

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

API NO. 15- 15-101-21,723 ⁰⁰⁻⁰⁰ ORIGINAL

County Lane
SW -SE -NE - Sec. 7 Twp. 19 Rge. 28W ^EW

Operator: License # 4767

Name: Ritchie Exploration, Inc.

Address 125 N. Market, Suite 1000

City/State/Zip Wichita, KS 67202

Purchaser: Texaco

Operator Contact Person: Lisa Thimmesch

Phone (316) 267-4375

Contractor: Name: White & Ellis Drilling

License: 5420

Wellsite Geologist: Rocky Milford

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

7-16-96 7-21-96 11-8-96
Spud Date Date Reached TD Completion Date

2310 Feet from S(N) (circle one) Line of Section
990 Feet from E(W) (circle one) Line of Section

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

Lease Name Hineman-7A Well # 1

Field Name _____

Producing Formation Pleasanton

Elevation: Ground 2783 KB 2788

Total Depth 4670 PBTB 4608

Amount of Surface Pipe Set and Cemented at 230 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2101 Feet

If Alternate II completion, cement circulated from 2101

feet depth to surface w/ 347 sx cmt.

Drilling Fluid Management Plan ALT 1 8/8 11-26-96
(Data must be collected from the Reserve Pit)

Chloride content 4,000 ppm Fluid volume 706 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite:

Operator Name ~~CONFIDENTIAL~~ NOV 15

Lease Name _____ License No. _____

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

County _____ Docket No. _____
~~FROM CONFIDENTIAL~~

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]

Title Geologist Date 11-13-96

Subscribed and sworn to before me this 13th day of November, 1996

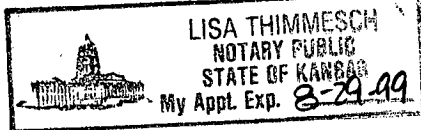
Notary Public [Signature]

Date Commission Expires _____

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

RECEIVED

KANSAS CORPORATION COMMISSION



NOV 13 1996
11-13-96

CONSERVATION DIVISION
WICHITA, KS

DATE FORW

Operator Name Ritchie Exploration, Inc. Lease Name Hineman-7A Well # 1

Sec. 7 Twp. 19 Rge. 28W East West
County Lane

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.)

Log Formation (Top), Depth and Datums Sample
Name Top Datum

See attached sheet

List All E.Logs Run:
Radiation Guard Log
Correlation Log

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

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 1/2	8 5/8	24#	230	60/40 poz	140	2% cel 4% CC
prod	7 7/8	4 1/2		4668	Common	150	EA-2 .5% Halad-322 .25% D-Air 5# Gilsonite

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	4383' 4388'	PLEASANTON		

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4383'-4388' Pleasanton	400 gal-28% MCA & 400 gal 15% MCA	same

TUBING RECORD Size 2 3/8" Set At 4630' Packer At NA Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 11-8-96 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 76 Bbls. Gas 10 Mcf Water 10 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 4383'-4388'
 Other (Specify)

CONFIDENTIAL

ORIGINAL

RITCHIE EXPLORATION, INC.

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

#1 Hineman-7A
SW SE NE
Section 7-19S-28W
Lane County, Kansas
API# 15-101-21,723
Elevation: 2783' GL, 2788' KB

RELEASED

JAN 29 1999,

FROM CONFIDENTIAL

Log Tops

Anhydrite	2131'+(657)
B/Anhy	2157'+(331)
Heebner	3963'(-1175)
Lansing	4006'(-1218)
Stark	4287'(-1499)
B/KC	4376'(-1588)
Marmaton	4404'(-1616)
Pawnee	4496'(-1708)
Fort Scott	4545'(-1757)
Cherokee	4569'(-1780)
Miss	4633'(-1845)
LTD	4669'(-1881)

**PLEASE KEEP THIS
INFORMATION
CONFIDENTIAL**

DST #1 from 4220' to 4250' ("T" zone). Recovered 2' mud.
IFP:31-31#/30"; ISIP:52#/30";
FFP:31-31#/30"; FSIP:52#/30".

DST #2 from 4284' to 4306' ("K" zone). Recovered 60' gas in pipe, 244' muddy water with very slight show of oil (less than 1%), and 976' water.
IFP:104-303#/30"; ISIP:889#/30";
FFP:428-543#/30"; FSIP:857#/30".

DST #3 from 4324' to 4338' ("L" zone). Recovered 2' mud.
IFP:25-25#/30"; ISIP:25#/30";
FFP:25-25#/30"; FSIP:25#/30".

DST #4 from 4373' to 4395' (Pleasanton). Recovered 660' gas in pipe, 20' clean oil, and 110' mud cut oil (55% oil, 45% mud).
IFP:31-31#/45"; ISIP:575#/45";
FFP:52-52#/45"; FSIP:564#/45".

RECEIVED
KANSAS CORPORATION COMMISSION

NOV 13 1996

CONSERVATION DIVISION
WICHITA, KS

KCC
NOV 13
CONFIDENTIAL

CUSTOMER COPY



HALLIBURTON

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

INVOICE

33003

INVOICE NO.	DATE
103615	07/21/1996

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
HINEMAN 7A 1		LANE		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
HAYS				CEMENT PRODUCTION CASING	
TICKET DATE					
07/21/1996					
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
741500	PETER FLORINI			COMPANY TRUCK	11152

CONFIDENTIAL

DIRECT CORRESPONDENCE TO:

RITCHIE EXPLORATION INC
125 N MARKET STE 1000
WICHITA, KS 67202

RECEIVED
KANSAS CORPORATION COMMISSION
P O BOX 428
HAYS KS 67601
913-625-3431

NOV 13 1996
CONFIDENTIAL

NOV 13 1996

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	CONSERVATION DIVISION WICHITA, KS				
000-117	MILEAGE CEMENTING ROUND TRIP	150 MI	1 UNT	2.99	448.50
001-016	CEMENTING CASING	4668 FT	1 UNT	1,820.00	1,820.00
030-016	WOODEN TOP PLUG	4.5 IN	1 EA	45.00	45.00
018-315	MUD FLUSH	500 GAL		.65	325.00
019-241	CASING SWIVEL W/O WALL CLEANER	1 JOB		185.00	185.00
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1 EA		95.00	95.00
825.201					
24A	INSERT FLOAT VALVE - 4 1/2" 8RD	1 EA		98.00	98.00
815.19101					
27	FILL-UP UNIT 4 1/2"-5"	1 EA		47.00	47.00
815.19113					
50	CENTRALIZR-TURBO-4-1/2 X 7-7/8	5 EA		60.00	300.00
806.60104					
320	BASKET-CMT-4 1/2 CSG X 18"OD	1 EA		97.00	97.00
806.71415					
73	PORT COLLAR	1 EA		1,400.00	1,400.00
813.0141					
504-308	CEMENT - STANDARD	165 SK		9.57	1,579.05
509-968	SALT	700 LB		.15	105.00
508-127	CAL SEAL 60	8 SK		25.90	207.20
508-291	GILSONITE BULK	800 LB		.40	320.00
507-970	D-AIR J, POWDER	41 LB		3.25	133.25
507-775	HALAD-322	63 LB		7.00	441.00
500-707	BULK SERVICE CHARGE	205 CFT		1.35	276.75
500-306	MILEAGE CNTG MAT DEL OR RETURN	671.775 TMI		1.05	705.36
INVOICE SUBTOTAL					8,628.11

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

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

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

CUSTOMER COPY



HALLIBURTON

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

INVOICE

3003

INVOICE NO.	DATE
103615	07/21/1996

WELL LEASE NO./PROJECT HINEMAN 7A 1		WELL/PROJECT LOCATION LANE ORIGINAL		STATE KS	OWNER SAME
SERVICE LOCATION HAYS		CONTRACTOR		JOB PURPOSE CEMENT PRODUCTION CASING	
ACCT. NO. 743500		CUSTOMER AGENT PETE FIORINI		VENDOR NO.	
CUSTOMER P.O. NUMBER		SHIPPED VIA COMPANY TRUCK		TICKET DATE 07/21/1996	
FILE NO. 11152					

CONFIDENTIAL

RITCHIE EXPLORATION INC.
125 N MARKET STE 1000
WICHITA, KS 67202

DIRECT CORRESPONDENCE TO:

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

NOV 13
CONFIDENTIAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT (BID)				2,529.81-
	INVOICE BID AMOUNT				6,098.30
	*-KANSAS STATE SALES TAX				206.98
	*-HAYS CITY SALES TAX				42.25
<p>RELEASED</p> <p>JAN 29 1999</p> <p>FROM CONFIDENTIAL</p>					
<p>RECEIVED</p> <p>KANSAS CORPORATION COMMISSION</p> <p>NOV 13 1996</p> <p>CONSERVATION DIVISION WICHITA, KS</p>					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					66,347.53

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

Phone 913-483-2627, Russell, KS

Phone 913-625-5516, Hays, KS

Phone 316-886-5926, Medicine Lodge, KS

Phone 316-793-5861, Great Bend, KS

Phone 913-672-3471, Oakley, KS

Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC.

7170

Home Office P. O. Box 31

Russell, Kansas 67665

(New Well)

OFF LOC. 6:20/AM

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
08-02-96	7	19	21W	12:30/AM	3:30/AM	4:30/AM	5:45/AM
Lease	WELL No.		Location		County	State	
HINEMAN 7-A	1		DIGHTON 35 1/2 W 34 E		LAKE	KS.	

Contractor	PAULS WELL SERVICE	
Type Job	PORT COLLAR CIRCULATE CEMENT	
Hole Size	7 7/8"	T.D. 4670'
Csg.	4 1/2"	Depth 4668'
Tbg. Size	2 7/8"	Depth 2101
Drill Pipe		Depth
Tool	PORT COLLAR	Depth 2101
Cement Left in Csg.		Shoe Joint
Press Max.	500 #	Minimum
Meas Line		Displace
Perf.		

Owner	RITCHIE EXPLORATION	
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Charge To	RITCHIE EXPLORATION	
Street	120 No. MARKET SUITE 1000	
City	WICHITA	State KS 67202
The above was done to satisfaction and supervision of owner agent or contractor.		
Purchase Order No.	K00	
X	NOV 13	
CEMENT CONFIDENTIAL		
Amount Ordered	351 GEL	
Consisting of USED (347 ML) 3% GEL		
Common	174 ML	6.10 1061.40
Poz. Mix	173 ML	3.15 544.95
Gel.	21 ML	9.50 199.50
Chloride		
Quickset		
FLO SEAL 94 #	1.15	108.10
Handling	500	1.05 525.00
Mileage	36	720.00
RECEIVED KANSAS CORPORATION COMMISSION		
		Total \$1 3158.95
NOV 13 1996		
Floating Equipment		
CONSERVATION DIVISION WICHITA, KS		TOTAL \$3811.55

ORIGINAL

EQUIPMENT

Pumptrk	No.	Cementer	Helper	CONFIDENTIAL
224		BUD	BUD	
Pumptrk	No.	Cementer	Helper	RELEASED
			Driver	
Bulktrk	240	BIG W		JAN 29 1999
Bulktrk		Driver		

FROM CONFIDENTIAL

DEPTH of Job	
Reference:	
36	PUMP TRUCK CHARGE 550.00
	PUMP TRUCK MILEAGE 102.60
Total \$652.60	

Remarks: Press Csg to 1500 HWD
 OPENED PORT COLLAR PUMPED 7 BS
 GEL SHURRY MIXED 347 3% 50/50 POZ
 6% GEL CEMENT CIRCULATED CLOSED
 PORT COLLAR PRESS TO 1500 # HWD
 SEE JOB LOG.

Amount Ordered 351 GEL
 Consisting of USED (347 ML) 3% GEL
 Common 174 ML 6.10 1061.40
 Poz. Mix 173 ML 3.15 544.95
 Gel. 21 ML 9.50 199.50
 Chloride
 Quickset
 FLO SEAL 94 # 1.15 108.10
 Handling 500 1.05 525.00
 Mileage 36 720.00
 RECEIVED
 KANSAS CORPORATION COMMISSION
 NOV 13 1996 \$1 Total 3158.95
 Floating Equipment
 CONSERVATION DIVISION
 WICHITA, KS TOTAL \$3811.55
 CEMENT GEL WILKESSEN BY
 DISC - 571.7
 \$3239.8
 HANNAH

Phone 913-483-2627, Russell, KS
 Phone 316-793-5861, Great Bend, KS

Phone 913-625-5516, Hays, KS
 Phone 913-672-3471, Oakley, KS

Phone 316-886-5926, Medicine Lodge, KS
 Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC.

7169

Home Office P. O. Box 31

Russell, Kansas 67665

ORIGINAL

New Well

Date	07-12-96	Sec.	7	Twp.	19	Range	28W	Called Out	2:00 PM	On Location	5:00 PM	Job Start	6:50 PM	Finish	7:05 PM
Lease	HIXEMAN 7-A			Well No.	1			Location	DIGHTON 3E 1 1/2 S E SIDE WAVE			County	KS		
Contractor	WHITE & ELLIS														
Type Job	SURFACE CSG.														
Hole Size	12 1/4"			T.D.	231'										
Csg.	8 5/8" 24#			Depth	230'										
Tbg. Size				Depth											
Drill Pipe				Depth											
Tool				Depth											
Cement Left in Csg.	15'			Shoe Joint											
Press Max.				Minimum											
Meas Line				Displace	13.7 B/S										
Perf.															

Owner **RITCHIE EXPLORATION INC**

To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To **RITCHIE EXPLORATION**

Street **175 NO MARKET** Site **1000**

City **WICHITA** State **KANSAS** **67202**

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. **NOV 13**

Gary Chaul

CEMENT CON

EQUIPMENT

No.	Cementor	BUD	CONFIDENTIAL
Pumptrk 120	Helper	TIM	
No.	Cementor		RELEASED
Pumptrk	Helper		
	Driver	JIM	FROM CONFIDENTIAL
Bulktrk 101	Driver		

Amount Ordered	140 SK 60/40 TOZ 40% CC 2% 6cc	
Consisting of		
Common	84 sk	6.10 512.40
Poz. Mix	56 sk	3.15 176.40
Gel.	3 sk	9.50 28.50
Chloride	6 sk	28.00 168.00
Quickset		
Handling	140	1.05 147.00
Mileage	36	201.60

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KANSAS CORPORATION COMMISSION

NOV 13 1996

Total **\$1233.90**

Floating Equipment	
CONSERVATION DIVISION	
WICHITA, KS	
TOTAL	\$1826.50
Disc	273.98
	\$1552.52

DEPTH of Job	230'	
Reference:	Pump truck CG	445.00
36	Pump truck NICES	102.60
1	Top 8 5/8 WOOD PLUG	45.00
	Total	\$592.60

Remarks: **CGJ AT 230 ft CR HOUSE WAVE**

Mix 140 sk 60/40 Toz 40% CC 2% 6cc

DISPLACED TO 215' CEMENT WAVE

RELEASED

CONFIDENTIAL

ORIGINAL

JAN 29 1999

DST REPORT

FROM CONFIDENTIAL

GENERAL INFORMATION

15-101-21723

DATE : 7/17/96
 CUSTOMER : RITCHIE EXPLORATION INC
 WELL : #1 TEST: 1
 ELEVATION: 2791 GR
 SECTION : 7
 RANGE : 28W COUNTY: LANE
 GAUGE SN#: 13551 RANGE : 4150

TICKET : 21682
 LEASE : HINEMAN 7-A
 GEOLOGIST: MILFORD
 FORMATION: L KANSAS CITY I
 TOWNSHIP : 19S
 STATE : KS
 CLOCK : 12

NOV 15
CONF

WELL INFORMATION

PERFORATION INTERVAL FROM: 4220.00 ft TO: 4250.00 ft TVD: 4250.0 ft
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
 DEPTH OF RECORDERS: 4223.0 ft 4226.0 ft
 TEMPERATURE: 127.0

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 :	4220.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	30.0 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:	4215.0 ft	SIZE:	6.750 in
PACKER DEPTH:	4220.0 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 RIG 9	VISCOSITY :	48.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	11.200 cc
WEIGHT :	9.200 ppg	SERIAL NUMBER:	
CHLORIDES :	3000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK SURFACE BLOW.
 FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2.0	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:	0.0281 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0281 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2084.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	31.00
INITIAL SHUT-IN	30.00		52.00
FINAL FLOW	30.00	31.00	31.00
FINAL SHUT-IN	30.00		52.00

FINAL HYDROSTATIC PRESSURE: 2029.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2071.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	90.18	30.50
INITIAL SHUT-IN	30.00		55.53
FINAL FLOW	30.00	36.94	28.87
FINAL SHUT-IN	30.00		57.22

FINAL HYDROSTATIC PRESSURE: 2041.00

Company: RITCHIE EXPLORATION INC
Well: HINEMAN 7-A #1
Field: TKT 21682 DST 1

[Wednesday: July 17, 1996
Page 1

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

START FLOW 1				
1	0	10:40: 7	0.0000	90.18
9	0	10:41: 4	0.0159	86.63
18	0	10:42: 9	0.0337	79.58
27	0	10:43:13	0.0516	72.54
36	0	10:44:17	0.0694	67.23
45	0	10:45:21	0.0873	63.67
54	0	10:46:26	0.1052	60.11
63	0	10:47:30	0.1231	57.42
72	0	10:48:35	0.1411	55.59
81	0	10:49:40	0.1590	53.77
90	0	10:50:44	0.1770	51.95
99	0	10:51:49	0.1949	50.13
108	0	10:52:54	0.2129	50.05
117	0	10:53:58	0.2309	49.10
126	0	10:55: 3	0.2488	48.15
135	0	10:56: 8	0.2668	48.08
144	0	10:57:12	0.2848	47.13
153	0	10:58:17	0.3028	46.18
162	0	10:59:22	0.3207	46.10
171	0	11: 0:26	0.3387	44.28
180	0	11: 1:31	0.3566	43.33
189	0	11: 2:36	0.3746	41.51
198	0	11: 3:40	0.3925	39.68
207	0	11: 4:45	0.4105	37.86
216	0	11: 5:49	0.4284	36.04
225	0	11: 6:54	0.4464	34.22
234	0	11: 7:59	0.4643	33.27
243	0	11: 9: 3	0.4823	31.45
252	0	11:10: 8	0.5002	30.50
END FLOW 1				
START SHUTIN 1				
260	0	11:11: 5	0.5162	29.56
261	0	11:11:13	0.5182	29.55
270	0	11:12:17	0.5362	28.60
279	0	11:13:22	0.5541	27.65
288	0	11:14:27	0.5721	27.57
297	0	11:15:31	0.5901	26.62
306	0	11:16:36	0.6080	26.55
315	0	11:17:41	0.6260	26.47
324	0	11:18:46	0.6440	26.39
333	0	11:19:50	0.6620	26.31
342	0	11:20:55	0.6800	27.10
351	0	11:22: 0	0.6980	28.76
360	0	11:23: 5	0.7160	28.69
369	0	11:24: 9	0.7340	28.61
378	0	11:25:14	0.7520	29.40
387	0	11:26:19	0.7700	31.06
396	0	11:27:24	0.7880	30.98
405	0	11:28:29	0.8060	32.65
414	0	11:29:34	0.8241	34.31
423	0	11:30:39	0.8421	35.97
432	0	11:31:44	0.8601	38.51
441	0	11:32:49	0.8782	41.04
450	0	11:33:54	0.8962	44.44

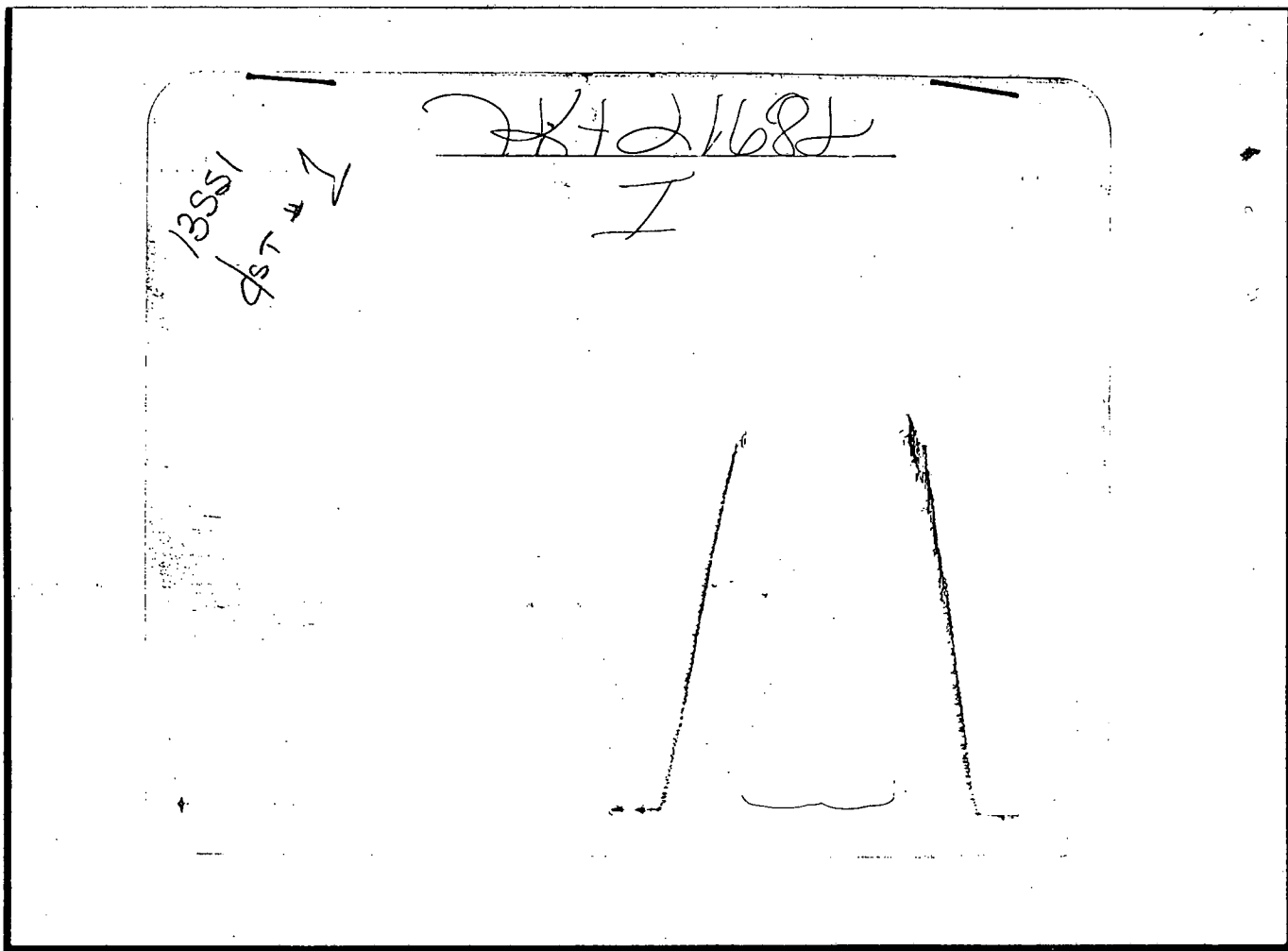
WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC
 Well: HINEMAN 7-A #1
 Field: TKT 21682 DST 1

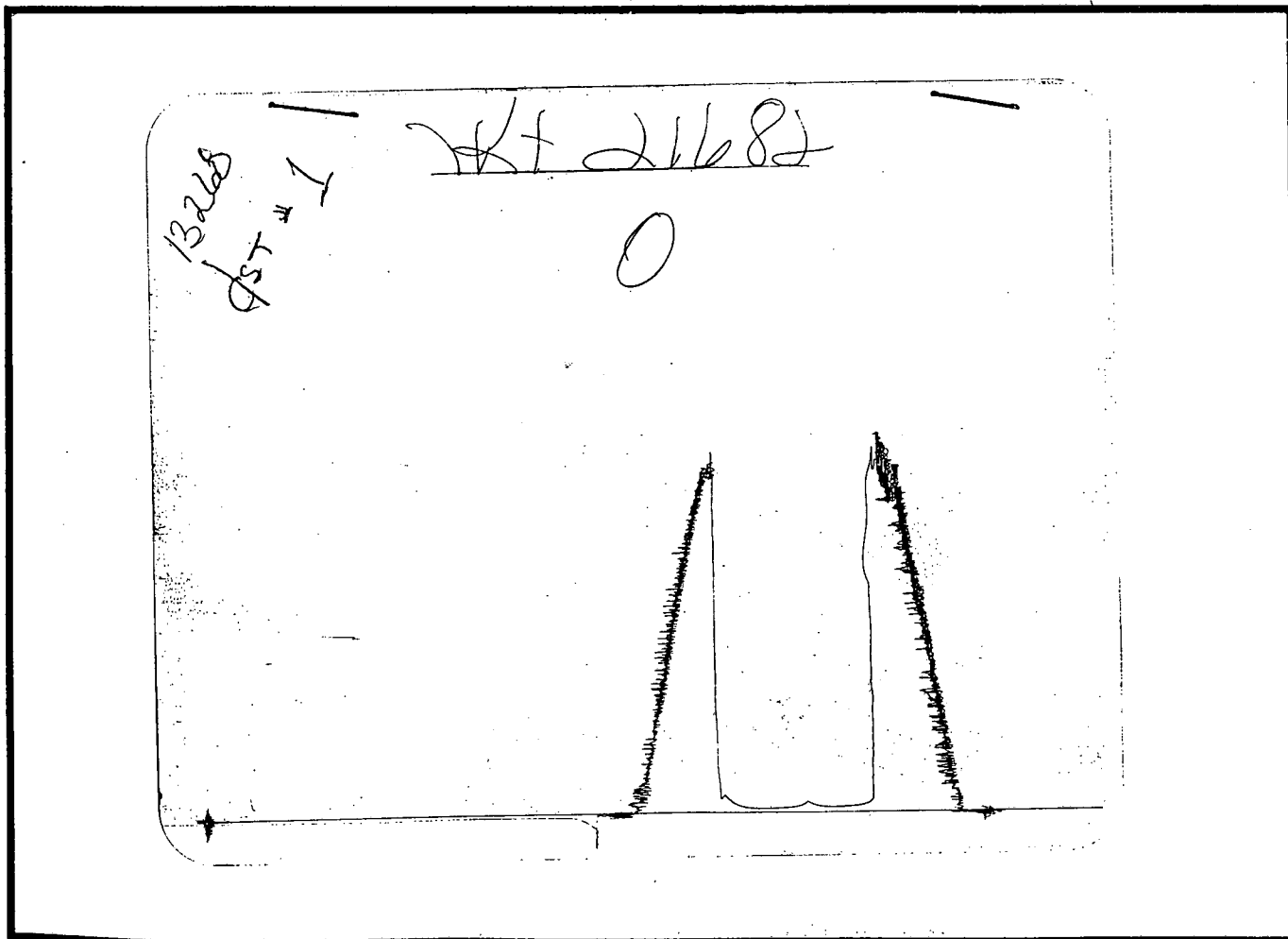
[Wednesday: July 17, 1996
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
459	0	11:34:59	0.9143	47.85
468	0	11:36: 4	0.9324	51.25
477	0	11:37: 9	0.9505	55.53
END SHUTIN 1				
START FLOW 2				
484	0	11:53:11	1.2178	36.94
493	0	11:54:16	1.2357	34.25
502	0	11:55:20	1.2537	32.42
511	0	11:56:25	1.2716	31.47
520	0	11:57:30	1.2896	31.40
529	0	11:58:34	1.3076	29.58
538	0	11:59:39	1.3255	28.63
547	0	12: 0:44	1.3435	27.68
556	0	12: 1:48	1.3615	27.60
565	0	12: 2:53	1.3795	27.52
574	0	12: 3:58	1.3975	27.44
583	0	12: 5: 3	1.4154	26.49
592	0	12: 6: 7	1.4334	26.41
601	0	12: 7:12	1.4514	26.33
610	0	12: 8:17	1.4694	26.25
619	0	12: 9:22	1.4874	26.17
628	0	12:10:26	1.5053	26.09
637	0	12:11:31	1.5233	25.15
646	0	12:12:36	1.5413	26.81
655	0	12:13:40	1.5593	24.99
664	0	12:14:45	1.5773	24.91
673	0	12:15:50	1.5952	24.83
682	0	12:16:55	1.6132	24.75
691	0	12:18: 0	1.6312	25.54
700	0	12:19: 4	1.6492	26.34
709	0	12:20: 9	1.6673	28.87
END FLOW 2				
START SHUTIN 2				
716	0	12:21: 0	1.6813	29.68
718	0	12:21:14	1.6853	29.66
727	0	12:22:19	1.7033	30.45
736	0	12:23:24	1.7213	31.25
745	0	12:24:29	1.7393	32.04
754	0	12:25:33	1.7573	32.83
763	0	12:26:38	1.7753	34.49
772	0	12:27:43	1.7933	35.28
781	0	12:28:48	1.8113	36.95
790	0	12:29:53	1.8294	37.74
799	0	12:30:58	1.8474	39.40
808	0	12:32: 2	1.8654	40.19
817	0	12:33: 7	1.8834	41.86
826	0	12:34:12	1.9014	44.39
835	0	12:35:17	1.9195	46.05
844	0	12:36:22	1.9376	51.20
853	0	12:37:28	1.9557	57.22

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 7/18/96
CUSTOMER : RITCHIE EXPLORATION INC
WELL : #1 TEST: 2
ELEVATION: 2791 GR
SECTION : 7
RANGE : 28W COUNTY: LANE
GAUGE SN#: 13551 RANGE : 4150
TICKET : 21683
LEASE : HINEMAN 7-A
GEOLOGIST: MILFORD
FORMATION: L KANSAS CITY K
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4284.00 ft TO: 4306.00 ft TVD: 4306.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4287.0 ft 4290.0 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 :	4264.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	22.0 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:	4279.0 ft	SIZE:	6.750 in
PACKER DEPTH:	4284.0 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 RIG 9
MUD TYPE : CHEMICAL
WEIGHT : 9.200 ppg
CHLORIDES : 3000 ppm
JARS-MAKE :
DID WELL FLOW?: NO
VISCOSITY : 48.00 cp
WATER LOSS: 11.200 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 15 MINUTES. FINAL FLOW PERIOD STRONG BLOW -
10 INCHES IN WATER.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	60 FT GAS ABOVE FLUID
244.0	0.5	0.0	60.5	40.0	MUDDY WTR W/SL TRACE OIL
976.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 38000 PPM

RATE INFORMATION

OIL VOLUME:	0.0171 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.6800 STB/D
MUD VOLUME:	1.3690 STB	AVERAGE WATER RATE:	410.8331 STB/D
WATER VOLUME:	15.7603 STB		
TOTAL FLUID :	17.1464 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2133.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	104.00	303.00
INITIAL SHUT-IN	30.00		889.00
FINAL FLOW	30.00	428.00	543.00
FINAL SHUT-IN	30.00		857.00

FINAL HYDROSTATIC PRESSURE: 2112.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2128.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	130.55	323.36
INITIAL SHUT-IN	30.00		876.01
FINAL FLOW	30.00	434.69	554.91
FINAL SHUT-IN	30.00		870.77

FINAL HYDROSTATIC PRESSURE: 2093.00

Company: RITCHIE EXPLORATION INC
 Well: HINEMAN 7-A #1
 Field: TKT 21683 DST 2

[Thursday: July 18, 1996]
 Page 1

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

START FLOW 1				
1	0	3:55: 5	0.0000	130.55
9	0	3:56: 3	0.0161	127.21
18	0	3:57: 9	0.0344	121.28
27	0	3:58:14	0.0526	117.96
36	0	3:59:20	0.0706	116.38
45	0	4: 0:24	0.0887	115.67
54	0	4: 1:29	0.1066	116.71
63	0	4: 2:33	0.1245	118.61
72	0	4: 3:38	0.1423	122.26
81	0	4: 4:42	0.1601	125.91
90	0	4: 5:45	0.1778	132.17
99	0	4: 6:49	0.1955	138.42
108	0	4: 7:52	0.2131	146.42
117	0	4: 8:56	0.2307	155.30
126	0	4: 9:59	0.2482	165.04
135	0	4:11: 2	0.2657	174.78
144	0	4:12: 5	0.2832	186.26
153	0	4:13: 7	0.3006	197.75
162	0	4:14:10	0.3180	209.23
171	0	4:15:13	0.3356	218.97
180	0	4:16:16	0.3530	230.45
189	0	4:17:19	0.3705	240.20
198	0	4:18:22	0.3880	251.68
207	0	4:19:25	0.4054	263.16
216	0	4:20:28	0.4229	273.78
225	0	4:21:31	0.4404	283.52
234	0	4:22:34	0.4579	293.26
243	0	4:23:37	0.4755	303.00
252	0	4:24:40	0.4929	313.61
261	0	4:25:43	0.5105	323.36
END FLOW 1				
START SHUTIN 1				
262	0	4:25:34	0.5080	417.42
281	0	4:26:49	0.5289	773.91
290	0	4:27:50	0.5458	796.71
299	0	4:28:53	0.5632	809.07
308	0	4:29:56	0.5808	817.94
317	0	4:30:59	0.5984	825.07
326	0	4:32: 3	0.6161	831.32
335	0	4:33: 7	0.6339	835.84
344	0	4:34:11	0.6516	841.23
353	0	4:35:15	0.6694	845.75
362	0	4:36:19	0.6872	850.26
371	0	4:37:23	0.7049	854.78
380	0	4:38:27	0.7227	858.43
389	0	4:39:31	0.7405	862.95
398	0	4:40:35	0.7584	865.72
407	0	4:41:40	0.7762	868.50
416	0	4:42:44	0.7941	870.40
425	0	4:43:49	0.8121	871.44
434	0	4:44:53	0.8300	872.47
443	0	4:45:58	0.8479	873.50
452	0	4:47: 2	0.8659	874.54
461	0	4:48: 7	0.8838	874.70

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC
Well: HINEMAN 7-A #1
Field: TKT 21683 DST 2

[Thursday: July 18, 199
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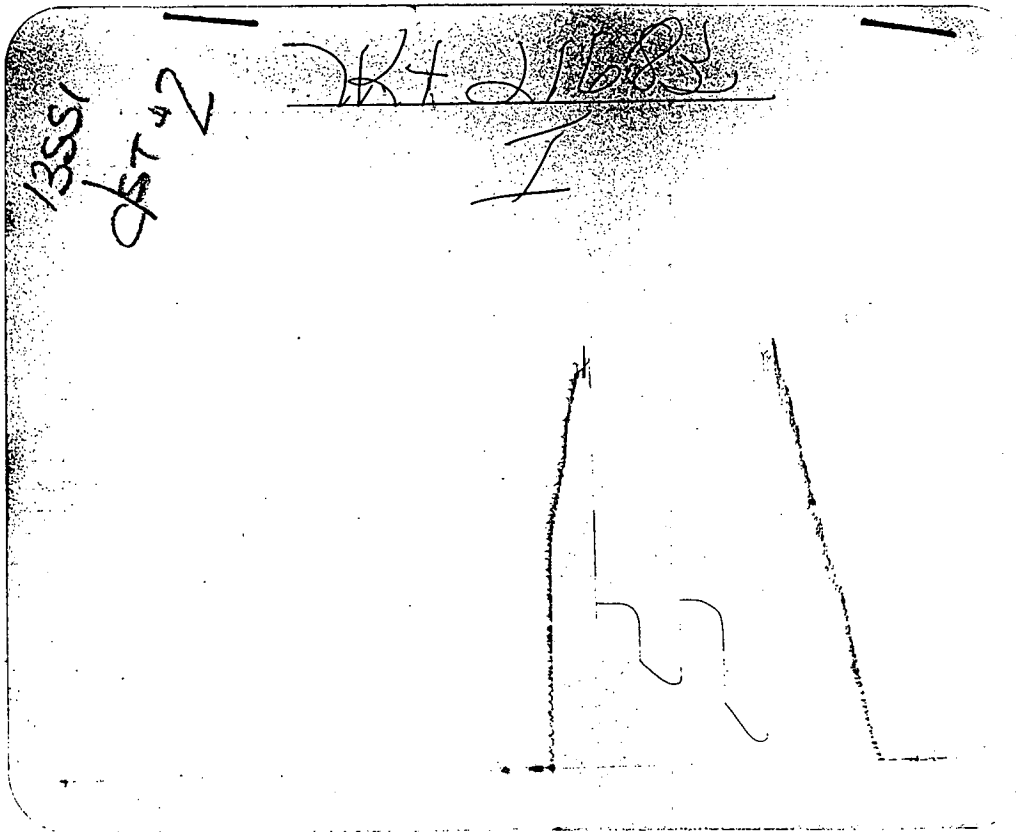
REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
470	0	4:49:12	0.9018	874.86
479	0	4:50:17	0.9198	875.03
488	0	4:51:21	0.9378	875.19
497	0	4:52:26	0.9558	875.35
506	0	4:53:31	0.9738	875.52
515	0	4:54:35	0.9917	876.55
524	0	4:55:40	1.0097	875.84
533	0	4:56:45	1.0277	876.01
		END SHUTIN 1		
		START FLOW 2		
540	0	4:59: 6	1.0668	434.69
549	0	5: 0:11	1.0848	433.98
558	0	5: 1:16	1.1029	432.40
567	0	5: 2:20	1.1209	431.70
576	0	5: 3:25	1.1389	430.99
585	0	5: 4:30	1.1569	431.15
594	0	5: 5:35	1.1749	431.32
603	0	5: 6:39	1.1928	433.22
612	0	5: 7:44	1.2106	436.00
621	0	5: 8:48	1.2285	439.64
630	0	5: 9:52	1.2462	445.03
639	0	5:10:56	1.2640	448.68
648	0	5:12: 0	1.2818	452.32
657	0	5:13: 3	1.2995	458.58
666	0	5:14: 7	1.3172	464.84
675	0	5:15:10	1.3347	474.58
684	0	5:16:14	1.3525	478.23
693	0	5:17:18	1.3703	482.75
702	0	5:18:22	1.3880	489.00
711	0	5:19:25	1.4056	497.88
720	0	5:20:29	1.4233	503.26
729	0	5:21:33	1.4410	509.52
738	0	5:22:36	1.4586	516.65
747	0	5:23:40	1.4763	523.78
756	0	5:24:44	1.4940	530.04
765	0	5:25:47	1.5117	536.30
774	0	5:26:50	1.5292	546.04
783	0	5:27:54	1.5468	554.91
		END FLOW 2		
		START SHUTIN 2		
787	0	5:27:57	1.5477	701.27
797	0	5:28:55	1.5639	782.44
806	0	5:29:56	1.5808	805.24
815	0	5:30:59	1.5982	816.72
824	0	5:32: 1	1.6156	828.21
833	0	5:33: 5	1.6332	837.08
842	0	5:34: 8	1.6508	844.21
851	0	5:35:12	1.6686	848.73
860	0	5:36:16	1.6864	853.24
869	0	5:37:20	1.7042	856.89
878	0	5:38:25	1.7221	858.79
887	0	5:39:29	1.7400	860.70
896	0	5:40:34	1.7579	862.60
905	0	5:41:38	1.7758	863.64
914	0	5:42:43	1.7938	864.67

Company: RITCHIE EXPLORATION INC
Well: HINEMAN 7-A #1
Field: TKT 21683 DST 2

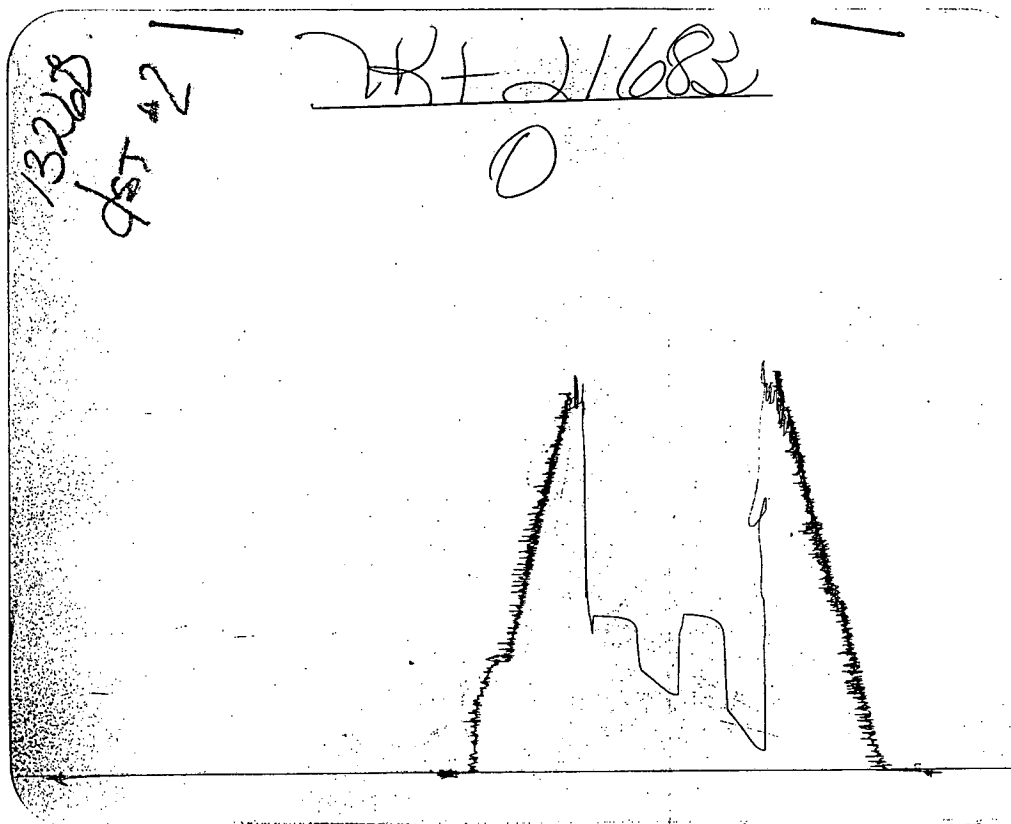
[Thursday: July 18, 1996]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
923	0	5:43:48	1.8118	864.84
932	0	5:44:52	1.8297	865.00
941	0	5:45:57	1.8477	865.16
950	0	5:47: 2	1.8657	865.33
959	0	5:48: 6	1.8837	865.49
968	0	5:49:11	1.9017	865.65
977	0	5:50:16	1.9196	865.82
986	0	5:51:21	1.9376	866.85
995	0	5:52:25	1.9556	867.01
1004	0	5:53:30	1.9735	867.18
1013	0	5:54:35	1.9915	867.34
1022	0	5:55:39	2.0095	868.37
1031	0	5:56:44	2.0274	868.54
1040	0	5:57:49	2.0454	868.70
1049	0	5:58:53	2.0634	869.73
1058	0	5:59:58	2.0813	870.77

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 7/18/96
CUSTOMER : RITCHIE EXPLORATION INC
WELL : #1 TEST: 3
ELEVATION: 2791 GR
SECTION : 7
RANGE : 28W COUNTY: LANE
GAUGE SN#: 13551 RANGE : 4150
TICKET : 21684
LEASE : HINEMAN 7-A
GEOLOGIST: MILFORD
FORMATION: L KANSAS CITY L
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4324.00 ft TO: 4338.00 ft TVD: 4338.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4327.0 ft 4330.0 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 :	4304.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	14.0 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:	4319.0 ft	SIZE:	6.750 in
PACKER DEPTH:	4324.0 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 RIG 9
MUD TYPE : CHEMICAL
WEIGHT : 9.300 ppg
CHLORIDES : 3200 ppm
JARS-MAKE :
DID WELL FLOW?: NO
VISCOSITY : 46.00 cp
WATER LOSS: 11.200 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD NO BLOW.
FINAL FLOW PERIOD NO BLOW - FLUSHED TOOL.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2.0	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:	0.0281	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0281	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2175.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	25.00	25.00
INITIAL SHUT-IN	30.00		25.00
FINAL FLOW	30.00	25.00	25.00
FINAL SHUT-IN	30.00		25.00

FINAL HYDROSTATIC PRESSURE: 2133.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2177.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	73.40	30.75
INITIAL SHUT-IN	30.00		27.27
FINAL FLOW	30.00	27.33	32.60
FINAL SHUT-IN	30.00		28.34

FINAL HYDROSTATIC PRESSURE: 2153.00

Company: RITCHIE EXPLORATION INC
 Well: HINEMAN 7-A #1
 Field: TKT 21684 DST 3

[Thursday: July 18, 1996]
 Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	17:10: 5	0.0000	73.40
9	0	17:11: 2	0.0160	73.43
18	0	17:12: 7	0.0340	69.11
27	0	17:13:12	0.0520	64.79
36	0	17:14:17	0.0701	62.20
45	0	17:15:22	0.0881	59.62
54	0	17:16:26	0.1060	58.78
63	0	17:17:31	0.1241	57.08
72	0	17:18:36	0.1421	53.62
81	0	17:19:41	0.1601	53.66
90	0	17:20:46	0.1781	51.08
99	0	17:21:51	0.1961	47.62
108	0	17:22:55	0.2141	45.04
117	0	17:24: 0	0.2321	44.20
126	0	17:25: 5	0.2501	39.88
135	0	17:26:10	0.2681	39.04
144	0	17:27:15	0.2861	38.20
153	0	17:28:19	0.3041	39.11
162	0	17:29:24	0.3221	37.40
171	0	17:30:29	0.3401	34.82
180	0	17:31:34	0.3581	34.85
189	0	17:32:38	0.3761	34.88
198	0	17:33:43	0.3941	34.04
207	0	17:34:48	0.4120	34.07
216	0	17:35:53	0.4300	33.24
225	0	17:36:57	0.4480	33.27
234	0	17:38: 2	0.4660	33.30
243	0	17:39: 7	0.4840	29.85
252	0	17:40:12	0.5020	30.75
END FLOW 1				
START SHUTIN 1				
259	0	17:41: 2	0.5160	29.91
261	0	17:41:17	0.5200	29.91
270	0	17:42:21	0.5380	29.94
279	0	17:43:26	0.5560	29.98
288	0	17:44:31	0.5739	30.01
297	0	17:45:36	0.5919	29.17
306	0	17:46:40	0.6099	29.20
315	0	17:47:45	0.6279	28.36
324	0	17:48:50	0.6459	28.40
333	0	17:49:55	0.6639	28.43
342	0	17:50:59	0.6819	26.72
351	0	17:52: 4	0.6999	27.62
360	0	17:53: 9	0.7178	26.78
369	0	17:54:14	0.7358	26.81
378	0	17:55:18	0.7538	26.85
387	0	17:56:23	0.7718	26.88
396	0	17:57:28	0.7898	26.91
405	0	17:58:33	0.8078	26.94
414	0	17:59:37	0.8258	26.98
423	0	18: 0:42	0.8438	27.01
432	0	18: 1:47	0.8617	27.91
441	0	18: 2:52	0.8797	27.94
450	0	18: 3:56	0.8977	26.23

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC
 Well: HINEMAN 7-A #1
 Field: TKT 21684 DST 3

[Thursday: July 18, 199
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
459	0	18: 5: 1	0.9157	27.14
468	0	18: 6: 6	0.9337	28.04
477	0	18: 7:11	0.9516	28.07
486	0	18: 8:15	0.9696	28.10
495	0	18: 9:20	0.9876	27.27
		END SHUTIN 1		
		START FLOW 2		
497	0	18:11:30	1.0236	27.33
506	0	18:12:34	1.0416	29.97
515	0	18:13:39	1.0595	30.01
		FLUSHED TOOL		
516	0	18:13: 3	1.0495	1304.68
534	0	18:14:43	1.0773	2166.69
537	0	18:16:13	1.1022	164.21
545	0	18:17:14	1.1192	64.95
554	0	18:18:18	1.1372	60.63
563	0	18:19:23	1.1552	58.05
572	0	18:20:28	1.1732	52.86
581	0	18:21:33	1.1913	49.40
590	0	18:22:38	1.2093	46.82
599	0	18:23:43	1.2273	45.11
608	0	18:24:48	1.2453	44.27
617	0	18:25:52	1.2632	42.56
626	0	18:26:57	1.2812	42.60
635	0	18:28: 2	1.2992	40.89
644	0	18:29: 7	1.3172	41.79
653	0	18:30:11	1.3352	40.08
662	0	18:31:16	1.3532	39.24
671	0	18:32:21	1.3712	37.53
680	0	18:33:26	1.3892	37.56
689	0	18:34:31	1.4072	35.85
698	0	18:35:35	1.4252	35.02
707	0	18:36:40	1.4432	34.18
716	0	18:37:45	1.4612	34.21
725	0	18:38:50	1.4792	34.24
734	0	18:39:54	1.4972	33.40
743	0	18:40:59	1.5151	32.56
752	0	18:42: 4	1.5331	32.60
		END FLOW 2		
		START SHUTIN 2		
756	0	18:42:33	1.5411	32.61
761	0	18:43: 9	1.5511	32.63
770	0	18:44:13	1.5691	32.66
779	0	18:45:18	1.5871	32.69
788	0	18:46:23	1.6051	32.72
797	0	18:47:28	1.6231	32.76
806	0	18:48:32	1.6410	32.79
815	0	18:49:37	1.6590	31.95
824	0	18:50:42	1.6770	31.98
833	0	18:51:47	1.6950	32.01
842	0	18:52:51	1.7130	31.18
851	0	18:53:56	1.7310	30.34
860	0	18:55: 1	1.7490	29.50
869	0	18:56: 6	1.7670	28.66

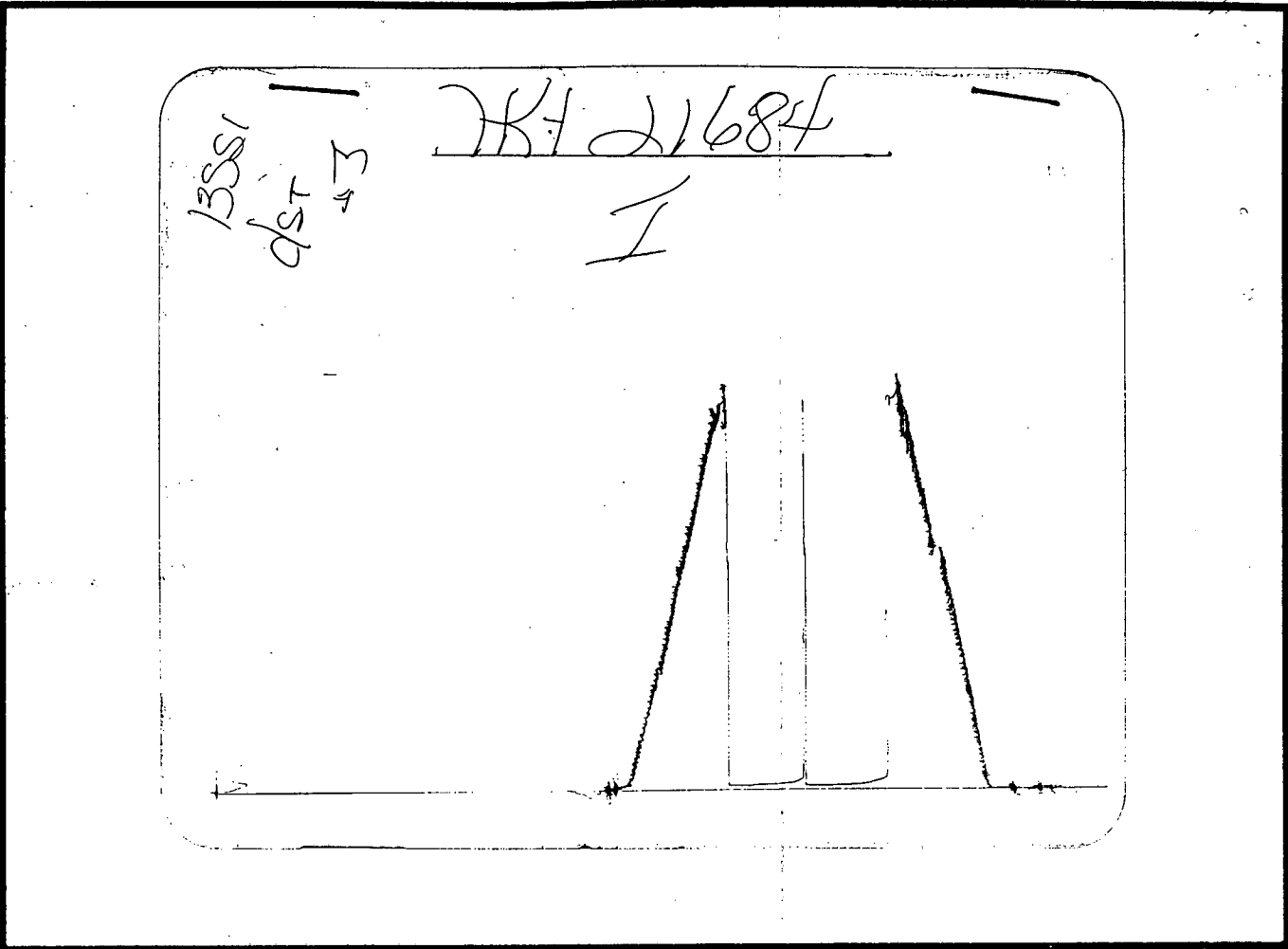
WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC
Well: HINEMAN 7-A #1
Field: TKT 21684 DST 3

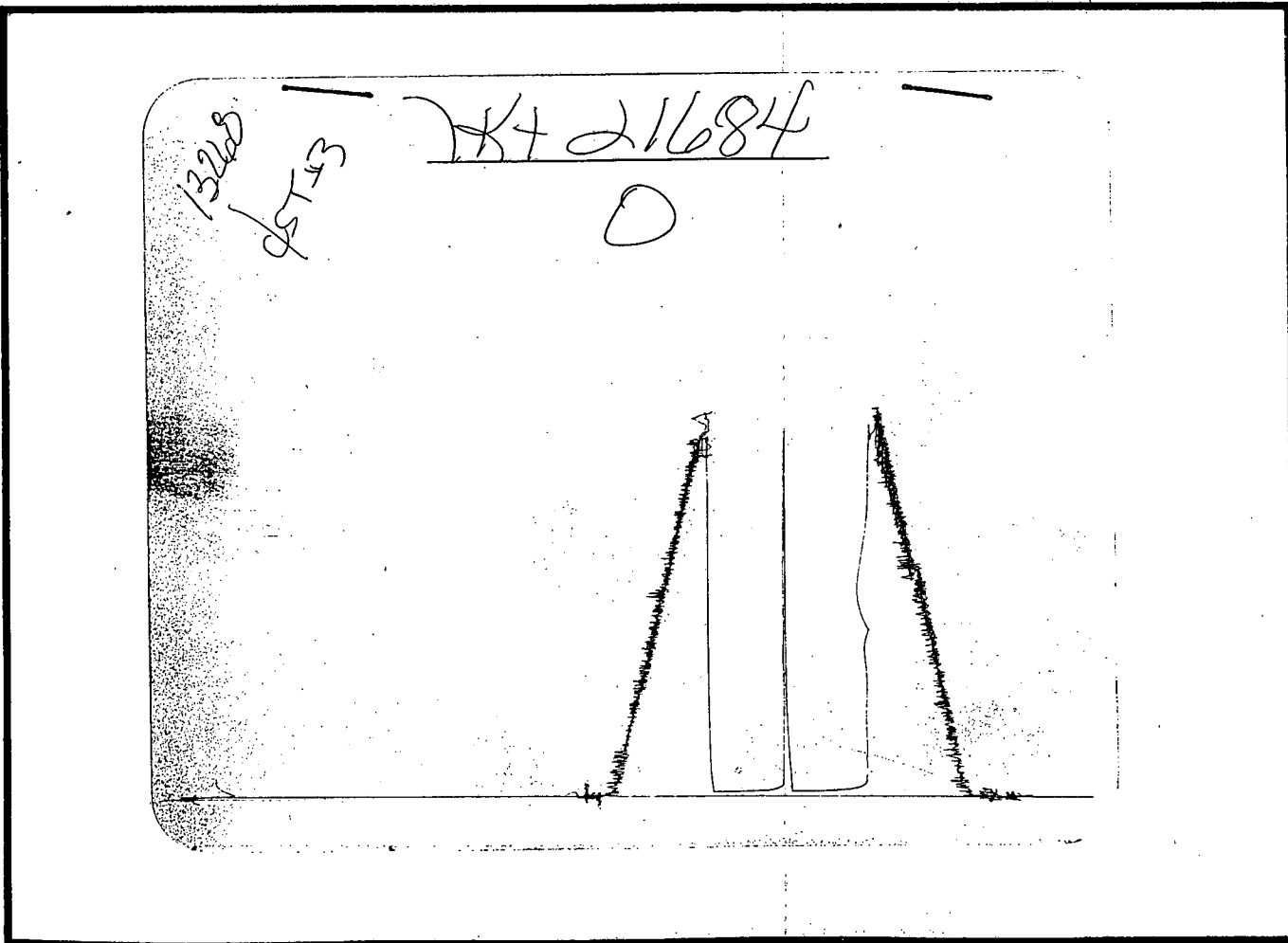
[Thursday: July 18, 1996]
Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
878	0	18:57:10	1.7850	27.82
887	0	18:58:15	1.8030	27.85
896	0	18:59:20	1.8209	27.89
905	0	19: 0:25	1.8389	27.05
914	0	19: 1:29	1.8569	27.08
923	0	19: 2:34	1.8749	27.11
932	0	19: 3:39	1.8929	27.14
941	0	19: 4:44	1.9109	28.05
950	0	19: 5:48	1.9289	27.21
959	0	19: 6:53	1.9468	27.24
968	0	19: 7:58	1.9648	29.01
977	0	19: 9: 3	1.9828	29.05
986	0	19:10: 7	2.0008	29.08
995	0	19:11:12	2.0188	28.24
1004	0	19:12:17	2.0367	28.27
1013	0	19:13:22	2.0547	28.30
1022	0	19:14:26	2.0727	28.34

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 7/19/96
CUSTOMER : RITCHIE EXPLORATION INC
WELL : #1 TEST: 4
ELEVATION: 2791 GR
SECTION : 7
RANGE : 28W COUNTY: LANE
GAUGE SN#: 13551 RANGE : 4150
TICKET : 21685
LEASE : HINEMAN 7-A
GEOLOGIST: MILFORD
FORMATION: PLEASANT
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4373.00 ft TO: 4395.00 ft TVD: 4395.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4376.0 ft 4379.0 ft
TEMPERATURE: 129.0

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 :	4353.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	22.0 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:	4368.0 ft	SIZE:	6.750 in
PACKER DEPTH:	4373.0 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 RIG 9
MUD TYPE : CHEMICAL
WEIGHT : 9.300 ppg
CHLORIDES : 3200 ppm
JARS-MAKE :
DID WELL FLOW?: NO
VISCOSITY : 46.00 cp
WATER LOSS: 11.200 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW BOTTOM OF BUCKET
IN 28 MINUTES. FINAL FLOW PERIOD STRONG BLOW
BOTTOM OF BUCKET IN 20 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	660 FT GAS ABOVE FLUID
20.0	100.0	0.0	0.0	0.0	OIL
0.0	0.0	0.0	0.0	0.0	39 GRAVITY COR 60 DEG. F.
110.0	55.0	0.0	0.0	45.0	MUD CUT OIL

RATE INFORMATION

OIL VOLUME:	1.1291 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	29.1748 STB/D
MUD VOLUME:	0.6943 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	1.8234 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2164.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	31.00	31.00
INITIAL SHUT-IN	45.00		575.00
FINAL FLOW	45.00	52.00	52.00
FINAL SHUT-IN	45.00		564.00

FINAL HYDROSTATIC PRESSURE: 2143.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2216.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	90.43	45.10
INITIAL SHUT-IN	45.00		589.51
FINAL FLOW	45.00	100.59	91.72
FINAL SHUT-IN	45.00		588.66

FINAL HYDROSTATIC PRESSURE: 2149.00

Company: RITCHIE EXPLORATION INC
Well: HINEMAN 7-A #1
Field: TKT 21685 DST 4

[Friday: July 19, 1996]
Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	8:20:48	0.0000	90.43
3	0	8:21: 2	0.0040	90.39
12	0	8:22: 7	0.0219	88.50
21	0	8:23:11	0.0397	83.13
30	0	8:24:15	0.0575	79.50
39	0	8:25:19	0.0753	74.99
48	0	8:26:23	0.0931	72.23
57	0	8:27:28	0.1111	71.21
66	0	8:28:32	0.1290	68.45
75	0	8:29:37	0.1469	67.43
84	0	8:30:41	0.1648	65.54
93	0	8:31:46	0.1828	65.39
102	0	8:32:50	0.2007	63.50
111	0	8:33:55	0.2186	62.48
120	0	8:35: 0	0.2366	62.33
129	0	8:36: 5	0.2546	63.06
138	0	8:37: 9	0.2726	62.91
147	0	8:38:14	0.2906	61.89
156	0	8:39:19	0.3086	61.74
165	0	8:40:23	0.3265	59.85
174	0	8:41:28	0.3444	59.70
183	0	8:42:32	0.3624	58.68
192	0	8:43:36	0.3802	54.18
201	0	8:44:41	0.3981	53.16
210	0	8:45:46	0.4161	53.01
219	0	8:46:50	0.4340	51.12
228	0	8:47:55	0.4520	50.97
237	0	8:49: 0	0.4700	50.82
246	0	8:50: 4	0.4879	48.93
255	0	8:51: 9	0.5059	48.78
264	0	8:52:14	0.5238	48.63
273	0	8:53:18	0.5418	47.61
282	0	8:54:23	0.5598	47.46
291	0	8:55:28	0.5778	49.05
300	0	8:56:33	0.5958	48.04
309	0	8:57:37	0.6137	47.02
318	0	8:58:42	0.6317	46.87
327	0	8:59:47	0.6497	46.72
336	0	9: 0:51	0.6676	46.57
345	0	9: 1:56	0.6857	47.29
354	0	9: 3: 1	0.7036	46.27
363	0	9: 4: 6	0.7216	46.12
372	0	9: 5:10	0.7395	45.10
END FLOW 1				
START SHUTIN 1				
381	0	9: 6:15	0.7576	45.82
390	0	9: 7:20	0.7756	46.55
399	0	9: 8:25	0.7937	49.88
408	0	9: 9:32	0.8123	63.66
416	0	9:10:35	0.8298	98.36
423	0	9:11:37	0.8470	171.40
430	0	9:12:39	0.8643	247.04
437	0	9:13:39	0.8810	308.75
445	0	9:14:45	0.8991	358.26

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC
 Well: HINEMAN 7-A #1
 Field: TKT 21685 DST 4

[Friday: July 19, 1996]
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
453	0	9:15:49	0.9169	399.92
461	0	9:16:51	0.9342	430.27
469	0	9:17:52	0.9511	451.03
478	0	9:18:59	0.9697	463.95
487	0	9:20: 5	0.9882	475.99
496	0	9:21:12	1.0066	487.16
505	0	9:22:18	1.0251	497.46
514	0	9:23:24	1.0434	506.02
523	0	9:24:30	1.0618	513.71
532	0	9:25:36	1.0800	519.66
541	0	9:26:42	1.0983	526.47
550	0	9:27:47	1.1165	530.68
559	0	9:28:53	1.1347	536.63
568	0	9:29:58	1.1529	540.83
577	0	9:31: 4	1.1711	545.04
586	0	9:32: 9	1.1893	550.11
595	0	9:33:15	1.2074	553.45
604	0	9:34:20	1.2255	556.78
613	0	9:35:25	1.2437	560.11
622	0	9:36:30	1.2618	562.58
631	0	9:37:35	1.2799	565.04
640	0	9:38:41	1.2980	568.38
649	0	9:39:46	1.3161	570.84
658	0	9:40:51	1.3342	574.17
667	0	9:41:56	1.3524	577.51
676	0	9:43: 1	1.3704	578.23
685	0	9:44: 6	1.3885	580.69
694	0	9:45:11	1.4065	582.29
703	0	9:46:16	1.4246	583.01
712	0	9:47:21	1.4426	584.60
721	0	9:48:26	1.4606	585.32
730	0	9:49:31	1.4787	586.92
739	0	9:50:36	1.4967	587.64
748	0	9:51:41	1.5147	588.36
757	0	9:52:46	1.5327	588.21
766	0	9:53:51	1.5508	589.80
775	0	9:54:55	1.5687	589.65
784	0	9:56: 0	1.5867	589.51
		END SHUTIN 1		
		START FLOW 2		
785	0	9:57:36	1.6134	100.59
794	0	9:58:41	1.6314	100.44
803	0	9:59:45	1.6493	98.55
812	0	10: 0:49	1.6671	94.92
821	0	10: 1:54	1.6850	92.15
830	0	10: 2:58	1.7029	91.13
839	0	10: 4: 3	1.7208	89.24
848	0	10: 5: 7	1.7388	88.22
857	0	10: 6:12	1.7567	87.20
866	0	10: 7:17	1.7747	87.06
875	0	10: 8:21	1.7926	86.04
884	0	10: 9:26	1.8106	85.89
893	0	10:10:31	1.8286	84.87
902	0	10:11:35	1.8465	84.72
911	0	10:12:40	1.8645	84.57

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC
Well: HINEMAN 7-A #1
Field: TKT 21685 DST 4

[Friday: July 19, 1996]
Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
920	0	10:13:45	1.8824	82.68
929	0	10:14:49	1.9004	81.66
938	0	10:15:54	1.9183	80.64
947	0	10:16:58	1.9363	79.62
956	0	10:18: 3	1.9542	78.60
965	0	10:19: 8	1.9721	77.58
974	0	10:20:12	1.9901	76.56
983	0	10:21:17	2.0081	76.41
992	0	10:22:21	2.0260	74.52
1001	0	10:23:26	2.0439	73.50
1010	0	10:24:31	2.0619	72.48
1019	0	10:25:35	2.0799	72.33
1028	0	10:26:40	2.0978	72.18
1037	0	10:27:45	2.1158	72.04
1046	0	10:28:50	2.1338	71.89
1055	0	10:29:54	2.1518	71.74
1064	0	10:30:59	2.1698	71.59
1073	0	10:32: 4	2.1878	71.44
1082	0	10:33: 9	2.2058	72.16
1091	0	10:34:13	2.2238	72.01
1100	0	10:35:18	2.2418	72.73
1109	0	10:36:23	2.2598	73.46
1118	0	10:37:28	2.2778	74.18
1127	0	10:38:33	2.2958	74.03
1136	0	10:39:38	2.3138	74.75
1145	0	10:40:42	2.3318	75.47
1154	0	10:41:48	2.3499	77.94
1163	0	10:42:54	2.3685	91.72
		END FLOW 2		
		START SHUTIN 2		
1170	0	10:43:51	2.3843	132.53
1171	0	10:43:59	2.3865	137.74
1179	0	10:45: 6	2.4050	195.08
1186	0	10:46: 8	2.4223	271.60
1194	0	10:47:13	2.4404	320.23
1202	0	10:48:20	2.4589	375.83
1210	0	10:49:21	2.4759	399.21
1218	0	10:50:22	2.4929	424.33
1226	0	10:51:23	2.5097	442.48
1234	0	10:52:23	2.5264	458.03
1243	0	10:53:30	2.5450	472.68
1252	0	10:54:37	2.5636	485.59
1261	0	10:55:43	2.5820	495.89
1270	0	10:56:49	2.6004	504.45
1279	0	10:57:55	2.6186	510.40
1288	0	10:59: 1	2.6369	517.22
1297	0	11: 0: 6	2.6551	522.29
1306	0	11: 1:12	2.6733	527.37
1315	0	11: 2:17	2.6915	531.57
1324	0	11: 3:23	2.7097	536.65
1333	0	11: 4:28	2.7279	540.86
1342	0	11: 5:33	2.7460	544.19
1351	0	11: 6:39	2.7642	548.40
1360	0	11: 7:44	2.7823	551.73
1369	0	11: 8:49	2.8004	555.06

WESTERN TESTING CO., INC.

Company: RITCHIE EXPLORATION INC
Well: HINEMAN 7-A #1
Field: TKT 21685 DST 4

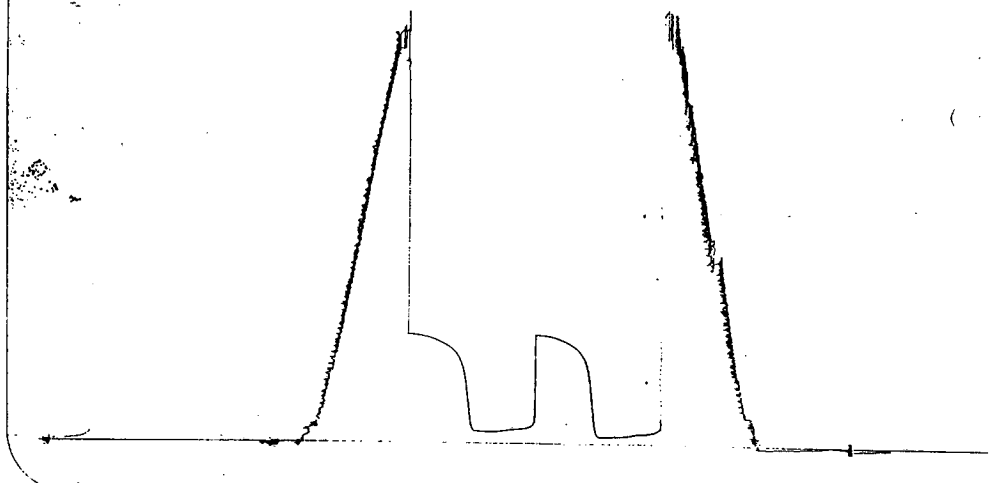
[Friday: July 19, 1996]
Page 4

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1378	0	11: 9:55	2.8186	558.40
1387	0	11:11: 0	2.8367	561.73
1396	0	11:12: 5	2.8548	565.07
1405	0	11:13:10	2.8729	567.53
1414	0	11:14:16	2.8910	569.99
1423	0	11:15:21	2.9091	572.46
1432	0	11:16:26	2.9272	574.05
1441	0	11:17:31	2.9452	575.64
1450	0	11:18:36	2.9633	577.24
1459	0	11:19:41	2.9814	578.83
1468	0	11:20:46	2.9994	580.42
1477	0	11:21:51	3.0175	582.01
1486	0	11:22:56	3.0355	583.61
1495	0	11:24: 1	3.0536	585.20
1504	0	11:25: 5	3.0716	585.05
1513	0	11:26:10	3.0896	585.77
1522	0	11:27:15	3.1076	586.49
1531	0	11:28:20	3.1256	586.35
1540	0	11:29:25	3.1437	587.94
1549	0	11:30:30	3.1617	588.66

WESTERN TESTING CO., INC.

13251
QST# 4

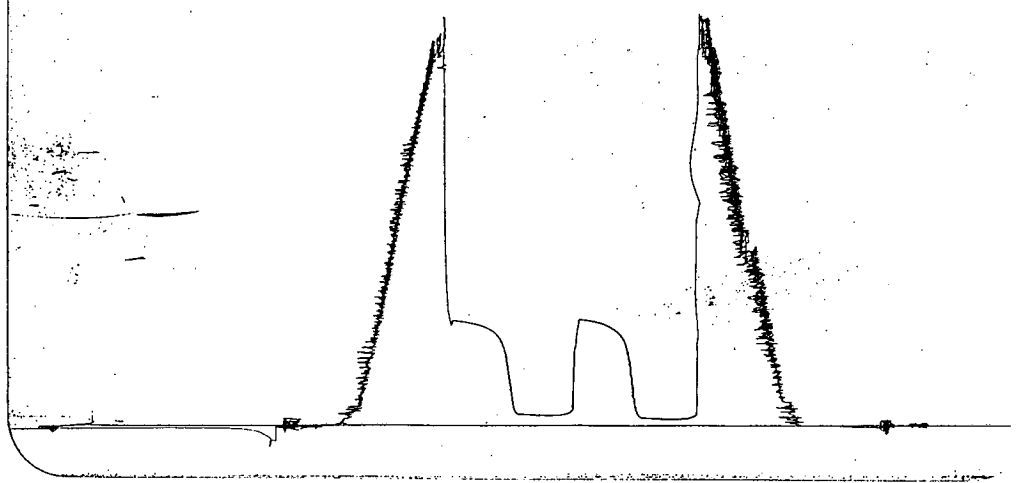
K4 21685
I



Inside Recorder

13268
QST# 4

K4 21685
O



Outside Recorder