OR NEW (Circle one) RELEASED							

CONTRACTOR White + Ellis #9 OWNER JAN 29 1999 Same

TYPE OF JOB Production String (Bottom) CEMENT

HOLE SIZE <u>2 7/8</u>	T.D. <u>4570'</u>
CASING SIZE <u>4 1/2</u>	DEPTH <u>4282'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>D-V Tool</u>	DEPTH <u>2679'</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>21.60'</u>
CEMENT LEFT IN CSG.	<u>21.60'</u>
PERFS.	

FROM CONFIDENTIAL

AMOUNT ORDERED 225 SKS, 60/40 per
10% Salt, 5% Gilsomite
500 gal WFR-2

COMMON	<u>135 SKS</u>	@	<u>7.20</u>	<u>972.00</u>
POZMIX	<u>90 SKS</u>	@	<u>3.15</u>	<u>283.50</u>
GEL		@		
CHLORIDE		@		
	<u>Salt 79 SKS</u>	@	<u>7.00</u>	<u>138.00</u>
	<u>Gilsomite 965#</u>	@	<u>4.14</u>	<u>395.65</u>
	<u>500 gal WFR-2</u>	@	<u>1.00</u>	<u>500.00</u>
		@		
		@		
HANDLING	<u>225 SKS</u>	@	<u>1.05</u>	<u>236.25</u>
MILEAGE	<u>4¢ per SK/mile</u>			<u>315.00</u>

EQUIPMENT

PUMP TRUCK	CEMENTER	<u>Walt</u>
# <u>300</u>	HELPER	<u>Terry</u>
BULK TRUCK		
# <u>218</u>	DRIVER	<u>Wayne</u>
BULK TRUCK		
# <u>212-303</u>	DRIVER	

TOTAL 2,835.40

REMARKS:

SERVICE

Circ Basket Shoe Ball
to open tool, dropped insert ball
mixed 225 SKS cement, displaced
2 1/2 BBL water + 4 1/2 BBL mud, landed
Plug @ 1000' 3/4 float held

Paul Co

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>1,030.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>35 miles</u>	@	<u>2.85</u> <u>99.75</u>
PLUG		@	
		@	
		@	

TOTAL 1,129.75

CHARGE TO: Ritchie Explorations

STREET 125 N Mead #1000

CITY Wichita STATE Kan ZIP 67202

FLOAT EQUIPMENT

	<u>4 1/2</u>		
1- Basket Shoe	@		<u>1,498.00</u>
1- AFU insert	@		<u>235.00</u>
6- Turbo Centralizers	@		<u>318.00</u>
2- Baskets	@		<u>258.00</u>
1- DV Tool	@		<u>3,654.00</u>

TOTAL 5,963.00

TAX _____

TOTAL CHARGE _____

DISCOUNT _____

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 [Signature]

RECEIVED
 KANSAS CEMENTING COMPANY
 JUN 21 1996 11:12 AM

ALLIED CEMENTING CO., INC.

0337

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

ORIGINAL

SERVICE POINT:

Oakley
6-23-96

DATE <u>6-22-96</u>	SEC. <u>11</u>	TWP. <u>6</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>5:00 PM</u>	JOB START	JOB FINISH <u>1:00 AM</u>
LEASE <u>Shughart</u> WELL # <u>2</u>			LOCATION <u>Colby 10N-4E-1/2S</u>		COUNTY <u>Thomas</u>	STATE <u>Kan</u>	
OLD OR NEW (Circle one)							

RELEASED

CONTRACTOR White + Ellis #9
 TYPE OF JOB Production String (Top)
 HOLE SIZE 7 7/8 T.D. 4570
 CASING SIZE 4 1/2 DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL D-V Tool DEPTH 2679'
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 21.60'
 CEMENT LEFT IN CSG. 21.60'
 PERFS.

OWNER Same
 JAN 29 1999. CEMENT
 AMOUNT ORDERED 615 SKs @ 50/50 per
6% Gel, 1/4" Flo-Seal

COMMON	<u>308</u> SKs @ <u>720</u>	<u>2,217.60</u>
POZMIX	<u>307</u> SKs @ <u>315</u>	<u>967.05</u>
GEL	<u>31</u> SKs @ <u>950</u>	<u>294.50</u>
CHLORIDE	@	
<u>Flo-Seal</u>	<u>154</u> # @ <u>115</u>	<u>177.10</u>
	@	
	@	
	@	
	@	
HANDLING	<u>6.15</u> SKs @ <u>105</u>	<u>645.75</u>
MILEAGE	<u>44</u> per SK/mile	<u>861.00</u>

TOTAL 5,163.00

EQUIPMENT

PUMP TRUCK CEMENTER Walt
 # 300 HELPER Terry
 BULK TRUCK
 # 218 DRIVER Wayne
 BULK TRUCK
 # 212-303 DRIVER 1

REMARKS:

SERVICE

Opened D-V Tool Circ 15 min
mixed SKs cement
Cement Circ to surface
Displaced 42 BBL water hand plug
2/300psi, Cementari Walt Drill
Proper running DRIVEN

DEPTH OF JOB _____
 PUMP TRUCK CHARGE 550.00
 EXTRA FOOTAGE @ _____
 MILEAGE @ _____
 PLUG @ _____
 @ _____
 @ _____
 TOTAL 550.00

CHARGE TO: Ritchie Explorations
 STREET 125 N Market #1000
 CITY Wichita STATE Kansas ZIP 67202

FLOAT EQUIPMENT

 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____

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

SIGNATURE _____

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

1997 OCT - 4 P 12:33
 RECEIVED
 KANSAS CORP COMM

RELEASED

ORIGINAL

JAN 29 1999

FROM CONFIDENTIAL

DST REPORT

15-193-20652

GENERAL INFORMATION

DATE : 6/17/96
 CUSTOMER : RITCHIE EXPLOR/CANYON
 WELL : #2 TEST: 1
 ELEVATION: 3103 KB
 SECTION : 11
 RANGE : 33W COUNTY: THOMAS
 GAUGE SN#: 10270 RANGE : 4150

TICKET : 22083
 LEASE : E SHUGHART
 GEOLOGIST: CHRISTIAN
 FORMATION: LANSING C
 TOWNSHIP : 6S
 STATE : KS
 CLOCK : 12

OCT 3

CONFIDENTIAL

WELL INFORMATION

PERFORATION INTERVAL FROM: 4014.00 ft TO: 4030.00 ft TVD: 4050.0 ft
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
 DEPTH OF RECORDERS: 4017.0 ft 4020.0 ft
 TEMPERATURE: 111.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3989.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	25.0 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:	4009.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4014.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4030.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : WHITE & ELLIS
 MUD TYPE : STARCH
 WEIGHT : 9.400 ppg
 CHLORIDES : 11000 ppm
 JARS-MAKE :
 DID WELL FLOW?: NO

VISCOSITY : 42.00 cP
 WATER LOSS: 12.600 mL/g
 SERIAL NUMBER:
 REVERSED OUT?: NO

PLEASE KEEP THIS
 INFORMATION
 CONFIDENTIAL

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW THROUGHOUT - 1/4 TO
 1 INCH BLOW. FINAL FLOW PERIOD WEAK BLOW
 THROUGHOUT - 1/2 TO 3/4 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
20.0	0.0	0.0	0.0	100.0	MUD W/SHOW OF OIL ON TOP OF TOOL
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.2805	STB	TOTAL FLOW TIME:	60.0000 min.
WATER VOLUME:	0.0000	STB	AVERAGE OIL RATE:	0.0000 STB/D
TOTAL FLUID :	0.2805	STB	AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1973.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	20.00	20.00
INITIAL SHUT-IN	45.00		1257.00
FINAL FLOW	30.00	31.00	31.00
FINAL SHUT-IN	45.00		1236.00

FINAL HYDROSTATIC PRESSURE: 1941.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2015.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	16.19	24.79
INITIAL SHUT-IN	45.00		1262.92
FINAL FLOW	30.00	66.01	42.54
FINAL SHUT-IN	45.00		1247.67

FINAL HYDROSTATIC PRESSURE: 1974.00

Company: RICHTIE EXPLORATION/CANYON ENERGY
 Well: #2 E SHUGHART
 Field: TKT 22083 DST 1

[Monday: June 17, 1996]
 Page 1

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

START FLOW 1				
1	0	0:51:54	0.0000	16.19
10	0	0:52:59	0.0180	18.83
19	0	0:55:16	0.0559	18.02
28	0	0:56:20	0.0739	20.65
37	0	0:57:25	0.0919	20.68
46	0	0:58:30	0.1099	20.72
55	0	0:59:35	0.1278	22.48
64	0	1: 0:39	0.1458	21.64
73	0	1: 1:44	0.1638	21.67
82	0	1: 2:49	0.1818	21.70
91	0	1: 3:54	0.1998	22.60
100	0	1: 4:58	0.2178	22.63
109	0	1: 6: 3	0.2358	22.66
118	0	1: 7: 8	0.2537	22.69
127	0	1: 8:13	0.2717	22.72
136	0	1: 9:17	0.2897	22.75
145	0	1:10:22	0.3077	22.78
154	0	1:11:27	0.3257	22.81
163	0	1:12:32	0.3437	22.85
172	0	1:13:36	0.3617	22.88
181	0	1:14:41	0.3796	22.91
190	0	1:15:46	0.3976	23.80
199	0	1:16:51	0.4156	23.83
208	0	1:17:55	0.4336	23.86
217	0	1:19: 0	0.4516	23.89
226	0	1:20: 5	0.4695	24.79
END FLOW 1				
START SHUTIN 1				
234	0	1:21: 2	0.4855	24.82
235	0	1:21:10	0.4875	24.82
244	0	1:22:14	0.5055	30.06
255	0	1:23:16	0.5227	560.03
265	0	1:24:20	0.5404	811.59
274	0	1:25:21	0.5575	914.83
283	0	1:26:24	0.5748	983.38
292	0	1:27:27	0.5925	1022.44
301	0	1:28:31	0.6101	1057.16
310	0	1:29:35	0.6279	1084.08
319	0	1:30:39	0.6457	1102.33
328	0	1:31:43	0.6635	1118.84
337	0	1:32:48	0.6814	1133.61
346	0	1:33:52	0.6993	1144.92
355	0	1:34:56	0.7172	1155.35
364	0	1:36: 1	0.7351	1164.93
373	0	1:37: 5	0.7530	1174.50
382	0	1:38:10	0.7709	1180.60
391	0	1:39:14	0.7888	1187.57
400	0	1:40:19	0.8068	1193.67
409	0	1:41:23	0.8247	1199.77
418	0	1:42:28	0.8426	1205.00
427	0	1:43:32	0.8606	1210.24
436	0	1:44:37	0.8785	1214.61
445	0	1:45:42	0.8965	1218.97
454	0	1:46:46	0.9144	1222.47

WESTERN TESTING CO., INC.

Company: RICHTHIE EXPLORATION/CANYON ENERGY
 Well: #2 E SHUGHART
 Field: TKT 22083 DST 1

[Monday: June 17, 1996]
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
463	0	1:47:51	0.9324	1226.84
472	0	1:48:56	0.9503	1230.34
481	0	1:50: 0	0.9683	1232.97
490	0	1:51: 5	0.9862	1235.60
499	0	1:52:10	1.0042	1238.24
508	0	1:53:14	1.0222	1241.74
517	0	1:54:19	1.0401	1244.37
526	0	1:55:24	1.0581	1247.00
535	0	1:56:28	1.0760	1248.77
544	0	1:57:33	1.0940	1251.40
553	0	1:58:38	1.1120	1253.16
562	0	1:59:42	1.1299	1254.93
571	0	2: 0:47	1.1479	1256.69
580	0	2: 1:52	1.1659	1258.46
589	0	2: 2:56	1.1839	1260.22
598	0	2: 4: 1	1.2018	1261.12
607	0	2: 5: 6	1.2198	1262.89
616	0	2: 6:10	1.2378	1262.92
END SHUTIN 1				
START FLOW 2				
617	0	2: 6:56	1.2505	66.01
619	0	2: 7:11	1.2546	61.68
628	0	2: 8:16	1.2726	53.90
637	0	2: 9:21	1.2906	49.60
646	0	2:10:26	1.3087	47.03
655	0	2:11:30	1.3267	45.32
664	0	2:12:35	1.3447	43.62
673	0	2:13:40	1.3626	42.78
682	0	2:14:45	1.3806	42.81
691	0	2:15:50	1.3986	41.11
700	0	2:16:54	1.4166	41.14
709	0	2:17:59	1.4346	41.17
714	0	2:25: 3	1.5525	40.50
723	0	2:26: 8	1.5705	41.40
732	0	2:27:13	1.5885	41.43
741	0	2:28:18	1.6064	41.46
750	0	2:29:22	1.6244	41.49
759	0	2:30:27	1.6424	41.52
768	0	2:31:32	1.6604	41.55
777	0	2:32:37	1.6784	41.58
786	0	2:33:41	1.6964	41.61
795	0	2:34:46	1.7144	41.64
804	0	2:35:51	1.7323	42.54
END FLOW 2				
START SHUTIN 2				
810	0	2:36:34	1.7443	49.50
813	0	2:36:55	1.7500	76.40
824	0	2:37:59	1.7679	528.31
834	0	2:39: 2	1.7854	807.62
843	0	2:40: 3	1.8025	908.26
852	0	2:41: 6	1.8199	977.68
861	0	2:42: 9	1.8375	1018.47
870	0	2:43:13	1.8552	1047.13
879	0	2:44:17	1.8730	1072.31
888	0	2:45:21	1.8908	1090.55

Company: RICHTHIE EXPLORATION/CANYON ENERGY
Well: #2 E SHUGHART
Field: TKT 22083 DST 1

[Monday: June 17, 1996]
Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
897	0	2:46:26	1.9086	1106.20
906	0	2:47:30	1.9265	1120.10
915	0	2:48:34	1.9444	1131.41
924	0	2:49:39	1.9623	1143.58
933	0	2:50:43	1.9802	1152.29
942	0	2:51:48	1.9981	1160.12
951	0	2:52:52	2.0160	1167.09
960	0	2:53:57	2.0339	1173.19
969	0	2:55: 1	2.0519	1179.29
978	0	2:56: 6	2.0698	1186.26
987	0	2:57:10	2.0877	1190.63
996	0	2:58:15	2.1057	1195.86
1005	0	2:59:19	2.1236	1200.23
1014	0	3: 0:24	2.1416	1204.60
1023	0	3: 1:29	2.1595	1208.10
1032	0	3: 2:33	2.1775	1211.60
1041	0	3: 3:38	2.1954	1214.23
1050	0	3: 4:43	2.2134	1216.86
1059	0	3: 5:47	2.2314	1219.49
1068	0	3: 6:52	2.2493	1222.13
1077	0	3: 7:57	2.2673	1224.76
1086	0	3: 9: 1	2.2852	1227.39
1095	0	3:10: 6	2.3032	1230.02
1104	0	3:11:11	2.3212	1231.79
1113	0	3:12:15	2.3391	1233.55
1122	0	3:13:20	2.3571	1236.19
1131	0	3:14:25	2.3751	1237.95
1140	0	3:15:29	2.3930	1240.58
1149	0	3:16:34	2.4110	1241.48
1158	0	3:17:39	2.4290	1243.25
1167	0	3:18:43	2.4469	1245.01
1176	0	3:19:48	2.4649	1245.91
1185	0	3:20:53	2.4829	1247.67

WESTERN TESTING CO., INC.

KT JORS
I

OST #1
10270



Inside Recorder

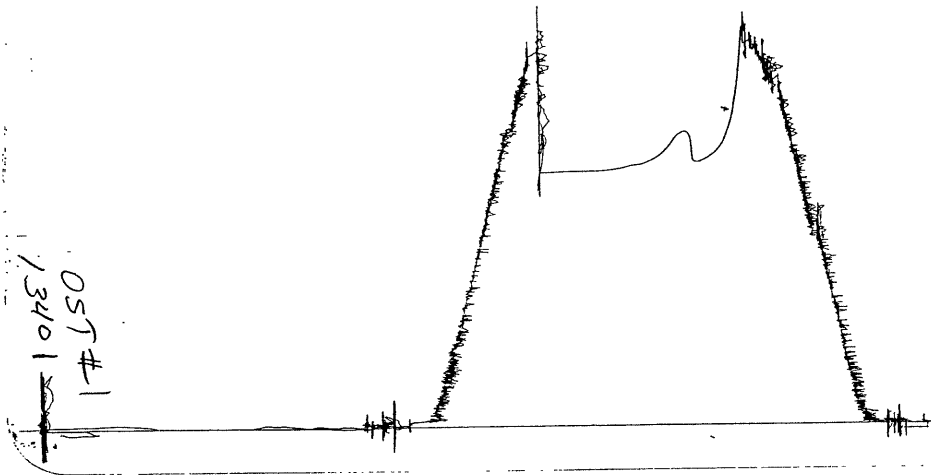
KT JORS
O

OST #1
13550



Outside Recorder

24 J085
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Inside Recorder

Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 6/18/96 TICKET : 22084
CUSTOMER : RITCHIE EXPLOR/CANYON LEASE : E SHUGHART
WELL : #2 TEST: 2 GEOLOGIST: CHRISTIAN
ELEVATION: 3103 KB FORMATION: LANSING F
SECTION : 11 TOWNSHIP : 6S
RANGE : 33W COUNTY: THOMAS STATE : KS
GAUGE SN#: 10270 RANGE : 4150 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4048.00 ft TO: 4077.00 ft TVD: 4077.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4069.0 ft 4072.0 ft
TEMPERATURE: 112.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	4024.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	24.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	29.0 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:	4043.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4048.0 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. : WHITE & ELLIS
MUD TYPE : STARCH VISCOSITY : 46.00 cp
WEIGHT : 9.100 ppg WATER LOSS: 12.800 cc
CHLORIDES : 11000 ppm
JARS-MAKE :
DID WELL FLOW?: NO SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW - DIED IN 18
MINUTES. FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1.0	100.0	0.0	0.0	0.0	CLEAN OIL GRAVITY 37 OIL CUT MUD
5.0	6.0	0.0	0.0	94.0	

RATE INFORMATION

OIL VOLUME:	0.0182 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	2.0198 STB/D
MUD VOLUME:	0.0659 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0842 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2097.00

Description	Duration	p1	p End
INITIAL FLOW	30.00		
INITIAL SHUT-IN	30.00	20.00	20.00
FINAL FLOW	30.00		62.00
FINAL SHUT-IN	30.00	20.00	20.00
			31.00

FINAL HYDROSTATIC PRESSURE: 2035.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2129.00

Description	Duration	p1	p End
INITIAL FLOW	30.00		
INITIAL SHUT-IN	30.00	47.51	37.54
FINAL FLOW	30.00		64.33
FINAL SHUT-IN	30.00	40.19	38.35
			48.30

FINAL HYDROSTATIC PRESSURE: 2032.00

Company: RITCHIE EXPLORATION/CANYON
Well: #2 E. SHUGHART DST 2
Field: TKT 22084

[Sunday: Jan. 1, 1989]
Page 1

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

START FLOW 1				
1	0	15:50: 6	0.0000	47.51
9	0	15:51: 4	0.0160	46.66
18	0	15:52: 8	0.0340	44.95
27	0	15:53:13	0.0520	42.37
36	0	15:54:18	0.0700	41.52
45	0	15:55:23	0.0880	40.68
54	0	15:56:27	0.1060	39.83
63	0	15:57:32	0.1239	39.86
72	0	15:58:37	0.1419	39.01
81	0	15:59:42	0.1599	39.04
90	0	16: 0:46	0.1779	39.06
99	0	16: 1:51	0.1959	39.08
108	0	16: 2:56	0.2139	39.10
117	0	16: 4: 1	0.2319	39.13
126	0	16: 5: 5	0.2498	39.15
135	0	16: 6:10	0.2678	39.17
144	0	16: 7:15	0.2858	38.33
146	0	16: 9:17	0.3198	37.50
149	0	16:11: 5	0.3498	37.54
END FLOW 1				
START SHUTIN 1				
151	0	16:25:14	0.5856	39.58
160	0	16:26:19	0.6035	40.47
167	0	16:32:18	0.7034	43.19
176	0	16:33:23	0.7214	44.08
185	0	16:34:28	0.7394	45.84
194	0	16:35:33	0.7574	46.73
203	0	16:36:37	0.7753	47.62
212	0	16:37:42	0.7933	48.51
218	0	16:39:51	0.8293	51.16
222	0	16:42:30	0.8732	54.68
231	0	16:43:34	0.8912	56.44
240	0	16:44:39	0.9092	58.20
243	0	16:46:12	0.9351	60.83
250	0	16:47:32	0.9571	64.33
END SHUTIN 1				
START FLOW 2				
255	0	16:54: 8	1.0672	40.19
264	0	16:55:13	1.0852	40.21
270	0	16:57: 8	1.1171	38.51
275	0	16:58:41	1.1431	37.68
284	0	16:59:46	1.1611	36.84
285	0	17: 4:34	1.2410	36.07
294	0	17: 5:39	1.2590	35.22
299	0	17: 7: 5	1.2830	34.39
301	0	17: 8:24	1.3050	35.28
310	0	17: 9:29	1.3230	35.31
319	0	17:10:34	1.3410	35.33
328	0	17:11:38	1.3590	36.22
337	0	17:12:43	1.3769	36.24
344	0	17:13:55	1.3969	36.27
353	0	17:15: 0	1.4149	37.16
360	0	17:16:19	1.4369	36.32
364	0	17:18:14	1.4689	36.36

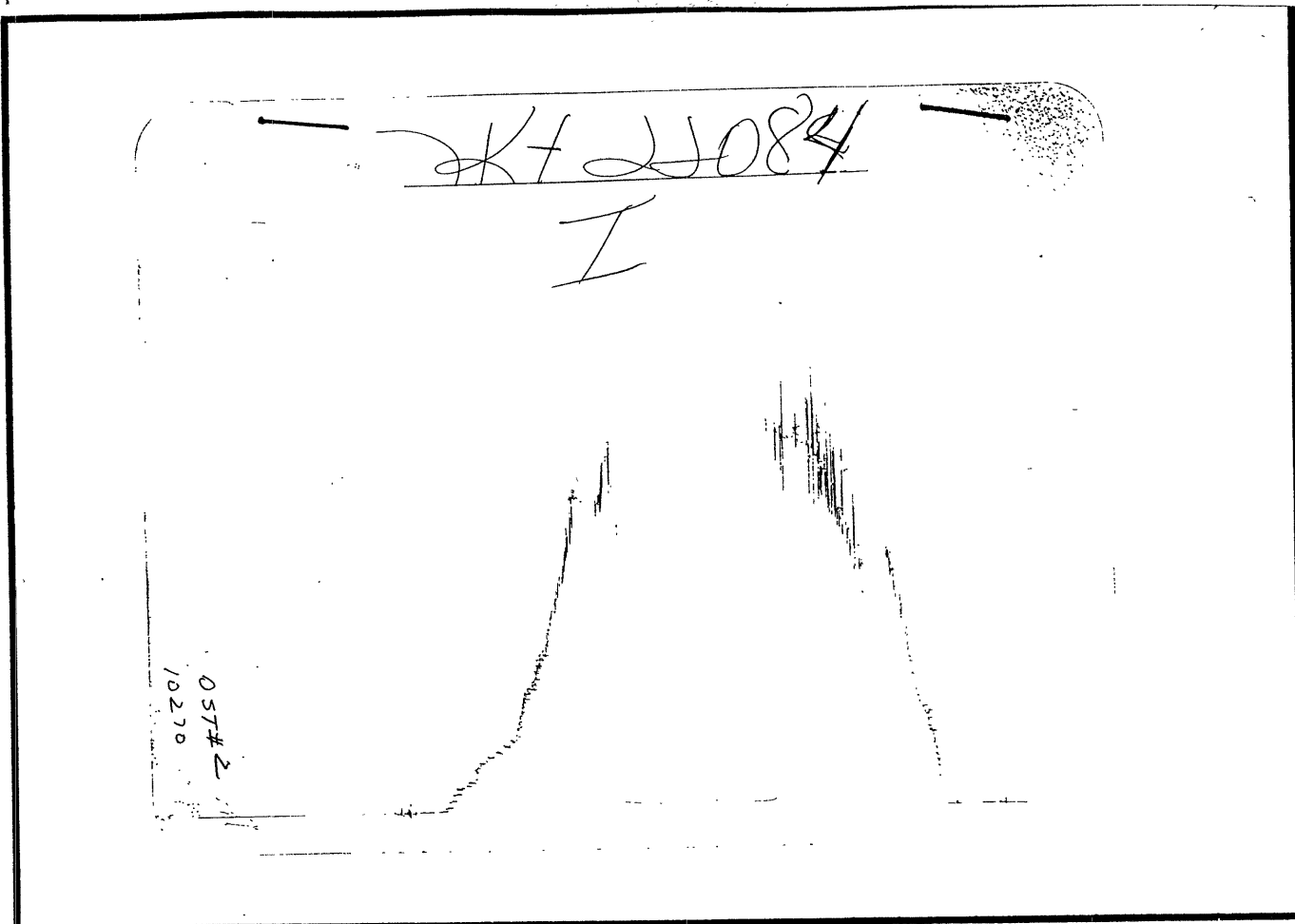
WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION/CANYON
Well: #2 E. SHUGHART DST 2
Field: TKT 22084

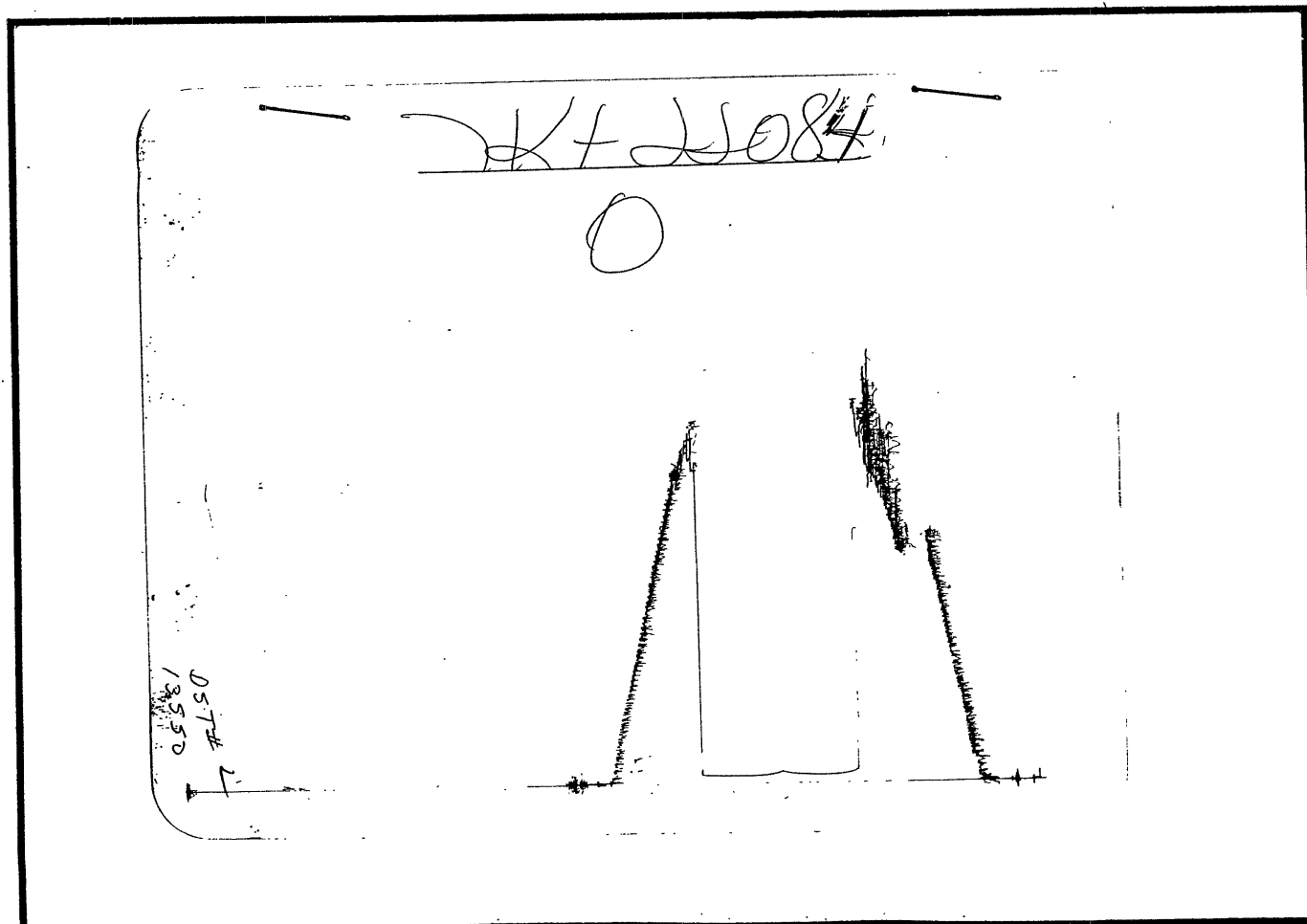
[Sunday: Jan. 1, 1989]
Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
373	0	17:19:19	1.4868	37.25
382	0	17:20:23	1.5048	37.27
391	0	17:21:28	1.5228	37.29
400	0	17:25:18	1.5868	36.51
409	0	17:26:23	1.6047	37.40
413	0	17:27:42	1.6267	37.43
420	0	17:30:13	1.6687	38.35
		END FLOW 2		
		START SHUTIN 2		
427	0	17:31: 4	1.6827	38.36
429	0	17:31:18	1.6867	38.37
438	0	17:32:23	1.7046	39.26
447	0	17:33:27	1.7226	39.28
451	0	17:34:32	1.7406	39.30
460	0	17:35:37	1.7586	40.19
469	0	17:36:42	1.7766	41.08
478	0	17:37:46	1.7945	41.97
487	0	17:38:51	1.8125	42.87
496	0	17:39:56	1.8305	43.76
505	0	17:41: 1	1.8485	43.78
514	0	17:42: 5	1.8665	44.67
523	0	17:43:10	1.8844	44.69
532	0	17:44:15	1.9024	45.58
541	0	17:45:20	1.9204	45.60
550	0	17:46:24	1.9384	47.36
559	0	17:47:29	1.9564	47.38
568	0	17:48:34	1.9743	48.27
577	0	17:49:38	1.9923	48.30

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 6/19/96	TICKET : 22085
CUSTOMER : RITCHIE EXPLOR/CANYON	LEASE : E SHUGHART
WELL : #2 TEST: 3	GEOLOGIST: CHRISTIAN
ELEVATION: 3103 KB	FORMATION: LANSING J
SECTION : 11	TOWNSHIP : 6S
RANGE : 33W COUNTY: THOMAS	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4125.00 ft	TO: 4170.00 ft	TVD: 4170.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4128.0 ft	4131.0 ft	
TEMPERATURE: 113.0		

DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 4101.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 24.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 45.0 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: 4120.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4125.0 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. : WHITE & ELLIS	
MUD TYPE : STARCH	VISCOSITY : 42.00 cp
WEIGHT : 9.200 ppg	WATER LOSS: 14.000 cc
CHLORIDES : 10000 ppm	
JARS-MAKE :	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A FAIR BLOW -
 1/4 TO 3 1/4 INCH BLOW. FINAL FLOW PERIOD WEAK
 BUILDING BLOW - 2 TO 3 1/2 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
0.0	0.0	0.0	0.0	0.0	140 FT GAS ABOVE FLUID
40.0	49.0	6.0	0.0	45.0	MUDDY GASSY OIL
60.0	35.0	5.0	0.0	60.0	HEAVY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.5695	STB		
GAS VOLUME:	0.4253	SCF		
MUD VOLUME:	0.7574	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	1.3269	STB		
			TOTAL FLOW TIME:	90.0000 min.
			AVERAGE OIL RATE:	21.2303 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2139.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	52.00	62.00
INITIAL SHUT-IN	60.00		1298.00
FINAL FLOW	45.00	72.00	72.00
FINAL SHUT-IN	60.00		1267.00

FINAL HYDROSTATIC PRESSURE: 2118.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2139.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	74.05	70.44
INITIAL SHUT-IN	60.00		1295.22
FINAL FLOW	45.00	90.50	85.13
FINAL SHUT-IN	60.00		1266.59

FINAL HYDROSTATIC PRESSURE: 2117.00

Company: RITCHIE EXPLORATION/CANYON
 Well: #2 E. SHUGHART DST 3
 Field: TKT 22085

[Wednesday: June 19, 1996
 Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	12: 0: 6	0.0000	74.05
9	0	12: 1: 3	0.0160	74.06
18	0	12: 2: 8	0.0340	69.75
27	0	12: 3:13	0.0520	68.90
36	0	12: 4:18	0.0700	65.44
45	0	12: 5:22	0.0880	64.59
54	0	12: 6:27	0.1060	63.74
63	0	12: 7:32	0.1240	62.03
70	0	12: 8:44	0.1440	59.44
79	0	12: 9:49	0.1619	59.46
88	0	12:10:53	0.1799	60.35
97	0	12:11:58	0.1979	60.36
106	0	12:13: 3	0.2159	61.25
115	0	12:14: 8	0.2339	62.13
124	0	12:15:12	0.2519	62.15
133	0	12:16:17	0.2698	63.03
142	0	12:17:22	0.2878	63.05
151	0	12:18:27	0.3058	63.07
160	0	12:19:31	0.3238	63.09
169	0	12:20:36	0.3418	63.10
178	0	12:21:41	0.3598	63.12
187	0	12:22:46	0.3777	64.00
196	0	12:23:50	0.3957	64.02
205	0	12:24:55	0.4137	64.04
214	0	12:26: 0	0.4317	64.06
223	0	12:27: 5	0.4497	64.94
232	0	12:28: 9	0.4677	64.96
241	0	12:29:14	0.4857	64.98
250	0	12:30:19	0.5036	65.86
259	0	12:31:24	0.5216	65.88
268	0	12:32:28	0.5396	65.89
277	0	12:33:33	0.5576	65.91
286	0	12:34:38	0.5756	66.80
295	0	12:35:43	0.5935	66.81
304	0	12:36:47	0.6115	67.70
313	0	12:37:52	0.6295	67.72
322	0	12:38:57	0.6475	67.73
331	0	12:40: 1	0.6655	67.75
340	0	12:41: 6	0.6835	68.64
349	0	12:42:11	0.7014	68.65
358	0	12:43:16	0.7194	69.54
367	0	12:44:20	0.7374	69.55
376	0	12:45:25	0.7554	70.44
END FLOW 1				
START SHUTIN 1				
382	0	12:46: 8	0.7674	73.05
385	0	12:46:30	0.7734	73.93
394	0	12:47:35	0.7913	79.15
403	0	12:48:39	0.8093	85.24
412	0	12:49:44	0.8272	96.53
421	0	12:50:48	0.8451	113.89
430	0	12:51:52	0.8629	149.47
439	0	12:52:56	0.8806	200.66
448	0	12:53:59	0.8982	288.28

Company: RITCHIE EXPLORATION/CANYON
 Well: #2 E. SHUGHART DST 3
 Field: TKT 22085

[Wednesday: June 19, 1996
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
457	0	12:55: 1	0.9155	421.86
466	0	12:56: 4	0.9328	546.78
475	0	12:57: 6	0.9502	670.82
484	0	12:58: 9	0.9674	813.08
493	0	12:59:11	0.9849	913.71
502	0	13: 0:15	1.0025	982.25
511	0	13: 1:18	1.0202	1049.91
520	0	13: 2:22	1.0379	1089.83
529	0	13: 3:27	1.0558	1115.87
538	0	13: 4:31	1.0737	1144.51
547	0	13: 5:35	1.0916	1158.40
556	0	13: 6:40	1.1095	1174.03
565	0	13: 7:44	1.1274	1187.06
574	0	13: 8:49	1.1453	1195.75
583	0	13: 9:53	1.1633	1205.30
592	0	13:10:58	1.1812	1214.00
601	0	13:12: 3	1.1991	1220.95
610	0	13:13: 7	1.2171	1227.04
619	0	13:14:12	1.2351	1231.39
628	0	13:15:17	1.2530	1236.62
637	0	13:16:21	1.2710	1240.10
646	0	13:17:26	1.2890	1244.46
655	0	13:18:31	1.3069	1248.81
664	0	13:19:35	1.3249	1251.43
673	0	13:20:40	1.3428	1255.78
682	0	13:21:45	1.3608	1258.40
691	0	13:22:49	1.3788	1261.89
700	0	13:23:54	1.3968	1265.38
709	0	13:24:59	1.4147	1267.13
718	0	13:26: 4	1.4327	1268.88
727	0	13:27: 8	1.4507	1272.37
736	0	13:28:13	1.4687	1274.12
745	0	13:29:18	1.4866	1275.87
754	0	13:30:22	1.5046	1277.62
763	0	13:31:27	1.5226	1278.51
772	0	13:32:32	1.5406	1280.26
781	0	13:33:37	1.5585	1282.01
790	0	13:34:41	1.5765	1282.90
799	0	13:35:46	1.5945	1284.65
808	0	13:36:51	1.6125	1285.53
817	0	13:37:55	1.6305	1287.28
826	0	13:39: 0	1.6484	1287.30
827	0	13:40:41	1.6764	1289.06
836	0	13:41:46	1.6944	1291.68
845	0	13:42:50	1.7124	1292.57
854	0	13:43:55	1.7303	1292.58
863	0	13:45: 0	1.7483	1294.34
872	0	13:46: 4	1.7663	1295.22
		END SHUTIN 1		
		START FLOW 2		
874	0	13:46:41	1.7764	90.50
878	0	13:47:10	1.7844	87.91
887	0	13:48:15	1.8024	85.32
896	0	13:49:19	1.8204	83.61
905	0	13:50:24	1.8384	82.76

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION/CANYON
Well: #2 E. SHUGHART DST 3
Field: TKT 22085

[Wednesday: June 19, 1996
Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
914	0	13:51:29	1.8564	81.91
923	0	13:52:34	1.8744	81.06
932	0	13:53:38	1.8924	80.21
941	0	13:54:43	1.9104	80.22
950	0	13:55:48	1.9284	79.37
958	0	13:56:53	1.9464	79.39
967	0	13:57:57	1.9643	80.27
976	0	13:59: 2	1.9823	80.29
985	0	14: 0: 7	2.0003	80.31
994	0	14: 1:12	2.0183	80.33
1003	0	14: 2:16	2.0363	80.34
1012	0	14: 3:21	2.0543	80.36
1021	0	14: 4:26	2.0722	80.38
1030	0	14: 5:31	2.0902	80.40
1039	0	14: 6:35	2.1082	80.41
1048	0	14: 7:40	2.1262	81.30
1057	0	14: 8:45	2.1442	81.31
1066	0	14: 9:50	2.1622	81.33
1075	0	14:10:54	2.1802	82.22
1084	0	14:11:59	2.1981	82.23
1093	0	14:13: 4	2.2161	82.25
1102	0	14:14: 9	2.2341	82.27
1111	0	14:15:13	2.2521	82.29
1120	0	14:16:18	2.2701	82.30
1129	0	14:17:23	2.2881	82.32
1138	0	14:18:28	2.3060	83.20
1147	0	14:19:32	2.3240	83.22
1156	0	14:20:37	2.3420	83.24
1165	0	14:21:42	2.3600	83.26
1174	0	14:22:46	2.3780	84.14
1183	0	14:23:51	2.3960	84.16
1192	0	14:24:56	2.4139	84.18
1201	0	14:26: 1	2.4319	84.19
1210	0	14:27: 5	2.4499	85.08
1219	0	14:28:10	2.4679	85.09
1228	0	14:29:15	2.4859	85.11
1237	0	14:30:20	2.5039	85.13
		END FLOW 2		
		START SHUTIN 2		
1242	0	14:30:56	2.5138	86.01
1246	0	14:31:24	2.5218	86.01
1255	0	14:32:29	2.5398	86.03
1264	0	14:33:34	2.5578	89.52
1273	0	14:34:38	2.5757	98.21
1282	0	14:35:43	2.5936	116.44
1291	0	14:36:47	2.6115	139.01
1300	0	14:37:51	2.6293	183.26
1309	0	14:38:55	2.6469	245.72
1318	0	14:39:58	2.6644	336.81
1327	0	14:41: 0	2.6818	453.92
1336	0	14:42: 3	2.6992	582.30
1345	0	14:43: 5	2.7166	691.60
1354	0	14:44: 8	2.7340	805.24
1363	0	14:45:11	2.7515	899.80
1372	0	14:46:15	2.7691	967.46

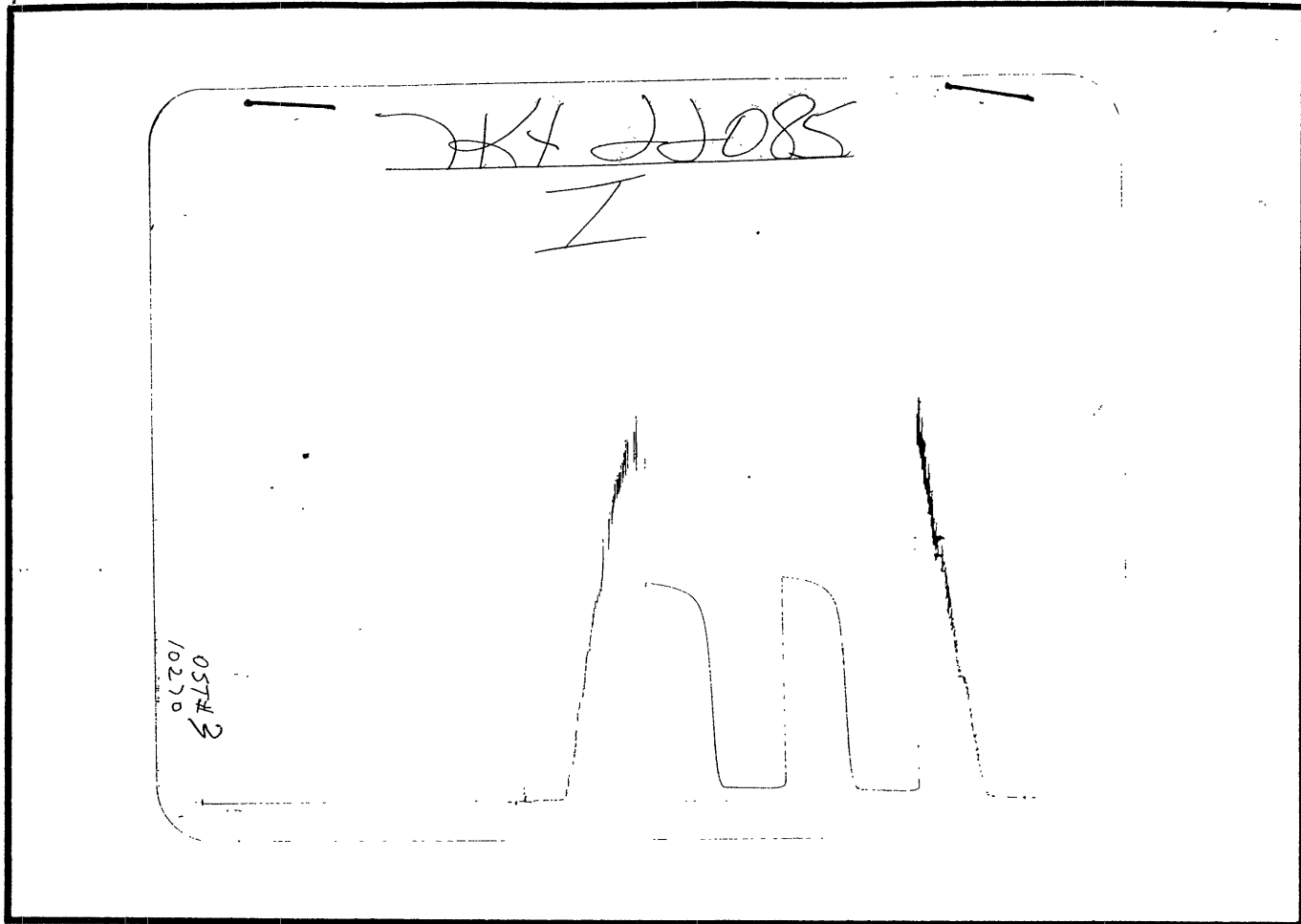
WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION/CANYON
Well: #2 E. SHUGHART DST 3
Field: TKT 22085

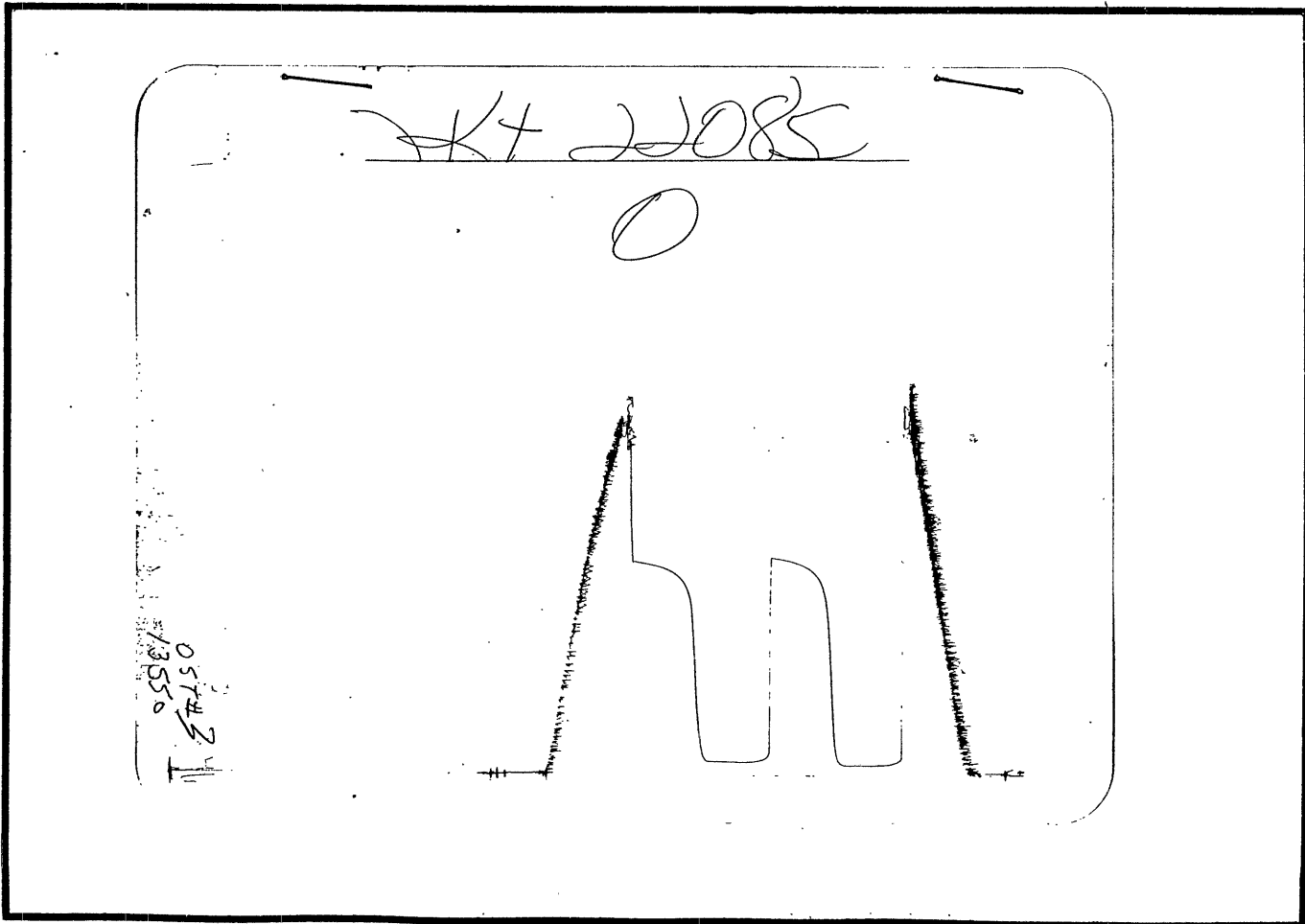
[Wednesday: June 19, 1
Page 4

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1381	0	14:47:19	2.7869	1015.18
1390	0	14:48:23	2.8047	1052.50
1399	0	14:49:27	2.8225	1083.74
1408	0	14:50:31	2.8404	1108.04
1417	0	14:51:35	2.8583	1126.27
1426	0	14:52:40	2.8762	1141.90
1435	0	14:53:44	2.8941	1154.06
1444	0	14:54:49	2.9120	1164.49
1453	0	14:55:54	2.9300	1172.31
1462	0	14:56:58	2.9479	1181.87
1471	0	14:58: 3	2.9658	1187.96
1480	0	14:59: 7	2.9838	1194.91
1489	0	15: 0:12	3.0018	1200.13
1498	0	15: 1:17	3.0197	1204.49
1507	0	15: 2:21	3.0377	1208.84
1516	0	15: 3:26	3.0556	1213.20
1525	0	15: 4:31	3.0736	1216.68
1534	0	15: 5:35	3.0916	1220.17
1543	0	15: 6:40	3.1095	1222.79
1552	0	15: 7:45	3.1275	1226.27
1561	0	15: 8:50	3.1455	1229.76
1570	0	15: 9:54	3.1635	1232.38
1579	0	15:10:59	3.1814	1235.00
1588	0	15:12: 4	3.1994	1237.62
1597	0	15:13: 8	3.2174	1239.37
1606	0	15:14:13	3.2354	1241.12
1615	0	15:15:18	3.2533	1242.87
1624	0	15:16:22	3.2713	1244.63
1633	0	15:17:27	3.2893	1246.38
1642	0	15:18:32	3.3073	1248.13
1651	0	15:19:37	3.3252	1249.88
1660	0	15:20:41	3.3432	1251.63
1669	0	15:21:46	3.3612	1253.39
1678	0	15:22:51	3.3792	1254.27
1687	0	15:23:56	3.3972	1256.02
1696	0	15:25: 0	3.4151	1257.77
1705	0	15:26: 5	3.4331	1258.66
1714	0	15:27:10	3.4511	1259.54
1723	0	15:28:14	3.4691	1261.30
1732	0	15:29:19	3.4870	1263.05
1741	0	15:30:24	3.5050	1263.07
1750	0	15:31:29	3.5230	1264.82
1759	0	15:32:33	3.5410	1265.70
1768	0	15:33:38	3.5590	1266.59

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 6/21/96	TICKET : 21319
CUSTOMER : RITCHIE EXPLOR/CANYON	LEASE : E SHUGHART
WELL : #2 TEST: 4	GEOLOGIST: CHRISTIAN
ELEVATION: 3103 KB	FORMATION: CHEROKEE
SECTION : 11	TOWNSHIP : 6S
RANGE : 33W COUNTY: THOMAS	STATE : KS
GAUGE SN#: 13551 RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4436.00 ft	TO: 4470.00 ft	TVD: 4470.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4439.0 ft	4442.0 ft	
TEMPERATURE: 0.0		
DRILL COLLAR LENGTH: 0.0 ft	I.D.: 0.000 in	
WEIGHT PIPE LENGTH : 0.0 ft	I.D.: 0.000 in	
DRILL PIPE LENGTH : 4413.0 ft	I.D.: 3.800 in	
TEST TOOL LENGTH : 23.0 ft	TOOL SIZE : 5.500 in	
ANCHOR LENGTH : 34.0 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: 4431.0 ft	SIZE: 6.750 in	
PACKER DEPTH: 4436.0 ft	SIZE: 6.750 in	
PACKER DEPTH: 0.0 ft	SIZE: 0.000 in	
PACKER DEPTH: 0.0 ft	SIZE: 0.000 in	

MUD INFORMATION

DRILLING CON. : WHITE & ELLIS	VISCOSITY : 43.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 13.600 cc
WEIGHT : 9.300 ppg	SERIAL NUMBER:
CHLORIDES : 10000 ppm	REVERSED OUT?: NO
JARS-MAKE :	
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK DECREASING BLOW - 1/4
INCH. FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
35.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME: 0.0000 STB	TOTAL FLOW TIME: 60.0000 min.
GAS VOLUME: 0.0000 SCF	AVERAGE OIL RATE: 0.0000 STB/D
MUD VOLUME: 0.4909 STB	AVERAGE WATER RATE: 0.0000 STB/D
WATER VOLUME: 0.0000 STB	
TOTAL FLUID : 0.4909 STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2310.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	104.00	104.00
INITIAL SHUT-IN	30.00		826.00
FINAL FLOW	30.00	104.00	104.00
FINAL SHUT-IN	30.00		209.00

FINAL HYDROSTATIC PRESSURE: 2216.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2266.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	102.71	96.46
INITIAL SHUT-IN	30.00		779.31
FINAL FLOW	30.00	114.63	59.56
FINAL SHUT-IN	30.00		180.05

FINAL HYDROSTATIC PRESSURE: 2220.00

Company: RITCHIE EXPLOR/CANYON
Well: #2 E SHUGHART DST 4
Field: TKT 21319

[Friday: June 21, 1996]
Page 1

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

START FLOW 1				
1	0	7:10:25	0.0000	102.71
6	0	7:11: 1	0.0100	102.69
15	0	7:12: 6	0.0279	97.43
24	0	7:13:11	0.0458	92.16
33	0	7:14:15	0.0638	90.38
42	0	7:15:20	0.0818	88.61
51	0	7:16:24	0.0997	82.47
60	0	7:17:29	0.1177	81.56
69	0	7:18:34	0.1356	80.66
78	0	7:19:38	0.1536	79.75
87	0	7:20:43	0.1716	79.71
96	0	7:21:48	0.1896	81.42
105	0	7:22:53	0.2075	77.02
114	0	7:23:57	0.2255	74.37
123	0	7:25: 2	0.2435	73.47
132	0	7:26: 7	0.2615	75.17
141	0	7:27:12	0.2795	76.88
150	0	7:28:16	0.2975	80.32
159	0	7:29:21	0.3155	77.67
168	0	7:30:26	0.3334	77.64
177	0	7:31:31	0.3515	80.21
186	0	7:32:36	0.3695	83.66
195	0	7:33:40	0.3875	86.24
204	0	7:34:45	0.4055	90.55
213	0	7:35:50	0.4236	96.61
222	0	7:36:55	0.4415	93.96
231	0	7:38: 0	0.4595	92.18
240	0	7:39: 4	0.4775	93.02
249	0	7:40: 9	0.4955	96.46
END FLOW 1				
START SHUTIN 1				
250	0	7:40:17	0.4975	97.33
258	0	7:41:14	0.5136	102.52
267	0	7:42:20	0.5317	114.68
276	0	7:43:25	0.5498	123.35
285	0	7:44:30	0.5680	143.35
294	0	7:45:36	0.5862	166.83
303	0	7:46:42	0.6045	197.27
312	0	7:47:48	0.6228	225.98
321	0	7:48:54	0.6412	260.78
330	0	7:50: 0	0.6596	299.93
339	0	7:51: 6	0.6780	338.22
348	0	7:52:13	0.6964	378.25
357	0	7:53:19	0.7148	419.14
366	0	7:54:25	0.7332	454.82
375	0	7:55:31	0.7517	498.33
384	0	7:56:38	0.7700	533.13
393	0	7:57:44	0.7884	568.80
402	0	7:58:50	0.8068	604.47
411	0	7:59:56	0.8251	638.40
420	0	8: 1: 2	0.8435	670.59
429	0	8: 2: 8	0.8618	701.91
438	0	8: 3:14	0.8801	728.00
447	0	8: 4:19	0.8983	755.83

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLOR/CANYON
 Well: #2 E SHUGHART DST 4
 Field: TKT 21319

[Friday: June 21, 1996]
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
456	0	8: 5:25	0.9166	779.31
		END SHUTIN 1		
		START FLOW 2		
464	0	8: 9:11	0.9793	114.63
473	0	8:10:16	0.9973	111.11
482	0	8:11:20	1.0152	101.49
491	0	8:12:25	1.0331	97.97
500	0	8:13:29	1.0511	94.45
509	0	8:14:34	1.0690	94.41
518	0	8:15:39	1.0870	93.51
527	0	8:16:43	1.1050	93.47
536	0	8:17:48	1.1230	93.43
545	0	8:18:53	1.1409	88.17
554	0	8:19:57	1.1588	81.17
563	0	8:21: 2	1.1768	76.77
572	0	8:22: 6	1.1947	74.99
581	0	8:23:11	1.2127	70.60
590	0	8:24:16	1.2306	67.95
599	0	8:25:20	1.2486	66.17
608	0	8:26:25	1.2665	64.40
617	0	8:27:30	1.2845	63.49
626	0	8:28:34	1.3025	61.71
635	0	8:29:39	1.3205	61.67
644	0	8:30:44	1.3384	60.76
653	0	8:31:49	1.3564	60.73
662	0	8:32:53	1.3744	60.69
671	0	8:33:58	1.3924	59.78
680	0	8:35: 3	1.4104	59.74
689	0	8:36: 8	1.4284	59.71
698	0	8:37:12	1.4463	59.67
707	0	8:38:17	1.4643	59.63
716	0	8:39:22	1.4823	59.60
725	0	8:40:27	1.5003	59.56
		END FLOW 2		
		START SHUTIN 2		
730	0	8:41: 2	1.5103	59.54
734	0	8:41:31	1.5183	59.52
743	0	8:42:36	1.5363	59.49
752	0	8:43:41	1.5543	59.45
761	0	8:44:45	1.5722	58.54
770	0	8:45:50	1.5902	58.50
779	0	8:46:55	1.6082	58.47
788	0	8:48: 0	1.6262	58.43
797	0	8:49: 5	1.6442	59.26
806	0	8:50: 9	1.6622	60.10
815	0	8:51:14	1.6802	60.93
824	0	8:52:19	1.6982	61.77
833	0	8:53:24	1.7162	63.47
842	0	8:54:28	1.7342	65.18
851	0	8:55:33	1.7522	66.88
860	0	8:56:38	1.7702	69.46
869	0	8:57:43	1.7882	71.16
878	0	8:58:48	1.8062	72.87
887	0	8:59:53	1.8242	76.31
896	0	9: 0:57	1.8422	78.89

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLOR/CANYON
Well: #2 E SHUGHART DST 4
Field: TKT 21319

[Friday: June 21, 1996]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
905	0	9: 2: 2	1.8602	79.72
914	0	9: 3: 7	1.8782	82.30
923	0	9: 4:12	1.8962	84.00
932	0	9: 5:17	1.9143	86.58
941	0	9: 6:22	1.9323	88.28
950	0	9: 7:26	1.9503	90.86
959	0	9: 8:31	1.9683	93.44
968	0	9: 9:36	1.9863	96.88
977	0	9:10:41	2.0043	102.07
986	0	9:11:46	2.0224	108.13
995	0	9:12:51	2.0404	114.19
1004	0	9:13:56	2.0585	120.25
1013	0	9:15: 1	2.0766	128.05
1022	0	9:16: 6	2.0946	134.98
1031	0	9:17:11	2.1127	143.66
1040	0	9:18:16	2.1308	152.33
1049	0	9:19:21	2.1488	157.52
1058	0	9:20:26	2.1669	167.06
1067	0	9:21:31	2.1849	170.51
1076	0	9:22:36	2.2030	180.05

WESTERN TESTING CO., INC.

FLUID SAMPLE REPORT

GENERAL INFORMATION

DATE : 6/21/96
CUSTOMER : RITCHIE EXPLOR/CANYON
WELL : #2
ELEVATION: 3103 KB
SECTION : 11
RANGE : 33W
GAUGE SN#: 13551
TEST: 4
COUNTY: THOMAS
RANGE : 4150
TICKET : 21319
LEASE : E SHUGHART
GEOLOGIST: CHRISTIAN
FORMATION: CHEROKEE
TOWNSHIP : 6S
STATE : KS
CLOCK : 12

SAMPLE INFORMATION

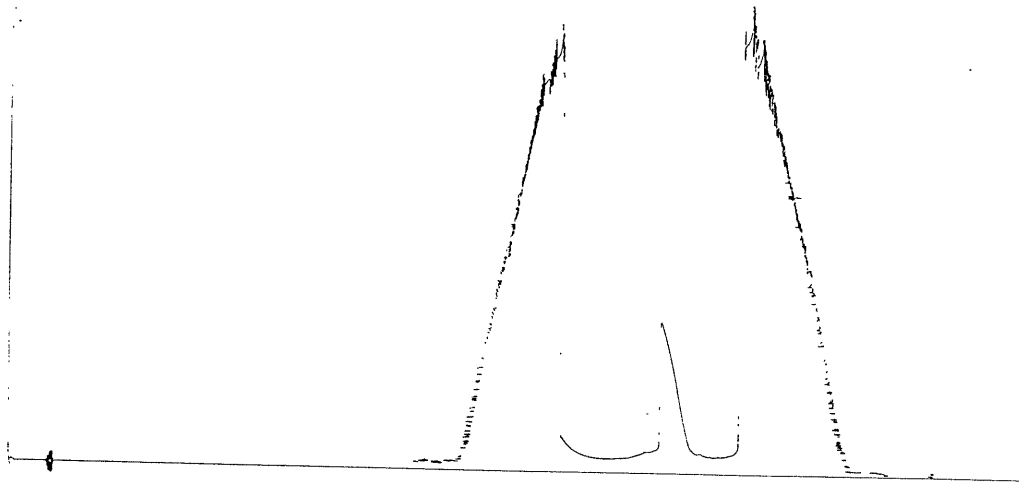
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BHT: 0.0 DEG F
TOTAL VOLUME OF SAMPLER: 3150.00 cc
TOTAL VOLUME OF SAMPLE: 3150.00 cc
OIL: 0.00 cc
WATER: 0.00 cc
MUD: 3150.00 cc
GAS: 0.00 cc
OTHER: 0.00 cc

RESISTIVITY

DRILLING MUD:
MUD PIT SAMPLE:
GAS/OIL RATIO:
WHERE WAS SAMPLE DRAINED:
REMARKS:
CHLORIDE CONTENT: 0.00 ppm
CHLORIDE CONTENT: 0.00 ppm
GRAVITY:

13554
45744

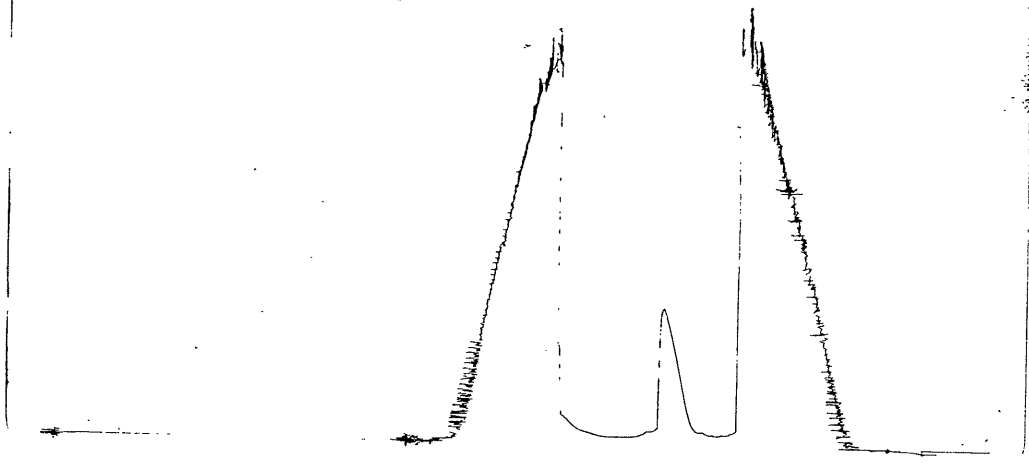
KT 21319
I



Inside Recorder

13268
45744

KT 21319
O

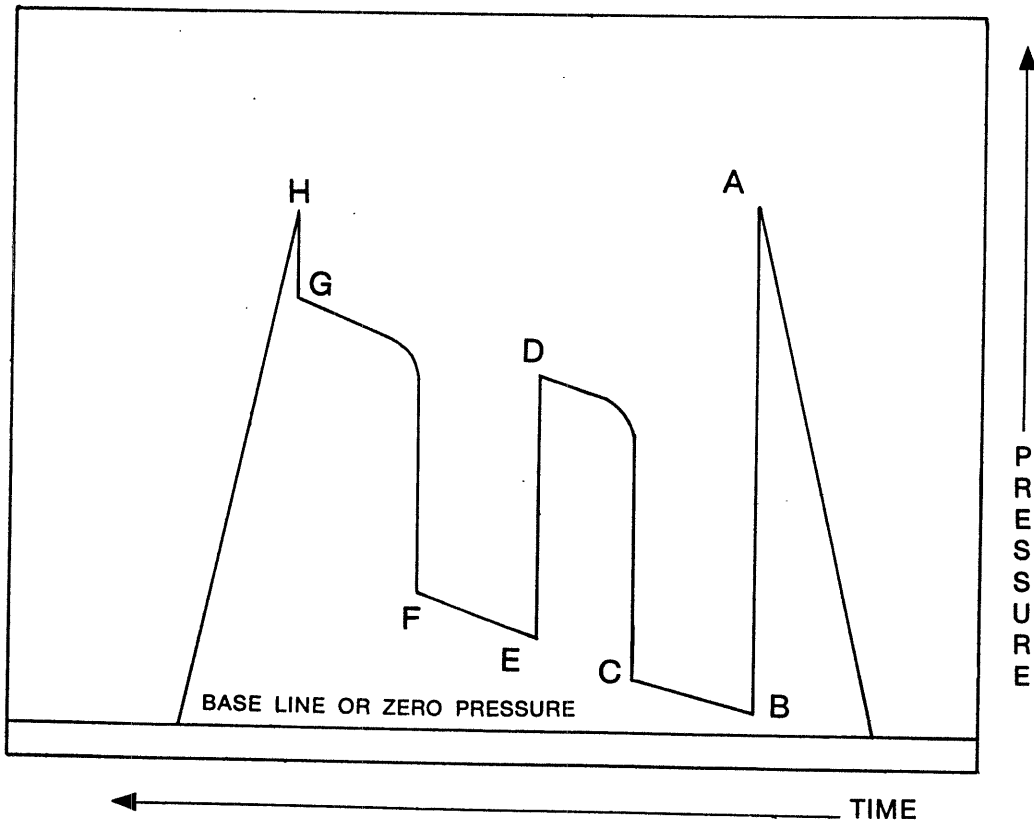


Outside Recorder

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

AK-1 Recorders



A - Initial Hydrostatic

B - First Initial Flow

C - First Final Flow

D - Initial Shut-In

E - Second Initial Flow

F - Second Final Flow

G - Final Shut-In

H - Final Hydrostatic