

ORIGINAL

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

API NO. 15- 185-230430000

County Stafford

C - SW - NE - SE Sec. 17 Twp. 25S Rge. 14 XX W

1650 Feet from SN (circle one) Line of Section

990 Feet from W (circle one) Line of Section

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

Lease Name Toland Well # A-1

Field Name Wildcat

Producing Formation N/A

Elevation: Ground 1975 KB 1984

Total Depth 4250 PBD

Amount of Surface Pipe Set and Cemented at 267 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set N/A Feet

If Alternate II completion, cement circulated from N/A

feet depth to N/A w/ N/A sx cmt.

Drilling Fluid Management Plan D2A 92 12-4-97
(Data must be collected from the Reserve Pit)

Chloride content 10,000 ppm Fluid volume bbls

Dewatering method used Steel pits were used

Location of fluid disposal if hauled offsite:

Operator Name Gee Oil Service

Lease Name Hyter License No. 03546

NE/4 Quarter Sec. 12 Twp. 24 S Rng. 15 W

County Stafford Docket No. D19913

Operator: License # 5010

Name: Knighton Oil Company, Inc.

Address 221 S. Broadway

Suite 710 Petroleum Building

City/State/Zip Wichita, Kansas 67202

Purchaser:

Operator Contact Person: Earl M. Knighton, Jr.

Phone (316) 264-7918

Contractor: Name: Duke Drilling Co., Inc

License: 5929

Wellsite Geologist: David D. Montague

Designate Type of Completion

X New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

X 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 PBD

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

2/11/97 2/19/97 2/20/97

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 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 David D. Montague

David D. Montague

Title Geologist Date 3/7/97

Subscribed and sworn to before me this 7th day of March 19 97.

Notary Public Sarah A. Simon

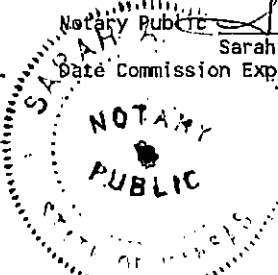
Sarah A. Simon

Date Commission Expires 12/11/97 KANSAS CORPORATION COMMISSION

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

MAR 07 1997

Form ACO-1 (7-91)



SIDE TWO

Operator Name Knighton Oil Company, Inc. Lease Name Toland A-1 Well # _____

Sec. 17 Twp. 25S Rge. 14 East West
 County Stafford

ORIGINAL

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy.) List All E.Logs Run: <u>None</u> Five Drill Stem Test attached.	<input type="checkbox"/> Log Formation (Top), Depth and Datums <input checked="" type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Heebner</td> <td>3555</td> <td>-1571</td> </tr> <tr> <td>Lansing</td> <td>3722</td> <td>-1738</td> </tr> <tr> <td>BKC</td> <td>3994</td> <td>-2010</td> </tr> <tr> <td>Mississippian</td> <td>4112</td> <td>-2128</td> </tr> <tr> <td>Viola</td> <td>4197</td> <td>-2213</td> </tr> </tbody> </table>	Name	Top	Datum	Heebner	3555	-1571	Lansing	3722	-1738	BKC	3994	-2010	Mississippian	4112	-2128	Viola	4197	-2213
Name	Top	Datum																	
Heebner	3555	-1571																	
Lansing	3722	-1738																	
BKC	3994	-2010																	
Mississippian	4112	-2128																	
Viola	4197	-2213																	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20#	267	60/40 Poz	185	3% CC 2% gel

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
		RECEIVED KANSAS CORPORATION COMMISSION MAR 07 1997

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No	CONSERVATION DIVISION WICHITA, KS
Date of First, Resumed Production, SWD or Inj. <u>D&A</u>			Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil <u>N/A</u> Bbls.	Gas <u>N/A</u> Mcf	Water <u>N/A</u> Bbls.	Gas-Oil Ratio	Gravity	

Disposition of Gas: **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
 (If vented, submit ACO-18.) Other (Specify) _____

ORIGINAL

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

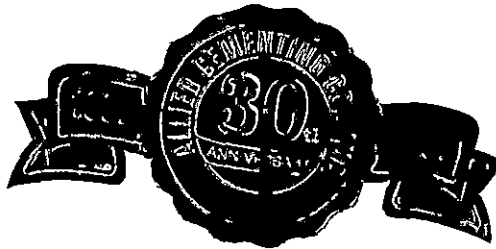
TO: Knighton Oil Co., Inc.
221 S. Broadway, #710
Wichita, KS 67202

INVOICE NO. 74498
PURCHASE ORDER NO. _____
LEASE NAME Toland A-1
DATE 2-20-97

SERVICE AND MATERIALS AS FOLLOWS:

Common 75 sks @\$6.10	\$457.50	
Pozmix 50 saks @\$3.15	157.50	
Gel 6 sks @\$9.50	<u>57.00</u>	\$ 672.00
Handling 125 sks @\$1.05	131.25	
Mileage (23) @\$.04¢ per sk per mi	115.00	
Rotary Plug	445.00	
Mi @\$2.85 pmp trk chg	65.55	
1 plug	<u>23.00</u>	<u>779.80</u>
	Total	\$1,451.80

If Account CURRENT a
Discount of \$ 217.77
will be Allowed ONLY if
Paid Within 30 Days from
Date of Invoice.



Thank You!

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

RECEIVED
KANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

ALLIED CEMENTING CO., INC.

1070

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

SERVICE POINT:

M.B.

DATE <u>2-20-97</u>	SEC <u>17</u>	TWP <u>25</u>	RANGE <u>14</u>	CALLED OUT <u>7 AM</u>	ON LOCATION <u>8 AM</u>	JOB START <u>10 AM</u>	JOB FINISH <u>1 PM</u>
LEASE <u>Toland</u>	WELL# <u>A-1</u>	LOCATION <u>Dillwyn + 50 Hwy 65 w/s</u>			COUNTY <u>Stefford</u>	STATE <u>K.S.</u>	

OLD OR NEW (Circle one)

CONTRACTOR Duke Drilling Rig #4

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 4250 ft

CASING SIZE 8 7/8 DEPTH 267 ft

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 911 ft

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

OWNER Same

CEMENT

AMOUNT ORDERED 125 ⁶⁰/₁₀₀ 66 gal

COMMON	<u>75</u>	@	<u>6.10</u>	<u>457.50</u>
POZMIX	<u>50</u>	@	<u>3.15</u>	<u>157.50</u>
GEL	<u>6</u>	@	<u>9.50</u>	<u>57.00</u>
CHLORIDE		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>125</u>	@	<u>1.05</u>	<u>131.25</u>
MILEAGE	<u>23</u>			<u>115.00</u>

TOTAL \$ 918.25

EQUIPMENT

PUMP TRUCK CEMENTER Mike M

120 HELPER Duane S.

BULK TRUCK

311 DRIVER Kevin R.

BULK TRUCK

_____ DRIVER _____

REMARKS:

Mix 50 sh at 911 ft

Mix 50 sh at 300 ft

Mix 10 sh at 40 ft with plug

Mix 15 sh in Rat Hole

SERVICE

DEPTH OF JOB	<u>911 ft</u>		
PUMP TRUCK CHARGE			<u>445.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>23</u>	@	<u>2.85</u> <u>65.55</u>
PLUG	<u>1-8 7/8 old hole plug</u>	@	<u>23.00</u> <u>23.00</u>
		@	
		@	

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TOTAL \$ 533.55

CHARGE TO: Knighton oil Co. Inc

STREET 221 S. Broadway Suite 710

CITY Wichita STATE K.S. ZIP 67202

MAR 07 1997

CONSERVATION DIVISION
WICHITA, KS

Thank you
Allied Cementing Co Inc
Mike + Duane + Kevin

TAX - 0 -

TOTAL CHARGE \$ 1451.80

DISCOUNT \$ 217.77 IF PAID IN 30 DAYS

Net \$ 1234.03

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 R. Wheeler

TELEPHONE:
AREA CODE 913 483-2627
AREA CODE 913 483-3887

ALLIED CEMENTING COMPANY, INC.

ORIGINAL

P. O. BOX 31
RUSSELL, KANSAS 67665

Federal Tax I.D.# 48-0727860

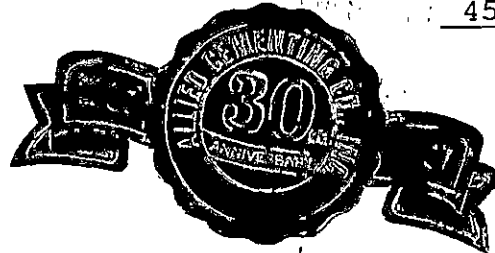
TO: Knighton Oil Co., Inc.
221 S. Broadway #710
Wichita, KS 67202

INVOICE NO. 74436
PURCHASE ORDER NO. _____
LEASE NAME Toland #1
DATE 2-11-97

SERVICE AND MATERIALS AS FOLLOWS:

Common 111 sks @\$6.10	\$677.10	
Pozmix 74 sks @\$3.15	233.10	
GEL 3 sks @\$9.50	28.50	
Chloride 6 sks @\$28.00	<u>168.00</u>	\$1,106.70
Handling 185 sks @\$1.05	194.25	
Mileage (23) @\$.04¢ per sk per mi	170.20	
Surface	445.00	
Mi @\$2.85 pmp trk chg	65.55	
1 plug	<u>45.00</u>	<u>920.00</u>
	Total <u>209.000</u>	\$2,026.70

If Account CURRENT a
Discount of \$ 304.01
will be Allowed ONLY if
Paid Within 30 Days from
Date of Invoice.



Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter. 1,722.69

*Cement Surface
Pipe*

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CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

ALLIED CEMENTING CO., INC.

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

SERVICE POINT:

M.B.

Table with columns: DATE, SEC., TWP., RANGE, CALLED OUT, ON LOCATION, JOB START, JOB FINISH, LEASE, WELL#, LOCATION, COUNTY, STATE

OR (NEW) (Circle one)

CONTRACTOR Duke Drilling Rig # 4
TYPE OF JOB Surface pipe job
HOLE SIZE 12" T.D. 267 ft
CASING SIZE 4" DEPTH 267 ft
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 100" MINIMUM
MEAS. LINE 252' SHOE JOINT
CEMENT LEFT IN CSG. 15 ft
PERFS. Displacement 16" bbl

OWNER Same
CEMENT
AMOUNT ORDERED 185 bags 37cc 27 gal

EQUIPMENT

PUMP TRUCK CEMENTER Mike M.
120 HELPER Duane S.
BULK TRUCK
342 DRIVER J.D.
BULK TRUCK
DRIVER

Table with columns: COMMON, POZMIX, GEL, CHLORIDE, HANDLING, MILEAGE

TOTAL \$ 1471.15

REMARKS:

SERVICE

Circulate the Hds with Rig mud pump
Mix cement + Release the plug
Displace plug Down with water

Table with columns: DEPTH OF JOB, PUMP TRUCK CHARGE, EXTRA FOOTAGE, MILEAGE, PLUG

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TOTAL \$ 555.55

CHARGE TO: Knighton oil Co. Inc.
STREET 221 S. Broadway # 710
CITY Wichita STATE KS ZIP 67202

MAR 07 1997

FLOAT EQUIPMENT

CONSERVATION DIVISION WICHITA, KS

TOTAL

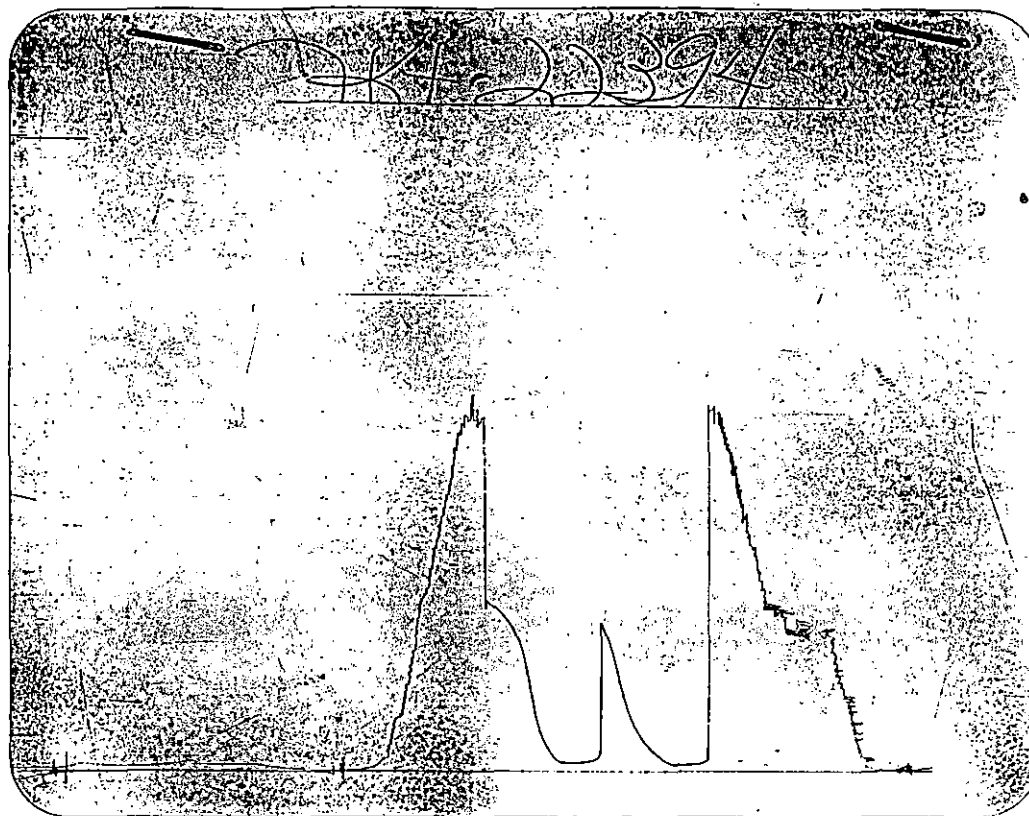
Thank you
Allied Cementing Co Inc
Mike + Duane + J.D.

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.

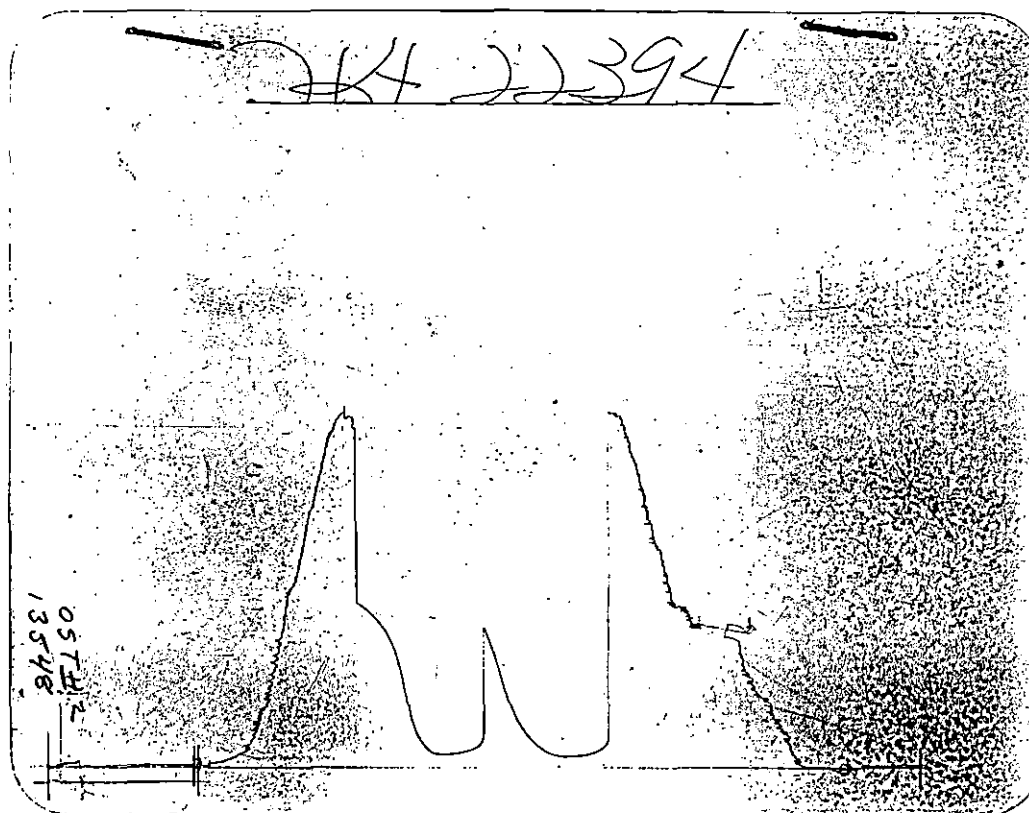
TAX - 0 -
TOTAL CHARGE \$ 2026.70
DISCOUNT \$ 304.01 IF PAID IN 30 DAYS

Net \$ 1722.69

SIGNATURE [Signature]



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

15-185-23043

DATE : 2/16/97	TICKET : 22393
CUSTOMER : KNIGHTON OIL COMPANY INC	LEASE : TOLAND A
WELL : #1 TEST: 1	GEOLOGIST: MONTAGUE
ELEVATION: 1984 KB	FORMATION: LANSING H
SECTION : 17	TOWNSHIP : 25S
RANGE : 14W COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3858.00 ft	TO: 3873.00 ft	TVD: 3873.0 ft
DEPTH OF SELECTIVE ZONE: 3864.0 ft	3867.0 ft	TEST TYPE: OIL
DEPTH OF RECORDERS: 3864.0 ft	3867.0 ft	
TEMPERATURE: 108.0		
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 : 3838.0 ft	I.D.: 3.800 in	
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE : 5.500 in	
ANCHOR LENGTH : 15.0 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: 3853.0 ft	SIZE: 6.630 in	
PACKER DEPTH: 3858.0 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 4	VISCOSITY : 50.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 8.800 cc
WEIGHT : 9.500 ppg	SERIAL NUMBER:
CHLORIDES : 3000 ppm	REVERSED OUT?: NO
JARS-MAKE :	
DID WELL FLOW?: NO	

COMMENTS

Comment

WEAK 1 INCH BLOW THROUGHOUT BOTH FLOW PERIODS.

ORIGINAL

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	2.0	0.0	0.0	98.0	SLIGHTLY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0042 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	3.3663 STB/D
MUD VOLUME:	0.2062 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.2104 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1848.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	20.00	20.00
INITIAL SHUT-IN	60.00		31.00
FINAL FLOW	60.00	20.00	20.00
FINAL SHUT-IN	90.00		31.00

FINAL HYDROSTATIC PRESSURE: 1848.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1898.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	18.95	18.58
INITIAL SHUT-IN	60.00		32.96
FINAL FLOW	60.00	22.71	21.10
FINAL SHUT-IN	90.00		39.65

FINAL HYDROSTATIC PRESSURE: 1848.00

Company: KNIGHTON OIL COMPANY, INC

Well: #1 TOLAND A

Field: TKT 22393 DST 1

[Sunday: Feb. 16, 1997]

Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	2:56:32	0.0000	18.95
6	0	2:57: 8	0.0100	18.98
11	0	2:57:44	0.0200	19.01
16	0	2:58:20	0.0300	19.03
21	0	2:58:56	0.0400	19.06
26	0	2:59:32	0.0500	19.09
31	0	3: 0: 8	0.0599	19.11
36	0	3: 0:44	0.0699	19.14
41	0	3: 1:20	0.0799	19.17
46	0	3: 1:56	0.0899	19.20
51	0	3: 2:32	0.0999	19.22
56	0	3: 3: 8	0.1099	19.25
61	0	3: 3:44	0.1199	19.28
66	0	3: 4:20	0.1299	19.31
71	0	3: 4:56	0.1399	19.33
76	0	3: 5:32	0.1499	19.36
81	0	3: 6: 8	0.1599	19.39
86	0	3: 6:44	0.1699	19.42
91	0	3: 7:20	0.1798	19.44
96	0	3: 7:56	0.1898	19.47
101	0	3: 8:32	0.1998	18.63
106	0	3: 9: 8	0.2098	18.66
111	0	3: 9:44	0.2198	18.68
116	0	3:10:20	0.2298	18.71
121	0	3:10:56	0.2398	18.74
126	0	3:11:32	0.2498	18.77
131	0	3:12: 8	0.2598	18.79
136	0	3:12:43	0.2698	18.82
141	0	3:13:19	0.2798	18.85
146	0	3:13:55	0.2898	18.88
151	0	3:14:31	0.2998	18.90
156	0	3:15: 7	0.3097	18.93
161	0	3:15:43	0.3197	18.96
166	0	3:16:19	0.3297	18.99
171	0	3:16:55	0.3397	19.01
176	0	3:17:31	0.3497	19.04
181	0	3:18: 7	0.3597	19.07
186	0	3:18:43	0.3697	18.23
191	0	3:19:19	0.3797	18.25
196	0	3:19:55	0.3897	18.28
201	0	3:20:31	0.3997	18.31
206	0	3:21: 7	0.4097	18.34
211	0	3:21:43	0.4197	18.36
216	0	3:22:19	0.4297	18.39
221	0	3:22:55	0.4396	18.42
226	0	3:23:31	0.4496	18.45
231	0	3:24: 7	0.4596	18.47
236	0	3:24:43	0.4696	18.50
241	0	3:25:19	0.4796	18.53
246	0	3:25:55	0.4896	18.56
251	0	3:26:31	0.4996	18.58
END FLOW 1				
START SHUTIN 1				
256	0	3:27: 7	0.5096	18.61

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC
Well: #1 TOLAND A
Field: TKT 22393 DST 1

[Sunday: Feb. 16, 1997]
Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
261	0	3:27:43	0.5196	18.64
266	0	3:28:19	0.5296	18.66
271	0	3:28:55	0.5396	18.69
276	0	3:29:31	0.5495	18.72
281	0	3:30: 7	0.5595	18.75
286	0	3:30:43	0.5695	18.77
291	0	3:31:19	0.5795	18.80
296	0	3:31:55	0.5895	18.83
301	0	3:32:31	0.5995	18.86
306	0	3:33: 6	0.6095	18.88
311	0	3:33:42	0.6195	18.91
316	0	3:34:18	0.6295	19.81
321	0	3:34:54	0.6395	19.83
326	0	3:35:30	0.6495	19.86
331	0	3:36: 6	0.6594	19.89
336	0	3:36:42	0.6694	20.78
341	0	3:37:18	0.6794	20.81
346	0	3:37:54	0.6894	20.84
351	0	3:38:30	0.6994	20.86
356	0	3:39: 6	0.7094	20.89
361	0	3:39:42	0.7194	20.92
366	0	3:40:18	0.7294	20.95
371	0	3:40:54	0.7394	20.97
376	0	3:41:30	0.7494	21.00
381	0	3:42: 6	0.7594	21.03
386	0	3:42:42	0.7693	21.06
391	0	3:43:18	0.7793	21.08
396	0	3:43:54	0.7893	21.11
401	0	3:44:30	0.7993	21.14
406	0	3:45: 6	0.8093	21.16
411	0	3:45:42	0.8193	21.19
416	0	3:46:18	0.8293	21.22
421	0	3:46:54	0.8393	21.25
426	0	3:47:30	0.8493	21.27
431	0	3:48: 6	0.8593	21.30
436	0	3:48:42	0.8692	21.33
441	0	3:49:18	0.8792	21.36
446	0	3:49:54	0.8892	21.38
451	0	3:50:29	0.8992	21.41
456	0	3:51: 5	0.9092	21.44
461	0	3:51:41	0.9192	21.47
466	0	3:52:17	0.9292	21.49
471	0	3:52:53	0.9392	21.52
476	0	3:53:29	0.9492	21.55
481	0	3:54: 5	0.9592	21.57
486	0	3:54:41	0.9692	21.60
491	0	3:55:17	0.9792	21.63
496	0	3:55:53	0.9892	21.66
501	0	3:56:29	0.9991	21.68
503	0	4: 1:38	1.0850	27.99
508	0	4: 2:14	1.0950	28.02
513	0	4: 2:50	1.1050	28.04
518	0	4: 3:26	1.1149	28.94
523	0	4: 4: 2	1.1249	28.97
528	0	4: 4:38	1.1349	28.99

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC

Well: #1 TOLAND A

Field: TKT 22393 DST 1

[Sunday: Feb. 16, 1997]

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
533	0	4: 5:14	1.1449	29.02
538	0	4: 5:50	1.1549	29.05
543	0	4: 6:26	1.1649	29.94
548	0	4: 7: 2	1.1749	30.84
553	0	4: 7:38	1.1849	30.87
558	0	4: 8:14	1.1948	30.89
563	0	4: 8:50	1.2048	30.92
568	0	4: 9:26	1.2148	30.95
573	0	4:10: 2	1.2248	30.97
578	0	4:10:38	1.2348	31.87
583	0	4:11:14	1.2448	31.90
588	0	4:11:50	1.2548	31.92
593	0	4:12:25	1.2648	31.95
598	0	4:13: 1	1.2748	32.85
603	0	4:13:37	1.2847	32.87
608	0	4:14:13	1.2947	32.90
613	0	4:14:49	1.3047	32.93
618	0	4:15:25	1.3147	32.96
		END SHUTIN 1		
		START FLOW 2		
622	0	4:18:54	1.3728	22.71
627	0	4:19:30	1.3828	22.73
632	0	4:20: 6	1.3928	22.76
637	0	4:20:42	1.4028	22.79
642	0	4:21:18	1.4128	22.82
647	0	4:21:54	1.4228	22.84
652	0	4:22:30	1.4328	22.87
657	0	4:23: 6	1.4428	22.90
662	0	4:23:42	1.4528	22.06
667	0	4:24:18	1.4628	22.08
672	0	4:24:54	1.4727	22.11
677	0	4:25:30	1.4827	22.14
682	0	4:26: 6	1.4928	21.30
687	0	4:26:42	1.5027	21.33
692	0	4:27:18	1.5127	21.35
697	0	4:27:54	1.5227	21.38
702	0	4:28:30	1.5327	20.54
707	0	4:29: 6	1.5427	20.57
712	0	4:29:42	1.5527	20.60
717	0	4:30:18	1.5627	20.62
722	0	4:30:54	1.5727	20.65
727	0	4:31:30	1.5827	20.68
732	0	4:32: 6	1.5927	20.71
737	0	4:32:42	1.6027	20.73
742	0	4:33:18	1.6127	20.76
747	0	4:33:54	1.6227	20.79
752	0	4:34:30	1.6326	20.81
757	0	4:35: 6	1.6426	20.84
762	0	4:35:42	1.6526	20.87
767	0	4:36:18	1.6626	20.90
772	0	4:36:54	1.6726	20.92
777	0	4:37:30	1.6826	20.95
782	0	4:38: 6	1.6926	20.98
787	0	4:38:42	1.7026	21.01
792	0	4:39:18	1.7126	21.03

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY, INC

Well: #1 TOLAND A

Field: TKT 22393 DST 1

[Sunday: Feb. 16, 1997]

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
797	0	4:39:53	1.7226	21.06
802	0	4:40:29	1.7326	21.09
807	0	4:41: 5	1.7426	21.12
812	0	4:41:41	1.7525	21.14
817	0	4:42:17	1.7625	21.17
822	0	4:42:53	1.7725	21.20
827	0	4:43:29	1.7825	21.22
832	0	4:44: 5	1.7925	20.38
837	0	4:44:41	1.8025	20.41
842	0	4:45:17	1.8125	20.44
847	0	4:45:53	1.8225	20.47
852	0	4:46:29	1.8325	20.49
857	0	4:47: 5	1.8425	20.52
862	0	4:47:41	1.8525	20.55
867	0	4:48:17	1.8625	20.58
872	0	4:48:53	1.8724	20.60
877	0	4:49:29	1.8824	20.63
882	0	4:50: 5	1.8924	20.66
887	0	4:50:41	1.9024	20.69
892	0	4:51:17	1.9124	20.71
897	0	4:51:53	1.9224	20.74
902	0	4:52:29	1.9324	20.77
907	0	4:53: 5	1.9424	20.79
912	0	4:53:41	1.9524	19.95
917	0	4:54:17	1.9624	19.98
922	0	4:54:53	1.9724	20.01
927	0	4:55:29	1.9824	20.04
932	0	4:56: 5	1.9924	20.06
937	0	4:56:41	2.0024	20.09
942	0	4:57:17	2.0123	20.12
947	0	4:57:53	2.0223	20.15
952	0	4:58:29	2.0323	20.17
957	0	4:59: 5	2.0423	20.20
962	0	4:59:41	2.0523	20.23
967	0	5: 0:17	2.0623	20.26
972	0	5: 0:53	2.0723	20.28
977	0	5: 1:28	2.0823	20.31
982	0	5: 2: 4	2.0923	20.34
987	0	5: 2:40	2.1023	20.36
992	0	5: 3:16	2.1123	20.39
997	0	5: 3:52	2.1223	20.42
1002	0	5: 4:28	2.1322	20.45
1007	0	5: 5: 4	2.1422	20.47
1012	0	5: 5:40	2.1522	20.50
1017	0	5: 6:16	2.1622	20.53
1022	0	5: 6:52	2.1722	20.56
1027	0	5: 7:28	2.1822	20.58
1032	0	5: 8: 4	2.1922	20.61
1037	0	5: 8:40	2.2022	20.64
1042	0	5: 9:16	2.2122	20.67
1047	0	5: 9:52	2.2222	20.69
1052	0	5:10:28	2.2322	20.72
1057	0	5:11: 4	2.2422	20.75
1062	0	5:11:40	2.2521	20.77
1067	0	5:12:16	2.2621	20.80

WESTERN TESTING CO., INC.

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1072	0	5:12:52	2.2721	20.83
1077	0	5:13:28	2.2821	20.86
1082	0	5:14: 4	2.2921	20.88
1087	0	5:14:40	2.3021	20.91
1092	0	5:15:16	2.3121	20.94
1097	0	5:15:52	2.3221	20.97
1102	0	5:16:28	2.3321	20.99
1107	0	5:17: 4	2.3421	21.02
1112	0	5:17:40	2.3521	21.05
1117	0	5:18:16	2.3620	21.08
1122	0	5:18:52	2.3720	21.10
END FLOW 2				
START SHUTIN 2				
1124	0	5:19: 6	2.3760	21.11
1127	0	5:19:28	2.3820	21.13
1132	0	5:20: 4	2.3920	21.16
1137	0	5:20:40	2.4020	21.18
1142	0	5:21:15	2.4120	21.21
1147	0	5:21:51	2.4220	21.24
1152	0	5:22:27	2.4320	21.27
1157	0	5:23: 3	2.4420	21.29
1162	0	5:23:39	2.4520	21.32
1167	0	5:24:15	2.4620	21.35
1172	0	5:24:51	2.4720	21.38
1177	0	5:25:27	2.4819	21.40
1182	0	5:26: 3	2.4919	21.43
1187	0	5:26:39	2.5019	21.46
1192	0	5:27:15	2.5119	21.49
1197	0	5:27:51	2.5219	21.51
1202	0	5:28:27	2.5319	21.54
1207	0	5:29: 3	2.5419	21.57
1212	0	5:29:39	2.5519	21.59
1217	0	5:30:15	2.5619	21.62
1222	0	5:30:51	2.5719	22.52
1227	0	5:31:27	2.5818	22.54
1232	0	5:32: 3	2.5918	22.57
1237	0	5:32:39	2.6018	22.60
1242	0	5:33:15	2.6118	22.63
1247	0	5:33:51	2.6218	22.65
1252	0	5:34:27	2.6318	22.68
1257	0	5:35: 3	2.6418	22.71
1262	0	5:35:39	2.6518	22.73
1267	0	5:36:15	2.6618	22.76
1272	0	5:36:51	2.6718	22.79
1277	0	5:37:27	2.6818	22.82
1282	0	5:38: 3	2.6918	22.84
1287	0	5:38:39	2.7017	22.87
1292	0	5:39:14	2.7117	22.90
1297	0	5:39:50	2.7217	22.93
1302	0	5:40:26	2.7317	22.95
1307	0	5:41: 2	2.7417	22.98
1312	0	5:41:38	2.7517	23.88
1317	0	5:42:14	2.7617	23.90
1322	0	5:42:50	2.7717	23.93
1327	0	5:43:26	2.7817	23.96

Company: KNIGHTON OIL COMPANY, INC
Well: #1 TOLAND A
Field: TKT 22393 DST 1

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1332	0	5:44: 2	2.7917	23.98
1337	0	5:44:38	2.8016	24.01
1342	0	5:45:14	2.8116	24.04
1347	0	5:45:50	2.8216	24.07
1352	0	5:46:26	2.8316	24.09
1357	0	5:47: 2	2.8416	24.12
1362	0	5:47:38	2.8516	24.15
1367	0	5:48:14	2.8616	24.18
1372	0	5:48:50	2.8716	24.20
1377	0	5:49:26	2.8816	24.23
1382	0	5:50: 2	2.8916	24.26
1387	0	5:50:38	2.9016	24.29
1392	0	5:51:14	2.9116	24.31
1397	0	5:51:50	2.9215	24.34
1402	0	5:52:26	2.9315	24.37
1407	0	5:53: 2	2.9415	24.39
1412	0	5:53:38	2.9515	24.42
1417	0	5:54:14	2.9615	24.45
1422	0	5:54:50	2.9715	24.48
1427	0	5:55:26	2.9815	24.50
1432	0	5:56: 2	2.9915	24.53
1437	0	5:56:38	3.0015	25.43
1442	0	5:57:13	3.0115	25.45
1447	0	5:57:49	3.0214	25.48
1452	0	5:58:25	3.0314	25.51
1457	0	5:59: 1	3.0414	26.40
1462	0	5:59:37	3.0514	26.43
1467	0	6: 0:13	3.0614	26.46
1472	0	6: 0:49	3.0714	26.48
1477	0	6: 1:25	3.0814	26.51
1482	0	6: 2: 1	3.0914	27.41
1487	0	6: 2:37	3.1014	27.43
1492	0	6: 3:13	3.1113	27.46
1497	0	6: 3:49	3.1213	27.49
1502	0	6: 4:25	3.1313	27.52
1507	0	6: 5: 1	3.1413	27.54
1512	0	6: 5:37	3.1513	27.57
1517	0	6: 6:13	3.1613	27.60
1522	0	6: 6:49	3.1713	27.63
1527	0	6: 7:25	3.1813	27.65
1532	0	6: 8: 1	3.1913	27.68
1537	0	6: 8:37	3.2013	27.71
1542	0	6: 9:13	3.2113	27.73
1547	0	6: 9:49	3.2213	27.76
1552	0	6:10:25	3.2312	27.79
1557	0	6:11: 1	3.2412	27.82
1562	0	6:11:37	3.2512	27.84
1567	0	6:12:13	3.2612	27.87
1572	0	6:12:49	3.2712	27.90
1577	0	6:13:25	3.2812	27.93
1582	0	6:14: 1	3.2912	27.95
1587	0	6:14:37	3.3012	27.98
1592	0	6:15:12	3.3112	28.01
1597	0	6:15:48	3.3212	28.04
1602	0	6:16:24	3.3312	28.06

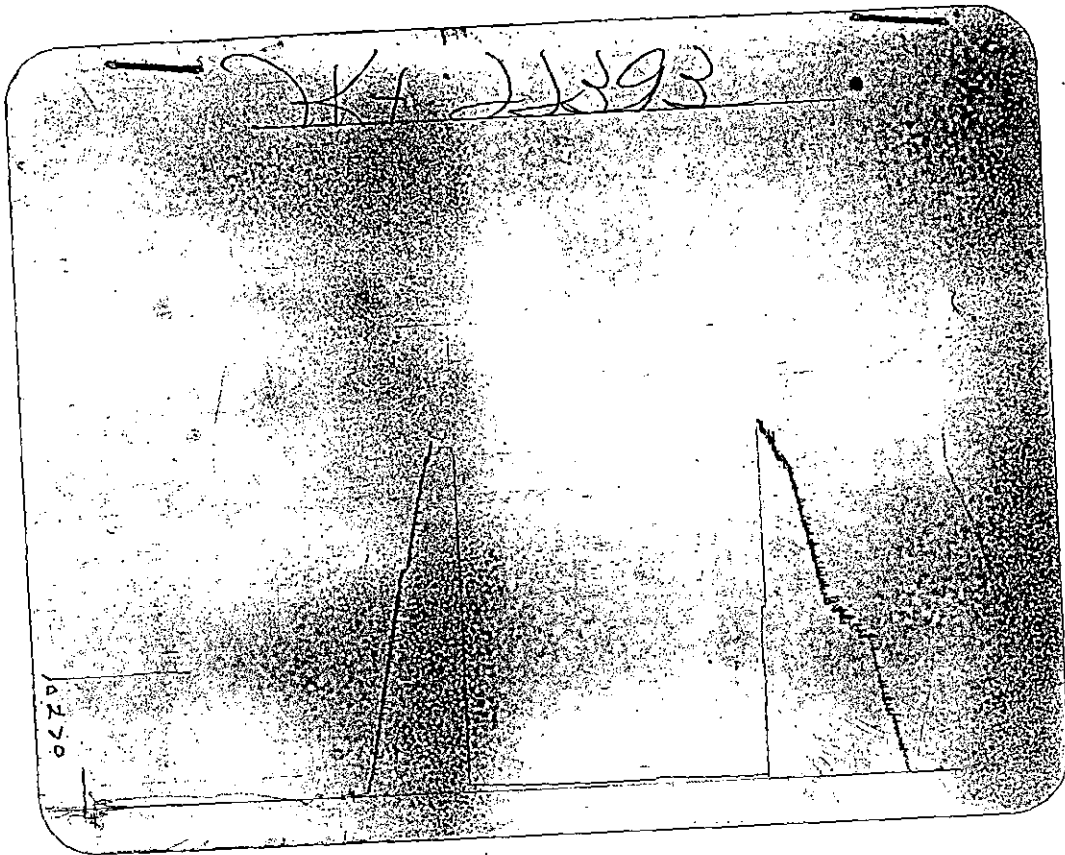
WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC
Well: #1 TOLAND A
Field: TKT 22393 DST 1

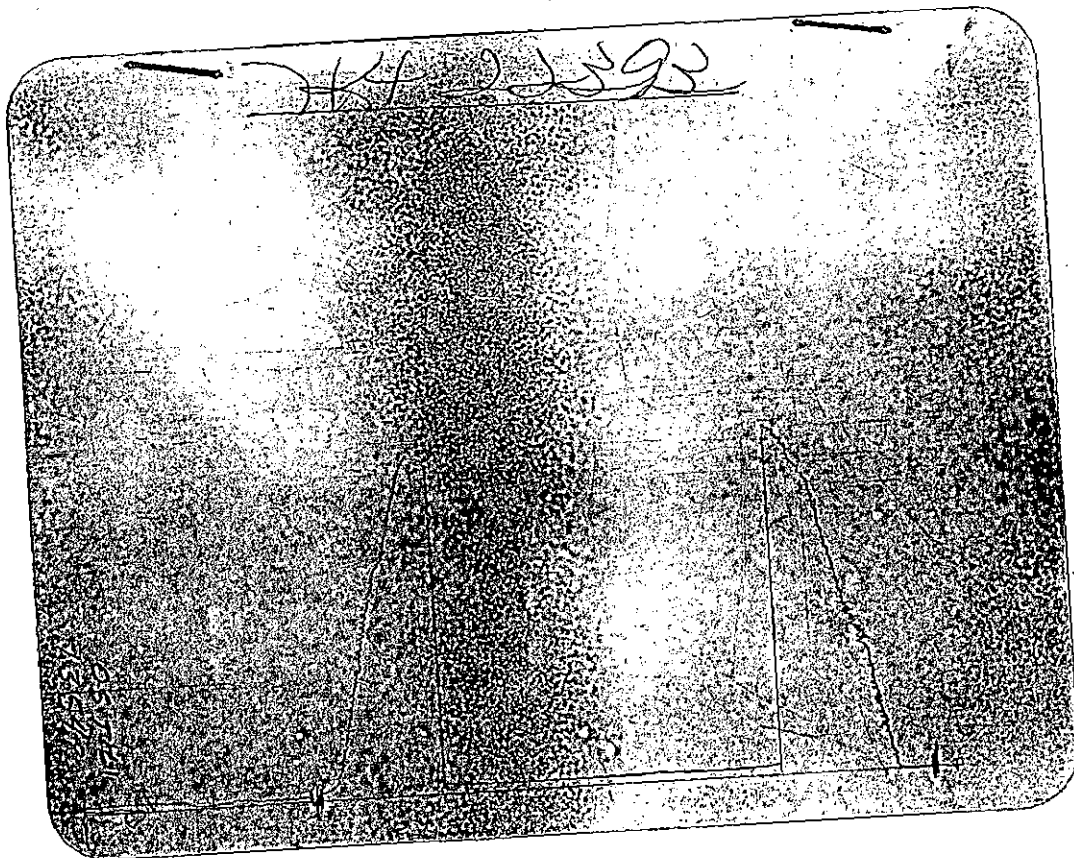
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1607	0	6:17:00	3.3411	28.09
1612	0	6:17:36	3.3511	28.12
1617	0	6:18:12	3.3611	28.14
1622	0	6:18:48	3.3711	28.17
1627	0	6:19:24	3.3811	28.20
1632	0	6:20:00	3.3911	28.23
1637	0	6:20:36	3.4011	28.25
1642	0	6:21:12	3.4111	28.28
1647	0	6:21:48	3.4211	28.31
1652	0	6:22:24	3.4311	28.34
1657	0	6:23:00	3.4411	28.36
1662	0	6:23:36	3.4511	28.39
1667	0	6:24:12	3.4610	28.42
1672	0	6:24:48	3.4710	28.45
1677	0	6:25:24	3.4810	28.47
1682	0	6:26:00	3.4910	28.50
1687	0	6:26:36	3.5010	28.53
1692	0	6:27:12	3.5110	28.55
1697	0	6:27:48	3.5209	34.65
1702	0	6:28:23	3.5309	34.68
1707	0	6:28:59	3.5409	34.71
1712	0	6:29:35	3.5509	35.60
1717	0	6:30:11	3.5609	35.63
1722	0	6:30:47	3.5708	35.66
1727	0	6:31:23	3.5808	35.68
1732	0	6:31:59	3.5908	35.71
1737	0	6:32:35	3.6008	35.74
1742	0	6:33:11	3.6108	36.63
1747	0	6:33:47	3.6208	36.66
1752	0	6:34:23	3.6308	36.69
1757	0	6:34:59	3.6408	36.72
1762	0	6:35:35	3.6507	37.61
1767	0	6:36:11	3.6607	37.64
1772	0	6:36:47	3.6707	37.67
1777	0	6:37:23	3.6807	38.56
1782	0	6:37:59	3.6907	38.59
1787	0	6:38:35	3.7007	38.61
1792	0	6:39:11	3.7107	38.64
1797	0	6:39:47	3.7207	38.67
1802	0	6:40:23	3.7307	38.70
1807	0	6:40:59	3.7407	38.72
1812	0	6:41:35	3.7506	39.62
1817	0	6:42:11	3.7606	39.65

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 2/17/97
CUSTOMER : KNIGHTON OIL COMPANY INC
WELL : #1 TEST: 2
ELEVATION: 1984 KB
SECTION : 17
RANGE : 14W COUNTY: STAFFORD
GAUGE SN#: 10270 RANGE : 4150
TICKET : 22394
LEASE : TOLAND A
GEOLOGIST: MONTAGUE
FORMATION: LANSING
TOWNSHIP : 25S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3937.00 ft TO: 3957.00 ft TVD: 3957.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3947.0 ft 3950.0 ft
TEMPERATURE: 110.0

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 :	3917.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	20.0 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:	3932.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3937.0 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 4
MUD TYPE : CHEMICAL
WEIGHT : 9.300 ppg
CHLORIDES : 7500 ppm
JARS-MAKE :
DID WELL FLOW?: NO
VISCOSITY : 50.00 cp
WATER LOSS: 9.200 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW
IN 4 MINUTES. FINAL FLOW PERIOD STRONG BLOW
THROUGHOUT.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	715 FT GAS ABOVE FLUID
5.0	10.0	20.0	0.0	70.0	OIL & GAS CUT MUD
60.0	24.0	6.0	0.0	70.0	HEAVY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.2090 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.3623 SCF	AVERAGE OIL RATE:	20.3326 STB/D
MUD VOLUME:	0.6382 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.8472 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1921.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	31.00
INITIAL SHUT-IN	60.00		800.00
FINAL FLOW	30.00	41.00	41.00
FINAL SHUT-IN	60.00		904.00

FINAL HYDROSTATIC PRESSURE: 1869.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1927.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	51.17	36.43
INITIAL SHUT-IN	60.00		792.74
FINAL FLOW	30.00	58.11	44.23
FINAL SHUT-IN	60.00		913.30

FINAL HYDROSTATIC PRESSURE: 1873.00

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	21:20: 7	0.0000	51.17
5	0	21:20:36	0.0080	51.17
10	0	21:21:12	0.0180	50.31
15	0	21:21:48	0.0280	47.70
20	0	21:22:24	0.0380	44.23
25	0	21:23: 0	0.0480	41.63
30	0	21:23:36	0.0580	39.90
35	0	21:24:12	0.0679	38.16
40	0	21:24:48	0.0779	36.43
45	0	21:25:24	0.0879	34.69
50	0	21:26: 0	0.0979	33.83
55	0	21:26:36	0.1079	32.96
60	0	21:27:12	0.1179	32.09
65	0	21:27:48	0.1279	32.09
70	0	21:28:24	0.1379	32.09
75	0	21:29: 0	0.1479	30.36
80	0	21:29:36	0.1579	30.36
85	0	21:30:12	0.1679	30.36
90	0	21:30:47	0.1778	30.36
95	0	21:31:23	0.1878	29.49
100	0	21:31:59	0.1978	29.49
105	0	21:32:35	0.2078	27.75
110	0	21:33:11	0.2178	27.75
115	0	21:33:47	0.2278	27.75
120	0	21:34:23	0.2378	27.75
125	0	21:34:59	0.2478	26.89
130	0	21:35:35	0.2578	26.89
135	0	21:36:11	0.2678	26.89
140	0	21:36:47	0.2778	26.89
145	0	21:37:23	0.2878	26.89
150	0	21:37:59	0.2977	26.89
155	0	21:38:35	0.3077	26.89
160	0	21:39:11	0.3177	26.89
165	0	21:39:47	0.3277	26.89
170	0	21:40:23	0.3377	26.89
175	0	21:40:59	0.3477	26.89
180	0	21:41:35	0.3577	26.89
185	0	21:42:11	0.3677	26.89
190	0	21:42:47	0.3777	26.89
195	0	21:43:23	0.3877	26.89
200	0	21:43:59	0.3977	26.89
205	0	21:44:35	0.4077	26.89
210	0	21:45:11	0.4176	26.89
215	0	21:45:47	0.4276	27.75
220	0	21:46:23	0.4376	27.75
225	0	21:46:59	0.4476	28.62
230	0	21:47:35	0.4576	29.49
235	0	21:48:11	0.4676	31.22
240	0	21:48:47	0.4776	32.96
245	0	21:49:23	0.4876	34.69
250	0	21:49:58	0.4976	36.43
END FLOW 1				
START SHUTIN 1				
255	0	21:50:34	0.5076	39.03

Company: KNIGHTON OIL COMPANY INC
Well: #1 TOLAND A
Field: TKT-22394 DST 2

[Monday: Feb. 17, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
799	0	22:59: 2	1.6506	40.76
804	0	22:59:38	1.6606	40.76
809	0	23: 0:14	1.6706	40.76
814	0	23: 0:50	1.6806	40.76
819	0	23: 1:26	1.6906	40.76
824	0	23: 2: 2	1.7006	40.76
829	0	23: 2:38	1.7106	40.76
834	0	23: 3:14	1.7206	40.76
839	0	23: 3:50	1.7306	40.76
844	0	23: 4:26	1.7406	40.76
849	0	23: 5: 2	1.7505	40.76
854	0	23: 5:38	1.7605	40.76
859	0	23: 6:14	1.7705	40.76
864	0	23: 6:50	1.7805	40.76
869	0	23: 7:26	1.7905	40.76
874	0	23: 8: 2	1.8005	40.76
879	0	23: 8:38	1.8105	40.76
884	0	23: 9:14	1.8205	40.76
889	0	23: 9:50	1.8305	40.76
894	0	23:10:26	1.8405	40.76
899	0	23:11: 2	1.8505	40.76
904	0	23:11:38	1.8605	41.63
909	0	23:12:14	1.8704	42.50
914	0	23:12:50	1.8804	44.23
		END FLOW 2		
		START SHUTIN 2		
919	0	23:13:26	1.8904	46.84
924	0	23:14: 2	1.9004	49.44
929	0	23:14:37	1.9104	52.04
934	0	23:15:13	1.9204	56.38
939	0	23:15:49	1.9304	60.71
944	0	23:16:25	1.9404	65.05
949	0	23:17: 1	1.9504	69.39
954	0	23:17:37	1.9604	73.72
959	0	23:18:13	1.9704	78.06
964	0	23:18:49	1.9804	83.26
969	0	23:19:25	1.9903	88.47
974	0	23:20: 1	2.0003	96.27
979	0	23:20:37	2.0103	104.08
984	0	23:21:13	2.0203	111.89
989	0	23:21:49	2.0303	119.69
994	0	23:22:25	2.0403	126.63
999	0	23:23: 1	2.0503	133.57
1004	0	23:23:37	2.0603	143.11
1009	0	23:24:13	2.0703	150.05
1014	0	23:24:49	2.0803	161.32
1019	0	23:25:25	2.0903	170.00
1024	0	23:26: 1	2.1003	180.41
1029	0	23:26:37	2.1102	191.68
1034	0	23:27:13	2.1202	203.82
1039	0	23:27:49	2.1302	215.10
1044	0	23:28:25	2.1402	230.71
1049	0	23:29: 1	2.1502	243.72
1054	0	23:29:37	2.1602	260.20

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC
 Well: #1 TOLAND A
 Field: TKT-22394 DST 2
 [Monday: Feb. 17, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1059	0	23:30:13	2.1682	274.94
1064	0	23:30:49	2.1782	293.16
1069	0	23:31:25	2.1882	312.24
1074	0	23:32: 1	2.1982	338.26
1079	0	23:32:37	2.2082	359.94
1084	0	23:33:13	2.2181	381.63
1089	0	23:33:49	2.2281	403.31
1094	0	23:34:24	2.2381	425.86
1099	0	23:35: 0	2.2481	447.54
1104	0	23:35:36	2.2581	473.56
1109	0	23:36:12	2.2681	497.85
1114	0	23:36:48	2.2781	521.27
1119	0	23:37:24	2.2881	542.08
1124	0	23:38: 0	2.2981	562.03
1129	0	23:38:36	2.3081	579.38
1134	0	23:39:12	2.3181	600.19
1139	0	23:39:48	2.3281	617.54
1144	0	23:40:24	2.3380	635.75
1149	0	23:41: 0	2.3480	648.76
1154	0	23:41:36	2.3580	664.38
1159	0	23:42:12	2.3680	674.78
1164	0	23:42:48	2.3780	688.66
1169	0	23:43:24	2.3880	698.20
1174	0	23:44: 0	2.3980	709.48
1179	0	23:44:36	2.4080	719.89
1184	0	23:45:12	2.4180	730.29
1189	0	23:45:48	2.4280	739.83
1194	0	23:46:24	2.4380	748.51
1199	0	23:47: 0	2.4480	758.05
1204	0	23:47:36	2.4579	766.72
1209	0	23:48:12	2.4679	773.66
1214	0	23:48:48	2.4779	779.73
1219	0	23:49:24	2.4879	785.80
1224	0	23:50: 0	2.4979	792.74
1229	0	23:50:36	2.5079	798.81
1234	0	23:51:12	2.5179	804.02
1239	0	23:51:48	2.5279	810.09
1244	0	23:52:24	2.5379	814.43
1249	0	23:53: 0	2.5479	819.63
1254	0	23:53:36	2.5579	824.83
1259	0	23:54:11	2.5679	830.04
1264	0	23:54:47	2.5778	835.24
1269	0	23:55:23	2.5878	839.58
1274	0	23:55:59	2.5978	843.91
1279	0	23:56:35	2.6078	848.25
1284	0	23:57:11	2.6178	852.59
1289	0	23:57:47	2.6278	856.92
1294	0	23:58:23	2.6378	861.26
1299	0	23:58:59	2.6478	865.60
1304	0	23:59:35	2.6578	869.07
[Tuesday: Feb. 18, 1997]				
1309	1	0: 0:11	2.6678	873.40
1314	1	0: 0:47	2.6778	877.74
1319	1	0: 1:23	2.6878	880.34
1324	1	0: 1:59	2.6977	883.81

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC

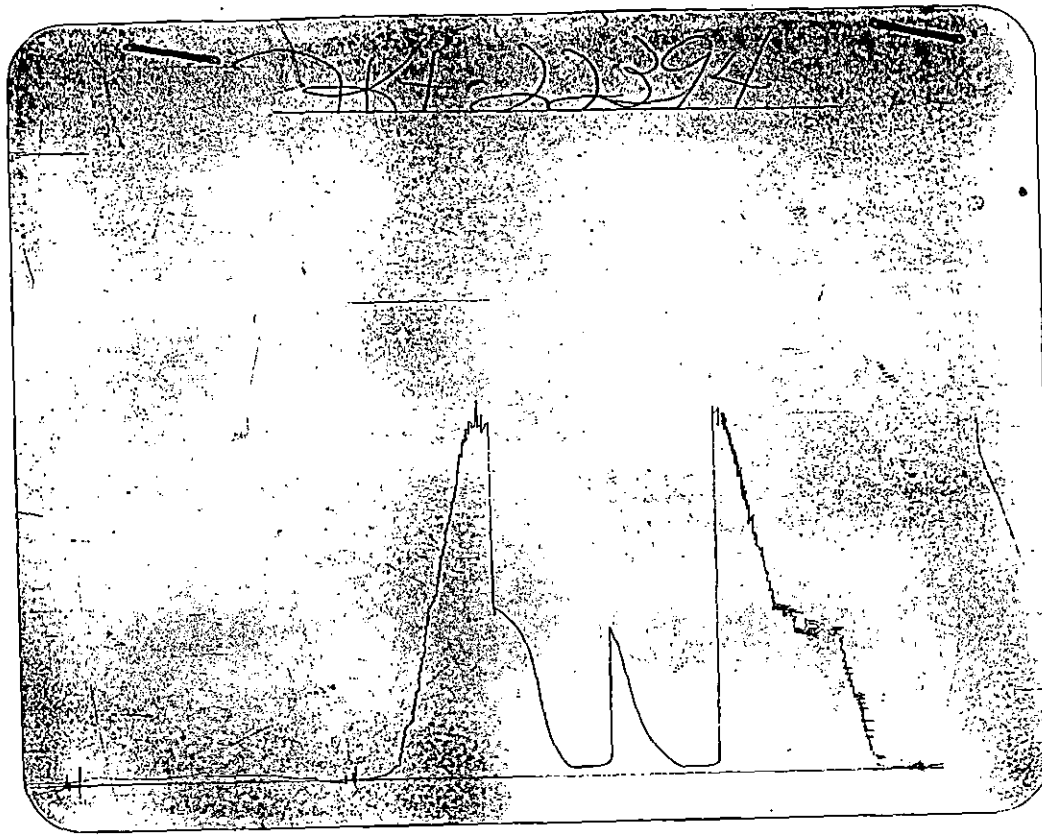
Well: #1 TOLAND A

Field: TKT 22394 DST 2

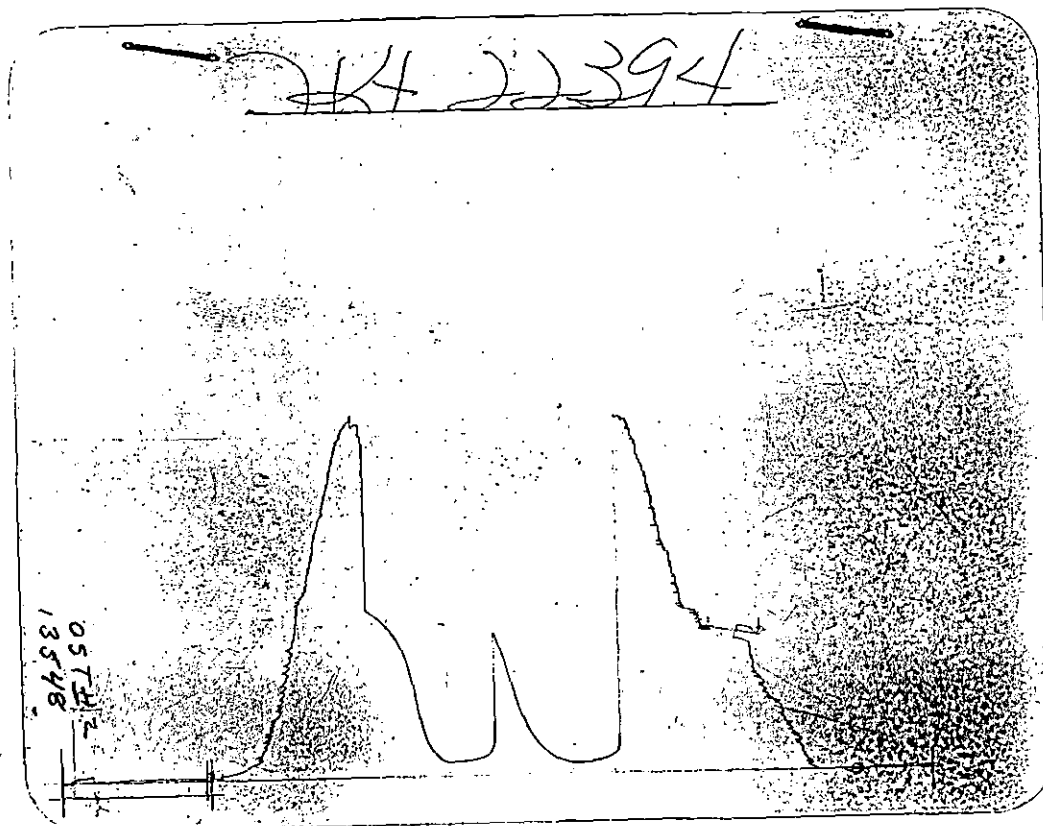
[Tuesday: Feb. 18, 1997]
Page 6

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1329	1	0: 2:35	2.7077	887.28
1334	1	0: 3:11	2.7177	890.75
1339	1	0: 3:47	2.7277	893.35
1344	1	0: 4:23	2.7377	897.69
1349	1	0: 4:59	2.7477	900.29
1354	1	0: 5:35	2.7577	903.76
1359	1	0: 6:11	2.7677	906.36
1364	1	0: 6:47	2.7777	908.96
1369	1	0: 7:23	2.7877	911.57
1374	1	0: 7:59	2.7977	913.30
1379	1	0: 8:35	2.8077	913.30

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

WELL STORE REPORT T20

GENERAL INFORMATION

DATE : 2/18/97	TICKET : 22395
CUSTOMER : KNIGHTON OIL COMPANY INC	LEASE : TOLAND A
WELL : #1 TEST: 3	GEOLOGIST: MONTAGUE
ELEVATION: 1984 KB	FORMATION: MISSISSIPPI
SECTION : 17	TOWNSHIP : 25S
RANGE : 14W COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4118.00 ft TO: 4140.00 ft TVD: 4140.0 ft
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
 DEPTH OF RECORDERS: 4132.0 ft 4135.0 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 : 4098.0 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: 4113.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4118.0 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 4	VISCOSITY : 46.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 10.800 cc
WEIGHT : 9.300 ppg	SERIAL NUMBER:
CHLORIDES : 8000 ppm	REVERSED OUT?: NO
JARS-MAKE :	
DID WELL FLOW?: NO	

COMMENTS

Comment

MISRUN.
 PACKER FAILURE

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
360.0	0.0	0.0	0.0	100.0	MUD

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: 5.0495 STB	AVERAGE WATER RATE: 0.0000 STB/D
WATER VOLUME: 0.0000 STB	
TOTAL FLUID : 5.0495 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

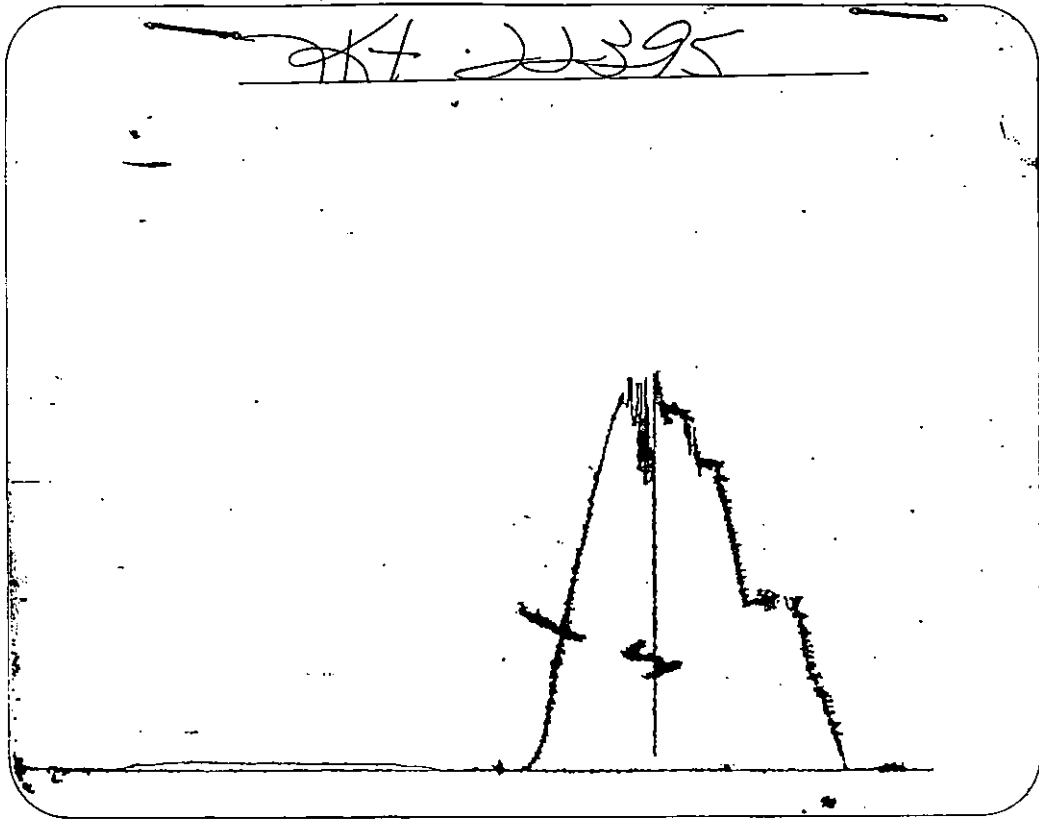
FINAL HYDROSTATIC PRESSURE: 0.00

OFFICE TIME & PRESSURE INFORMATION

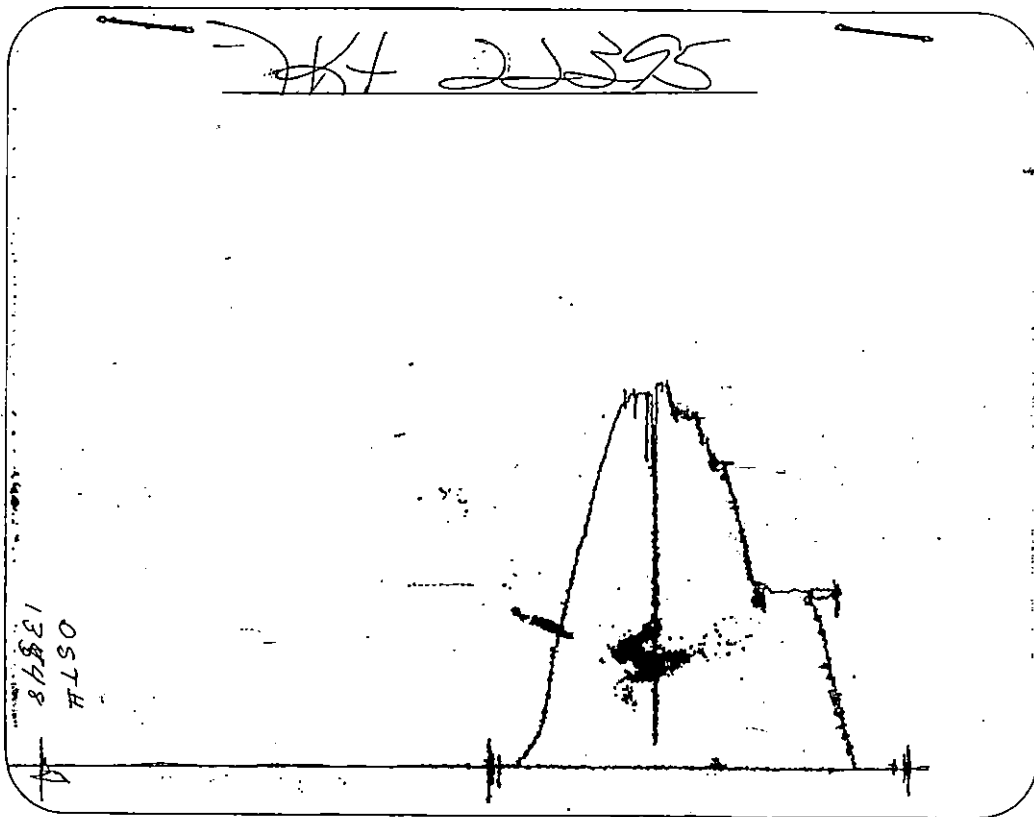
INITIAL HYDROSTATIC PRESSURE: 1968.00

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

FINAL HYDROSTATIC PRESSURE: 1948.00



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 2/19/97	TICKET	: 22396
CUSTOMER	: KNIGHTON OIL COMPANY INC	LEASE	: TOLAND A
WELL	: #1	TEST: 4	GEOLOGIST: MONTAGUE
ELEVATION	: 1984 KB	FORMATION	: MISSISSIPPI
SECTION	: 17	TOWNSHIP	: 25S
RANGE	: 14W	COUNTY: STAFFORD	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4096.00 ft	TO:	4140.00 ft	TVD:	4140.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4099.0 ft	4102.0 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:	4076.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH:	20.0 ft	TOOL SIZE:	5.500 in		
ANCHOR LENGTH:	44.0 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:	4091.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	4096.0 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 4	VISCOSITY:	46.00 cp
MUD TYPE:	CHEMICAL	WATER LOSS:	10.800 cc
WEIGHT:	9.300 ppg	SERIAL NUMBER:	
CHLORIDES:	8000 ppm	REVERSED OUT?:	NO
JARS-MAKE:			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW
IN 8 MINUTES. FINAL FLOW PERIOD STRONG BLOW
THROUGHOUT.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	700 FT GAS ABOVE FLUID
15.0	1.0	3.0	0.0	96.0	SLIGHTLY OIL & GAS C/MUD

RATE INFORMATION

OIL VOLUME:	0.0021 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0354 SCF	AVERAGE OIL RATE:	3.2653 STB/D
MUD VOLUME:	0.2020 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.2041 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2097.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	20.00	20.00
INITIAL SHUT-IN	30.00		343.00
FINAL FLOW	60.00	20.00	20.00
FINAL SHUT-IN	60.00		1049.00

FINAL HYDROSTATIC PRESSURE: 2056.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2080.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	30.36	34.69
INITIAL SHUT-IN	30.00		339.99
FINAL FLOW	60.00	27.75	21.68
FINAL SHUT-IN	60.00		1052.94

FINAL HYDROSTATIC PRESSURE: 2036.00

Company: KNIGHTON OIL COMPANY INC
Well: TOLAND A #1
Field: TKT 22396 DST 4

[Wednesday: Feb. 19, 1997
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	1:45:00	0.0000	30.36
6	0	1:45:36	0.0100	30.36
11	0	1:46:12	0.0200	30.36
16	0	1:46:48	0.0300	28.62
21	0	1:47:24	0.0400	26.89
26	0	1:48:00	0.0500	24.29
31	0	1:48:36	0.0600	24.29
36	0	1:49:12	0.0699	23.42
41	0	1:49:48	0.0799	23.42
46	0	1:50:24	0.0899	21.68
51	0	1:51:00	0.0999	20.82
56	0	1:51:36	0.1099	20.82
61	0	1:52:12	0.1199	20.82
66	0	1:52:48	0.1299	20.82
71	0	1:53:24	0.1399	20.82
76	0	1:54:00	0.1499	20.82
81	0	1:54:36	0.1599	20.82
86	0	1:55:11	0.1699	20.82
91	0	1:55:47	0.1798	20.82
96	0	1:56:23	0.1898	20.82
101	0	1:56:59	0.1998	20.82
106	0	1:57:35	0.2098	20.82
111	0	1:58:11	0.2198	20.82
116	0	1:58:47	0.2298	19.95
121	0	1:59:23	0.2398	19.95
126	0	1:59:59	0.2498	19.95
131	0	2:00:35	0.2598	19.95
136	0	2:01:11	0.2698	19.95
141	0	2:01:47	0.2798	19.95
146	0	2:02:23	0.2898	19.95
151	0	2:02:59	0.2998	19.95
156	0	2:03:35	0.3097	19.95
161	0	2:04:11	0.3197	19.95
166	0	2:04:47	0.3297	19.95
171	0	2:05:23	0.3397	19.95
176	0	2:05:59	0.3497	19.95
181	0	2:06:35	0.3597	19.95
186	0	2:07:11	0.3697	20.82
191	0	2:07:47	0.3797	20.82
196	0	2:08:23	0.3897	22.55
201	0	2:08:59	0.3997	25.15
206	0	2:09:35	0.4097	29.49
211	0	2:10:11	0.4196	34.69
END FLOW 1				
START SHUTIN 1				
216	0	2:10:47	0.4296	40.76
221	0	2:11:23	0.4396	46.84
226	0	2:11:59	0.4496	53.77
231	0	2:12:35	0.4596	60.71
236	0	2:13:11	0.4696	70.25
241	0	2:13:47	0.4796	80.66
246	0	2:14:23	0.4896	90.20
251	0	2:14:58	0.4996	98.88
256	0	2:15:34	0.5096	108.42

Company: KNIGHTON OIL COMPANY INC
Well: TOLAND A #1
Field: TKT 22396 DST 4

[Wednesday: Feb. 19, 1997
Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
261	0	2:16:10	0.5196	114.49
266	0	2:16:46	0.5296	120.56
271	0	2:17:22	0.5396	130.10
276	0	2:17:58	0.5495	137.04
281	0	2:18:34	0.5595	143.98
286	0	2:19:10	0.5695	150.92
291	0	2:19:46	0.5795	157.85
296	0	2:20:22	0.5895	168.26
301	0	2:20:58	0.5995	176.94
306	0	2:21:34	0.6095	185.61
311	0	2:22:10	0.6195	195.15
316	0	2:22:46	0.6295	202.96
321	0	2:23:22	0.6395	214.23
326	0	2:23:58	0.6495	222.90
331	0	2:24:34	0.6594	230.71
336	0	2:25:10	0.6694	239.38
341	0	2:25:46	0.6794	247.19
346	0	2:26:22	0.6894	255.00
351	0	2:26:58	0.6994	261.93
356	0	2:27:34	0.7094	268.01
361	0	2:28:10	0.7194	275.81
366	0	2:28:46	0.7294	282.75
371	0	2:29:22	0.7394	291.42
376	0	2:29:58	0.7494	297.50
381	0	2:30:34	0.7594	303.57
386	0	2:31:10	0.7694	308.77
391	0	2:31:46	0.7793	313.11
396	0	2:32:22	0.7893	318.31
401	0	2:32:58	0.7993	322.65
406	0	2:33:34	0.8093	326.98
411	0	2:34:10	0.8193	331.32
416	0	2:34:46	0.8293	335.66
421	0	2:35:21	0.8393	339.99
426	0	2:35:57	0.8493	339.99
		END SHUTIN 1		
		START FLOW 2		
431	0	2:39:48	0.9132	27.75
436	0	2:40:24	0.9232	27.75
441	0	2:41:00	0.9332	27.75
446	0	2:41:36	0.9432	26.89
451	0	2:42:12	0.9532	26.02
456	0	2:42:48	0.9632	25.15
461	0	2:43:23	0.9732	23.42
466	0	2:43:59	0.9832	23.42
471	0	2:44:35	0.9932	22.55
476	0	2:45:11	1.0032	22.55
481	0	2:45:47	1.0132	22.55
486	0	2:46:23	1.0231	21.68
491	0	2:46:59	1.0331	21.68
496	0	2:47:35	1.0431	21.68
501	0	2:48:11	1.0531	20.82
506	0	2:48:47	1.0631	20.82
511	0	2:49:23	1.0731	20.82
516	0	2:49:59	1.0831	20.82
521	0	2:50:35	1.0931	20.82

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC. [Wednesday: Feb. 19, 1997]
 Well: TOLAND A #1
 Field: TKT 22396 DST 4 Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
526	0	2:51:11	1.1031	20.82
531	0	2:51:47	1.1131	20.82
536	0	2:52:23	1.1231	20.82
541	0	2:52:59	1.1331	20.82
546	0	2:53:35	1.1430	20.82
551	0	2:54:11	1.1530	20.82
556	0	2:54:47	1.1630	20.82
561	0	2:55:23	1.1730	20.82
566	0	2:55:59	1.1830	20.82
571	0	2:56:35	1.1930	20.82
576	0	2:57:11	1.2030	20.82
581	0	2:57:47	1.2130	20.82
586	0	2:58:23	1.2230	20.82
591	0	2:58:59	1.2330	20.82
596	0	2:59:35	1.2430	20.82
601	0	3: 0:11	1.2530	20.82
606	0	3: 0:47	1.2629	20.82
611	0	3: 1:23	1.2729	20.82
616	0	3: 1:59	1.2829	20.82
621	0	3: 2:35	1.2929	20.82
626	0	3: 3:10	1.3029	20.82
631	0	3: 3:46	1.3129	20.82
636	0	3: 4:22	1.3229	20.82
641	0	3: 4:58	1.3329	20.82
646	0	3: 5:34	1.3429	20.82
651	0	3: 6:10	1.3529	20.82
656	0	3: 6:46	1.3629	20.82
661	0	3: 7:22	1.3729	20.82
666	0	3: 7:58	1.3829	20.82
671	0	3: 8:34	1.3928	20.82
676	0	3: 9:10	1.4028	20.82
681	0	3: 9:46	1.4128	20.82
686	0	3:10:22	1.4228	20.82
691	0	3:10:58	1.4328	20.82
696	0	3:11:34	1.4428	20.82
701	0	3:12:10	1.4528	20.82
706	0	3:12:46	1.4628	20.82
711	0	3:13:22	1.4728	20.82
716	0	3:13:58	1.4828	20.82
721	0	3:14:34	1.4928	20.82
726	0	3:15:10	1.5028	20.82
731	0	3:15:46	1.5127	20.82
736	0	3:16:22	1.5227	20.82
741	0	3:16:58	1.5327	20.82
746	0	3:17:34	1.5427	20.82
751	0	3:18:10	1.5527	20.82
756	0	3:18:46	1.5627	20.82
761	0	3:19:22	1.5727	20.82
766	0	3:19:58	1.5827	20.82
771	0	3:20:34	1.5927	20.82
776	0	3:21:10	1.6027	20.82
781	0	3:21:46	1.6127	20.82
786	0	3:22:22	1.6227	20.82
791	0	3:22:58	1.6326	20.82
796	0	3:23:33	1.6426	20.82

Company: KNIGHTON OIL COMPANY INC
Well: TOLAND A #1
Field: TKT 22396 DST 4

[Wednesday: Feb. 19, 1997
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
801	0	3:24: 9	1.6526	20.82
806	0	3:24:45	1.6626	20.82
811	0	3:25:21	1.6726	20.82
816	0	3:25:57	1.6826	20.82
821	0	3:26:33	1.6926	20.82
826	0	3:27: 9	1.7026	20.82
831	0	3:27:45	1.7126	20.82
836	0	3:28:21	1.7226	20.82
841	0	3:28:57	1.7326	20.82
846	0	3:29:33	1.7426	20.82
851	0	3:30: 9	1.7525	20.82
856	0	3:30:45	1.7625	20.82
861	0	3:31:21	1.7725	21.68
866	0	3:31:57	1.7825	21.68
871	0	3:32:33	1.7925	21.68
876	0	3:33: 9	1.8025	21.68
END FLOW 2				
START SHUTIN 2				
877	0	3:33:16	1.8045	23.42
881	0	3:33:45	1.8125	26.02
886	0	3:34:21	1.8225	34.69
891	0	3:34:57	1.8325	63.32
896	0	3:35:33	1.8425	78.93
901	0	3:36: 9	1.8525	94.54
906	0	3:36:45	1.8625	107.55
911	0	3:37:21	1.8724	117.96
916	0	3:37:57	1.8824	149.18
921	0	3:38:33	1.8924	157.85
926	0	3:39: 9	1.9024	173.47
931	0	3:39:45	1.9124	189.95
936	0	3:40:21	1.9224	205.56
941	0	3:40:57	1.9324	228.98
946	0	3:41:33	1.9424	240.25
951	0	3:42: 9	1.9524	255.00
956	0	3:42:44	1.9624	270.61
961	0	3:43:20	1.9724	281.88
966	0	3:43:56	1.9823	294.89
971	0	3:44:32	1.9923	310.51
976	0	3:45: 8	2.0023	330.45
981	0	3:45:44	2.0123	343.46
986	0	3:46:20	2.0223	362.55
991	0	3:46:56	2.0323	373.82
996	0	3:47:32	2.0423	382.49
1001	0	3:48: 8	2.0523	393.77
1006	0	3:48:44	2.0623	408.51
1011	0	3:49:20	2.0723	424.99
1016	0	3:49:56	2.0823	440.61
1021	0	3:50:32	2.0923	460.55
1026	0	3:51: 8	2.1023	469.23
1031	0	3:51:44	2.1122	480.50
1036	0	3:52:20	2.1222	489.18
1041	0	3:52:56	2.1322	500.45
1046	0	3:53:32	2.1422	512.59
1051	0	3:54: 8	2.1522	523.87
1056	0	3:54:44	2.1622	539.48

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC.

Well: TOLAND A #1

Field: TKT 22396 DST 4

DATE TIME

WEDNESDAY [Wednesday: Feb. 19, 1997

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1061	0	3:55:20	2.1722	551.62
1066	0	3:55:56	2.1822	562.03
1071	0	3:56:32	2.1922	575.91
1076	0	3:57: 8	2.2022	585.45
1081	0	3:57:44	2.2122	596.72
1086	0	3:58:20	2.2222	609.73
1091	0	3:58:56	2.2321	621.88
1096	0	3:59:32	2.2421	633.15
1101	0	4: 0: 8	2.2521	643.56
1106	0	4: 0:44	2.2621	652.23
1111	0	4: 1:20	2.2721	661.77
1116	0	4: 1:56	2.2821	672.18
1121	0	4: 2:32	2.2921	680.86
1126	0	4: 3: 7	2.3021	690.40
1131	0	4: 3:43	2.3121	701.67
1136	0	4: 4:19	2.3221	712.95
1141	0	4: 4:55	2.3321	724.22
1146	0	4: 5:31	2.3421	732.03
1151	0	4: 6: 7	2.3520	738.97
1156	0	4: 6:43	2.3620	745.91
1161	0	4: 7:19	2.3720	751.98
1166	0	4: 7:55	2.3820	764.99
1171	0	4: 8:31	2.3920	773.66
1176	0	4: 9: 7	2.4020	784.07
1181	0	4: 9:43	2.4120	795.34
1186	0	4:10:19	2.4220	803.15
1191	0	4:10:55	2.4320	812.69
1196	0	4:11:31	2.4420	821.36
1201	0	4:12: 7	2.4520	830.90
1206	0	4:12:43	2.4620	840.45
1211	0	4:13:19	2.4719	848.25
1216	0	4:13:55	2.4819	855.19
1221	0	4:14:31	2.4919	863.00
1226	0	4:15: 7	2.5019	872.54
1231	0	4:15:43	2.5119	880.34
1236	0	4:16:19	2.5219	889.02
1241	0	4:16:55	2.5319	897.69
1246	0	4:17:31	2.5419	905.50
1251	0	4:18: 7	2.5519	914.17
1256	0	4:18:43	2.5619	921.97
1261	0	4:19:19	2.5719	928.91
1266	0	4:19:55	2.5819	934.98
1271	0	4:20:31	2.5918	942.79
1276	0	4:21: 7	2.6018	949.73
1281	0	4:21:43	2.6118	956.67
1286	0	4:22:19	2.6218	963.61
1291	0	4:22:55	2.6318	970.55
1296	0	4:23:30	2.6418	976.62
1301	0	4:24: 6	2.6518	983.56
1306	0	4:24:42	2.6618	990.49
1311	0	4:25:18	2.6718	995.70
1316	0	4:25:54	2.6818	1002.64
1321	0	4:26:30	2.6918	1010.44
1326	0	4:27: 6	2.7018	1017.38
1331	0	4:27:42	2.7117	1024.32

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC

Well: TOLAND A #1

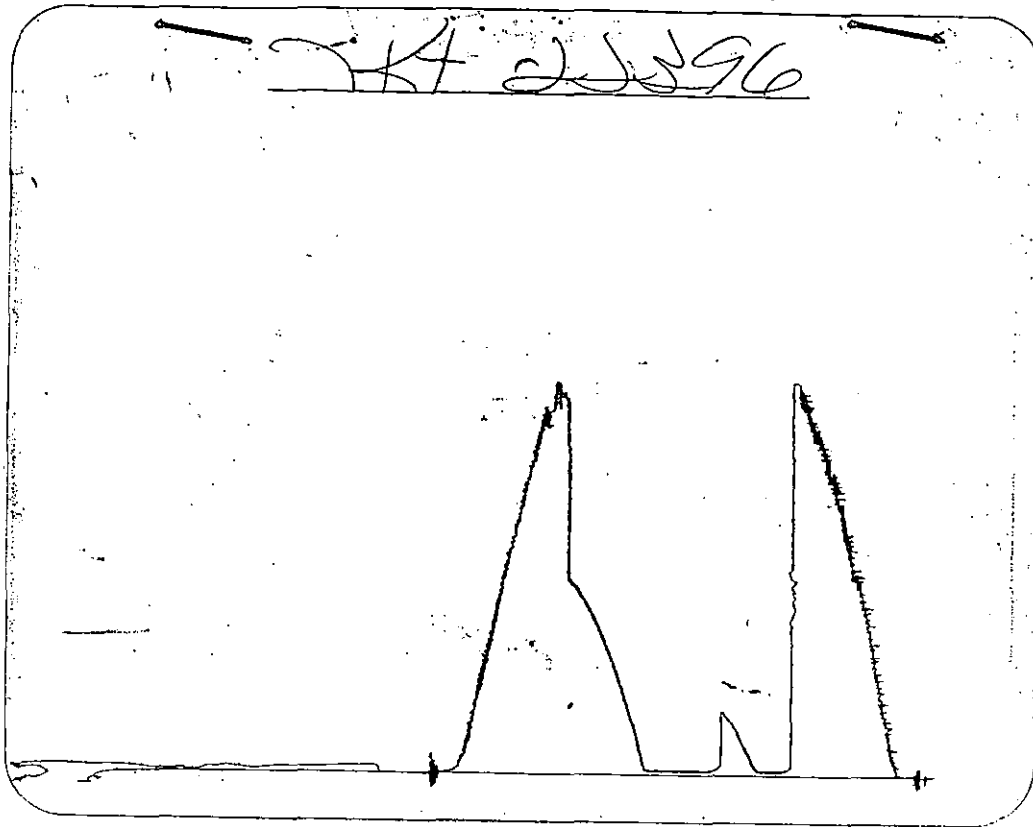
Field: TKT-22396 DST 4

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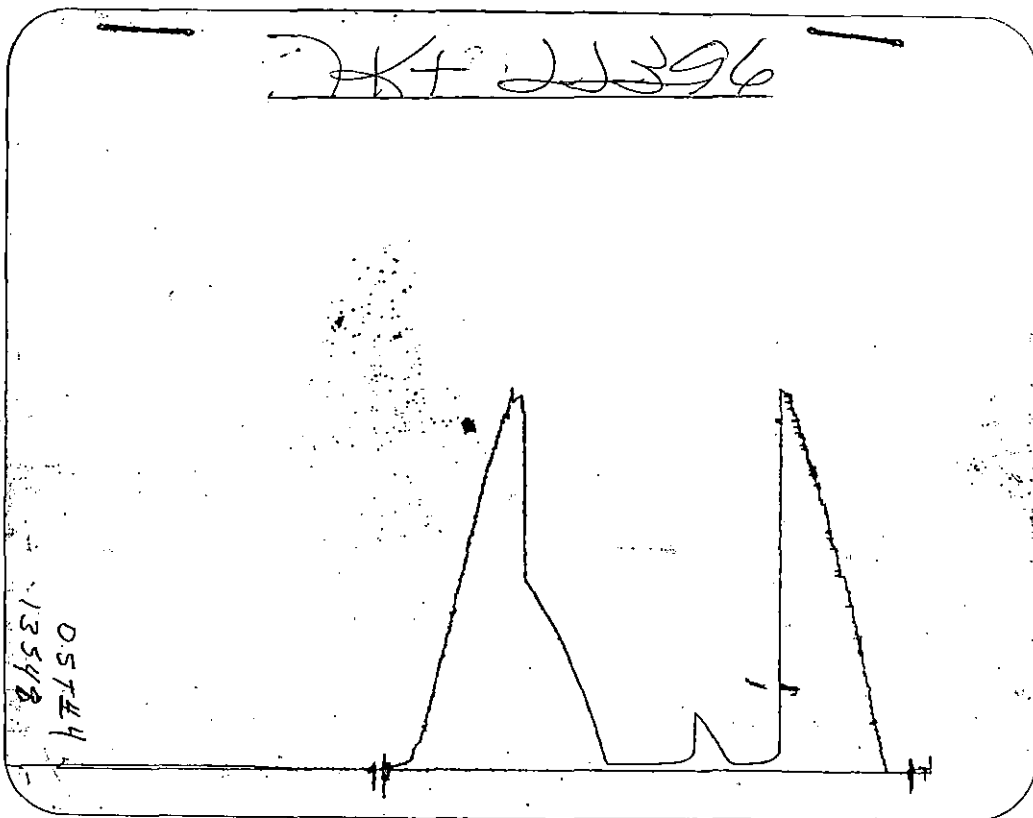
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1336	0	4:28:18	2.7217	1030.39
1341	0	4:28:54	2.7317	1035.60
1346	0	4:29:30	2.7417	1041.67
1351	0	4:30: 6	2.7517	1047.74
1356	0	4:30:42	2.7617	1052.94
1361	0	4:31:18	2.7717	1052.94
1366	0	4:31:54	2.7817	1052.94

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 2/19/97	TICKET : 22397
CUSTOMER : KNIGHTON OIL COMPANY INC	LEASE : TOLAND A
WELL : #1 TEST: 5	GEOLOGIST: MONTAGUE
ELEVATION: 1984 KB	FORMATION: VIOLA
SECTION : 17	TOWNSHIP : 25S
RANGE : 14W COUNTY: STAFFORD	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4226.00 ft	TO: 4250.00 ft	TVD: 4250.0 ft
DEPTH OF SELECTIVE ZONE:	TEST TYPE: OIL	
DEPTH OF RECORDERS: 4240.0 ft	4243.0 ft	
TEMPERATURE: 114.0		

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 : 4206.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 24.0 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: 4221.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4226.0 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 4	
MUD TYPE : CHEMICAL	VISCOSITY : 47.00 cp
WEIGHT : 9.400 ppg	WATER LOSS: 11.600 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
 - 1/2 TO 1/4 INCH. FINAL FLOW PERIOD WEAK BLOW
 THROUGHOUT - 1 TO 2 INCHES.

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 SLIGHTLY OIL CUT MUD
15.0	1.0	0.0	0.0	99.0	

RATE INFORMATION

OIL VOLUME:	0.0021 STB	TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	4.0396 STB/D
MUD VOLUME:	0.2083 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.2104 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2025.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	31.00
INITIAL SHUT-IN	45.00		62.00
FINAL FLOW	45.00	31.00	31.00
FINAL SHUT-IN	60.00		187.00

FINAL HYDROSTATIC PRESSURE: 2025.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2033.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	54.64	31.22
INITIAL SHUT-IN	45.00		58.98
FINAL FLOW	45.00	35.56	37.30
FINAL SHUT-IN	60.00		202.09

FINAL HYDROSTATIC PRESSURE: 2033.00

Company: KNIGHTON OIL COMPANY INC
 Well: TOLAND A #1
 Field: TKT 22397 DST 5

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	22:30: 7	0.0000	54.64
5	0	22:30:36	0.0080	54.64
10	0	22:31:12	0.0180	52.04
15	0	22:31:48	0.0280	48.57
20	0	22:32:24	0.0380	45.97
25	0	22:33: 0	0.0480	43.37
30	0	22:33:36	0.0580	41.63
35	0	22:34:12	0.0679	39.90
40	0	22:34:48	0.0779	38.16
45	0	22:35:24	0.0879	36.43
50	0	22:36: 0	0.0979	35.56
55	0	22:36:36	0.1079	33.83
60	0	22:37:12	0.1179	32.96
65	0	22:37:48	0.1279	32.96
70	0	22:38:24	0.1379	32.09
75	0	22:39: 0	0.1479	32.09
80	0	22:39:36	0.1579	32.09
85	0	22:40:11	0.1679	32.09
90	0	22:40:47	0.1778	31.22
95	0	22:41:23	0.1878	30.36
100	0	22:41:59	0.1978	30.36
105	0	22:42:35	0.2078	30.36
110	0	22:43:11	0.2178	29.49
115	0	22:43:47	0.2278	28.62
120	0	22:44:23	0.2378	28.62
125	0	22:44:59	0.2478	27.75
130	0	22:45:35	0.2578	27.75
135	0	22:46:11	0.2678	27.75
140	0	22:46:47	0.2778	27.75
145	0	22:47:23	0.2878	27.75
150	0	22:47:59	0.2977	27.75
155	0	22:48:35	0.3077	27.75
160	0	22:49:11	0.3177	27.75
165	0	22:49:47	0.3277	27.75
170	0	22:50:23	0.3377	28.62
175	0	22:50:59	0.3477	28.62
180	0	22:51:35	0.3577	28.62
185	0	22:52:11	0.3677	28.62
190	0	22:52:47	0.3777	28.62
195	0	22:53:23	0.3877	28.62
200	0	22:53:59	0.3977	28.62
205	0	22:54:35	0.4077	28.62
210	0	22:55:11	0.4176	28.62
215	0	22:55:47	0.4276	28.62
220	0	22:56:23	0.4376	28.62
225	0	22:56:59	0.4476	28.62
230	0	22:57:35	0.4576	28.62
235	0	22:58:11	0.4676	28.62
240	0	22:58:47	0.4776	28.62
245	0	22:59:23	0.4876	28.62
250	0	22:59:58	0.4976	29.49
255	0	23: 0:34	0.5076	29.49
260	0	23: 1:10	0.5176	31.22
END FLOW 1				
START SHUTIN 1				
265	0	23: 1:46	0.5276	32.09

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC
Well: TOLAND A #1
Field: TKT 22397 DST 5

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
270	0	23: 2:22	0.5376	32.96
275	0	23: 2:58	0.5475	33.83
280	0	23: 3:34	0.5575	34.69
285	0	23: 4:10	0.5675	35.56
290	0	23: 4:46	0.5775	37.30
295	0	23: 5:22	0.5875	39.03
300	0	23: 5:58	0.5975	40.76
305	0	23: 6:34	0.6075	41.63
310	0	23: 7:10	0.6175	43.37
315	0	23: 7:46	0.6275	44.23
320	0	23: 8:22	0.6375	45.97
325	0	23: 8:58	0.6475	46.84
330	0	23: 9:34	0.6575	47.70
335	0	23:10:10	0.6674	48.57
340	0	23:10:46	0.6774	50.31
345	0	23:11:22	0.6874	51.17
350	0	23:11:58	0.6974	52.04
355	0	23:12:34	0.7074	53.77
360	0	23:13:10	0.7174	54.64
365	0	23:13:46	0.7274	54.64
370	0	23:14:22	0.7374	54.64
375	0	23:14:58	0.7474	55.51
380	0	23:15:34	0.7574	55.51
385	0	23:16:10	0.7674	55.51
390	0	23:16:46	0.7774	55.51
395	0	23:17:22	0.7873	55.51
400	0	23:17:58	0.7973	55.51
405	0	23:18:34	0.8073	55.51
410	0	23:19:10	0.8173	55.51
415	0	23:19:46	0.8273	55.51
420	0	23:20:21	0.8373	55.51
425	0	23:20:57	0.8473	55.51
430	0	23:21:33	0.8573	55.51
435	0	23:22: 9	0.8673	55.51
440	0	23:22:45	0.8773	55.51
445	0	23:23:21	0.8873	55.51
450	0	23:23:57	0.8972	55.51
455	0	23:24:33	0.9072	55.51
460	0	23:25: 9	0.9172	55.51
465	0	23:25:45	0.9272	55.51
470	0	23:26:21	0.9372	55.51
475	0	23:26:57	0.9472	55.51
480	0	23:27:33	0.9572	55.51
485	0	23:28: 9	0.9672	55.51
490	0	23:28:45	0.9772	55.51
495	0	23:29:21	0.9872	55.51
500	0	23:29:57	0.9972	55.51
505	0	23:30:33	1.0072	55.51
510	0	23:31: 9	1.0172	55.51
515	0	23:31:45	1.0271	55.51
520	0	23:32:21	1.0371	55.51
525	0	23:32:57	1.0471	55.51
530	0	23:33:33	1.0571	55.51
535	0	23:34: 9	1.0671	55.51
540	0	23:34:45	1.0771	55.51

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC
 Well: TOLAND A #1
 Field: TKT 22397 DST 5

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
545	0	23:35:21	1.0871	55.51
550	0	23:35:57	1.0971	55.51
555	0	23:36:33	1.1071	55.51
560	0	23:37: 9	1.1171	55.51
565	0	23:37:45	1.1271	55.51
570	0	23:38:21	1.1371	55.51
575	0	23:38:57	1.1470	55.51
580	0	23:39:33	1.1570	56.38
585	0	23:40: 9	1.1670	58.11
590	0	23:40:44	1.1770	58.98
595	0	23:41:20	1.1870	58.98
END SHUTIN 1				
START FLOW 2				
596	0	23:43: 1	1.2150	35.56
601	0	23:43:37	1.2250	35.56
606	0	23:44:13	1.2350	35.56
611	0	23:44:49	1.2450	34.69
616	0	23:45:25	1.2550	34.69
621	0	23:46: 1	1.2649	33.83
626	0	23:46:37	1.2749	32.96
631	0	23:47:13	1.2849	32.96
636	0	23:47:49	1.2949	32.09
641	0	23:48:25	1.3049	32.09
646	0	23:49: 1	1.3149	31.22
651	0	23:49:37	1.3249	31.22
656	0	23:50:13	1.3349	31.22
661	0	23:50:49	1.3449	31.22
666	0	23:51:25	1.3549	30.36
671	0	23:52: 1	1.3649	30.36
676	0	23:52:37	1.3749	30.36
681	0	23:53:13	1.3848	30.36
686	0	23:53:49	1.3948	30.36
691	0	23:54:25	1.4048	30.36
696	0	23:55: 1	1.4148	30.36
701	0	23:55:37	1.4248	30.36
706	0	23:56:12	1.4348	30.36
711	0	23:56:48	1.4448	30.36
716	0	23:57:24	1.4548	30.36
721	0	23:58: 0	1.4648	29.49
726	0	23:58:36	1.4748	29.49
731	0	23:59:12	1.4848	29.49
736	0	23:59:48	1.4948	29.49
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741	1	0: 0:24	1.5047	29.49
746	1	0: 1: 0	1.5147	29.49
751	1	0: 1:36	1.5247	29.49
756	1	0: 2:12	1.5347	29.49
761	1	0: 2:48	1.5447	29.49
766	1	0: 3:24	1.5547	29.49
771	1	0: 4: 0	1.5647	29.49
776	1	0: 4:36	1.5747	29.49
781	1	0: 5:12	1.5847	29.49
786	1	0: 5:48	1.5947	29.49
791	1	0: 6:24	1.6047	29.49
796	1	0: 7: 0	1.6147	29.49

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC
Well: TOLAND A #1
Field: TKT 22397 DST 5

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
801	1	0: 7:36	1.6246	29.49
806	1	0: 8:12	1.6346	29.49
811	1	0: 8:48	1.6446	29.49
816	1	0: 9:24	1.6546	29.49
821	1	0:10: 0	1.6646	29.49
826	1	0:10:36	1.6746	29.49
831	1	0:11:12	1.6846	29.49
836	1	0:11:48	1.6946	29.49
841	1	0:12:24	1.7046	30.36
846	1	0:13: 0	1.7146	30.36
851	1	0:13:36	1.7246	30.36
856	1	0:14:12	1.7345	30.36
861	1	0:14:48	1.7445	30.36
866	1	0:15:24	1.7545	30.36
871	1	0:16: 0	1.7645	30.36
876	1	0:16:35	1.7745	30.36
881	1	0:17:11	1.7845	31.22
886	1	0:17:47	1.7945	31.22
891	1	0:18:23	1.8045	32.09
896	1	0:18:59	1.8145	32.09
901	1	0:19:35	1.8245	32.09
906	1	0:20:11	1.8345	32.09
911	1	0:20:47	1.8445	32.09
916	1	0:21:23	1.8544	32.09
921	1	0:21:59	1.8644	32.09
926	1	0:22:35	1.8744	32.09
931	1	0:23:11	1.8844	32.09
936	1	0:23:47	1.8944	32.09
941	1	0:24:23	1.9044	32.09
946	1	0:24:59	1.9144	32.09
951	1	0:25:35	1.9244	32.09
956	1	0:26:11	1.9344	32.96
961	1	0:26:47	1.9444	33.83
966	1	0:27:23	1.9544	34.69
971	1	0:27:59	1.9644	34.69
976	1	0:28:35	1.9743	34.69
981	1	0:29:11	1.9843	34.69
986	1	0:29:47	1.9943	35.56
991	1	0:30:23	2.0043	36.43
996	1	0:30:59	2.0143	37.30
		END FLOW 2		
		START SHUTIN 2		
997	1	0:31: 6	2.0163	37.30
1001	1	0:31:35	2.0243	39.03
1006	1	0:32:11	2.0343	39.90
1011	1	0:32:47	2.0443	40.76
1016	1	0:33:23	2.0543	41.63
1021	1	0:33:59	2.0643	43.37
1026	1	0:34:35	2.0743	44.23
1031	1	0:35:11	2.0843	45.97
1036	1	0:35:47	2.0942	48.57
1041	1	0:36:22	2.1042	50.31
1046	1	0:36:58	2.1142	52.04
1051	1	0:37:34	2.1242	53.77
1056	1	0:38:10	2.1342	56.38

WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1061	1	0:38:46	2.1442	58.11
1066	1	0:39:22	2.1542	59.85
1071	1	0:39:58	2.1642	61.58
1076	1	0:40:34	2.1742	62.45
1081	1	0:41:10	2.1842	65.05
1086	1	0:41:46	2.1942	65.92
1091	1	0:42:22	2.2042	67.65
1096	1	0:42:58	2.2141	70.25
1101	1	0:43:34	2.2241	72.86
1106	1	0:44:10	2.2341	75.46
1111	1	0:44:46	2.2441	77.19
1116	1	0:45:22	2.2541	78.93
1121	1	0:45:58	2.2641	79.79
1126	1	0:46:34	2.2741	81.53
1131	1	0:47:10	2.2841	84.13
1136	1	0:47:46	2.2941	85.87
1141	1	0:48:22	2.3041	86.73
1146	1	0:48:58	2.3141	87.60
1151	1	0:49:34	2.3241	89.34
1156	1	0:50:10	2.3340	91.07
1161	1	0:50:46	2.3440	92.80
1166	1	0:51:22	2.3540	94.54
1171	1	0:51:58	2.3640	97.14
1176	1	0:52:34	2.3740	98.88
1181	1	0:53:10	2.3840	101.48
1186	1	0:53:46	2.3940	104.95
1191	1	0:54:22	2.4040	106.68
1196	1	0:54:58	2.4140	108.42
1201	1	0:55:34	2.4240	110.15
1206	1	0:56: 9	2.4340	111.89
1211	1	0:56:45	2.4440	113.62
1216	1	0:57:21	2.4539	115.36
1221	1	0:57:57	2.4639	117.09
1226	1	0:58:33	2.4739	118.82
1231	1	0:59: 9	2.4839	120.56
1236	1	0:59:45	2.4939	122.29
1241	1	1: 0:21	2.5039	124.03
1246	1	1: 0:57	2.5139	126.63
1251	1	1: 1:33	2.5239	129.23
1256	1	1: 2: 9	2.5339	130.97
1261	1	1: 2:45	2.5439	132.70
1266	1	1: 3:21	2.5539	135.30
1271	1	1: 3:57	2.5639	137.04
1276	1	1: 4:33	2.5738	138.77
1281	1	1: 5: 9	2.5838	140.51
1286	1	1: 5:45	2.5938	142.24
1291	1	1: 6:21	2.6038	143.98
1296	1	1: 6:57	2.6138	146.58
1301	1	1: 7:33	2.6238	148.31
1306	1	1: 8: 9	2.6338	150.05
1311	1	1: 8:45	2.6438	151.78
1316	1	1: 9:21	2.6538	154.39
1321	1	1: 9:57	2.6638	156.99
1326	1	1:10:33	2.6738	159.59
1331	1	1:11: 9	2.6838	162.19

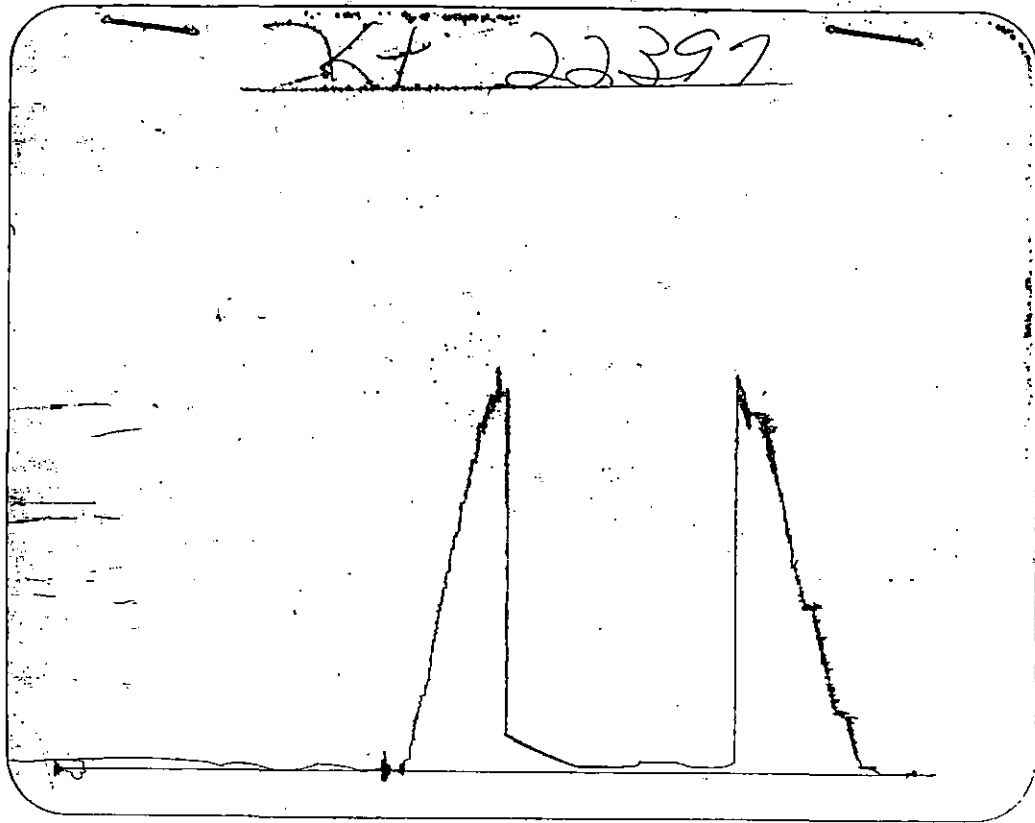
WESTERN TESTING CO., INC.

Company: KNIGHTON OIL COMPANY INC.
Well: TOLAND A #1
Field: TKT 22397 DST 5

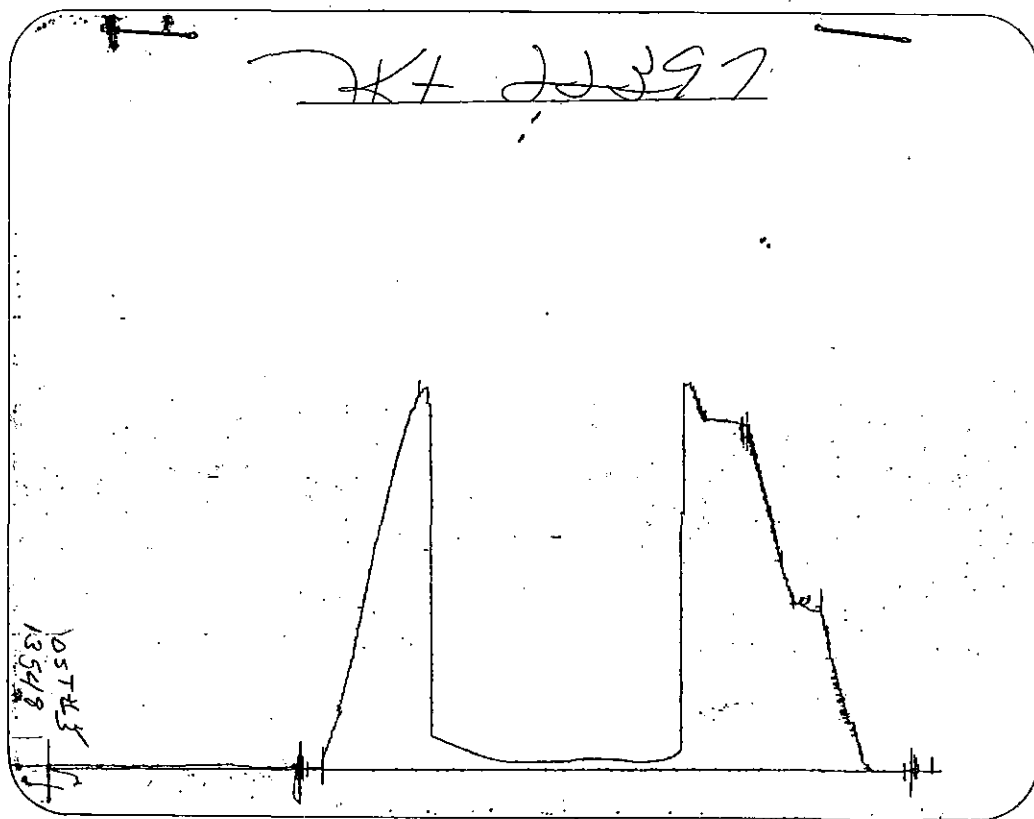
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1336	1	1:11:45	2.6937	163.93
1341	1	1:12:21	2.7037	166.53
1346	1	1:12:57	2.7137	168.26
1351	1	1:13:33	2.7237	170.86
1356	1	1:14: 9	2.7337	172.60
1361	1	1:14:45	2.7437	175.20
1366	1	1:15:21	2.7537	176.94
1371	1	1:15:57	2.7637	179.54
1376	1	1:16:32	2.7737	182.14
1381	1	1:17: 8	2.7837	184.74
1386	1	1:17:44	2.7937	187.34
1391	1	1:18:20	2.8037	189.95
1396	1	1:18:56	2.8136	192.55
1401	1	1:19:32	2.8236	195.15
1406	1	1:20: 8	2.8336	196.88
1411	1	1:20:44	2.8436	199.49
1416	1	1:21:20	2.8536	201.22
1421	1	1:21:56	2.8636	202.09

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder