

FORM MUST BE TYPED

SIDE ONE

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

Operator: License # 5135  
Name: John O. Farmer, Inc.  
Address P.O. Box 352  
  
City/State/Zip Russell, KS 67665

Purchaser: \_\_\_\_\_

Operator Contact Person: Marge Schulte  
Phone ( 913 ) 483-3144

Contractor: Name: Abercrombie RTD, Inc.  
License: 30684  
Wellsite Geologist: John O. Farmer IV

Designate Type of Completion  
 New Well  Re-Entry  Workover  
  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc.)  
If Workover/Re-Entry: old well info. as follows:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
  
 Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back \_\_\_\_\_ PBDT  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_  
  
6-28-96 7-7-96  
Spud Date Date Reached TD Completion Date

API NO. 15- 109-20,629-00-00  
County Logan  
130' North & 160' West of \_\_\_\_\_ E  
\_\_\_\_\_ - NW - NE - SE Sec. 24 Twp. 11S Rge. 32 X W

2440 Feet from S (circle one) Line of Section  
1150 Feet from E (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, (SE) NW or SW (circle one)

Lease Name Durham Well # 1  
Field Name Campus Southwest  
Producing Formation \_\_\_\_\_

Elevation: Ground 3002' KB 3007'  
Total Depth 4660' PBDT \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 208 Feet

Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cm.

Drilling Fluid Management Plan — DFA U.C. 12-16-97  
(Data must be collected from the Reserve Pit)

Chloride content 8,000 ppm Fluid volume 1,800 bbls  
Dewatering method used evaporation

Location of fluid disposal if hauled offsite:  
(not hauled) \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. JUL 19 1996  
S Rng. \_\_\_\_\_ E/W

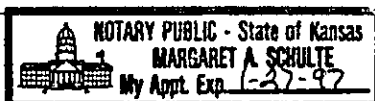
County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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

Signature John O. Farmer III  
John O. Farmer III  
Title President Date 7-18-96  
Subscribed and sworn to before me this 18th day of July,  
19 96.  
Notary Public Margaret A. Schulte  
Margaret A. Schulte  
Date Commission Expires \_\_\_\_\_

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)



SIDE TWO

Operator Name John D. Farmer, Inc. Lease Name Durham Well # 1  
 East County Logan  
 Sec. 24 Twp. 11S Rge. 32  West

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Base/Anhydrite	2532' (+475)
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3980' (-973)
List All E.Logs Run:	RA Guard Log	Lansing	4020' (-1013)
		Stark Shale	4240' (-1233)
		Base Kansas City	4301' (-1295)
		Pawnee	4422' (-1415)
		Fort Scott	4488' (-1481)
		Cherokee	4516' (-1509)
		Johnson Zone	4558' (-1551)
		Mississippi	4619' (-1612)
		L.T.D.	4660' (-1653)

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#	208'	60/40 Pozmix	160	3% C.C., 2% gel

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

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

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

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

Production Interval: \_\_\_\_\_

# ALLIED CEMENTING CO., INC.

3888

## ORIGINAL

P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

15-109-20629-0000

OAKLEY, KS

DATE <u>6-28-96</u>	SEC. <u>24</u>	TWP. <u>11S</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>4:45 PM</u>	JOB START <u>6:00 PM</u>	JOB FINISH <u>6:30 PM</u>
LEASE <u>DURHAM</u>	WELL # <u>1</u>	LOCATION <u>OAKLEY, KS 2E-24S</u>			COUNTY <u>LOGAN</u>	STATE <u>KS</u>	

OLD OR (NEW) (Circle one)

CONTRACTOR Abraham RITA RIG OWNER SAME

TYPE OF JOB SURFACE CEMENT

HOLE SIZE 12 1/2" T.D. 213'

CASING SIZE 8 5/8" DEPTH 208'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

AMOUNT ORDERED 160 SKS 6040 P.C. 38 CC 28 GEL

COMMON	<u>96</u>	<u>SKS</u>	@	<u>7.20</u>	<u>691.20</u>
POZMIX	<u>64</u>	<u>SKS</u>	@	<u>3.13</u>	<u>201.12</u>
GEL	<u>3</u>	<u>SKS</u>	@	<u>9.00</u>	<u>27.00</u>
CHLORIDE	<u>5</u>	<u>SKS</u>	@	<u>28.00</u>	<u>140.00</u>

### EQUIPMENT

PUMP TRUCK CEMENTER TERRY

# 300 HELPER WAYNE

BULK TRUCK

# 212 DRIVER JEFF

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

HANDLING	<u>160</u>	<u>SKS</u>	@	<u>1.05</u>	<u>168.00</u>
MILEAGE	<u>4 1/2</u>	<u>per SK/mile</u>			<u>80.00</u>

TOTAL 1,309.20

### REMARKS:

Displacement 12 1/2 BBL.

CEMENT SED CERC.

### SERVICE

DEPTH OF JOB	<u>208'</u>			
PUMP TRUCK CHARGE				<u>445.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>5 miles</u>	@	<u>2.85</u>	<u>142.50</u>
PLUG	<u>8 3/8 SURFACE</u>	@		<u>45.00</u>

TOTAL 504.25

CHARGE TO: John O. Farmer Inc.

STREET 370 W Wichita

CITY Russell STATE Kan ZIP 67665

### RECEIVED FLOAT EQUIPMENT

KANSAS CORPORATION

JUL 10 1996

CONSERVATION DIVISION  
WICHITA, KS

TOTAL \_\_\_\_\_

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

SIGNATURE [Signature]

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# ALLIED CEMENTING CO., INC.

3892

15-109-20629-0000

TO P.O. BOX 31  
RUSSELL, KANSAS 67665

## ORIGINAL

SERVICE POINT:

OAKLEY

DATE <u>7-7-96</u>	SEC. <u>24</u>	TWP. <u>11S</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>12:15 PM</u>	JOB START <u>1:00 PM</u>	JOB FINISH <u>3:30 PM</u>
LEASE <u>DURHAM</u>	WELL # <u>1</u>	LOCATION <u>OAKLEY 2E-24S</u>			COUNTY <u>LOGAN</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR ABERCROMBIE RTO #1678 OWNER SAME

TYPE OF JOB PTA CEMENT

HOLE SIZE 7 7/8" T.D. 4660'

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2" DEPTH 2520'

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

### EQUIPMENT

PUMP TRUCK CEMENTER TEARY

# 300 HELPER WAYNE

BULK TRUCK \_\_\_\_\_

# 315 DRIVER DEAN

BULK TRUCK \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

AMOUNT ORDERED 190 SKS 6400 @ 26¢

1/4" FLO-SEAL

COMMON 114 SKS @ 7.20 820.80

POZMIX 76 SKS @ 3.15 239.40

GEL 10 SKS @ 9.50 95.00

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

48" Flo-Seal @ 1.15 55.20

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING 190 SKS @ 1.05 199.80

MILEAGE 4¢ per 1/100 mile 80.00

TOTAL 1,489.90

### REMARKS:

25 SKS AT 2520'

100 SKS AT 1590

40 SKS AT 250'

10 SKS AT 40'

15 SKS AT Hole

### SERVICE

DEPTH OF JOB 2520'

PUMP TRUCK CHARGE \_\_\_\_\_ 550.00

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE 5-miles @ 2.85 14.25

PLUG 8 3/8 DRY Hole @ \_\_\_\_\_ 23.00

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL 587.25

CHARGE TO: John O. Farmer

STREET P.O. Box 352

CITY Russell STATE Kan ZIP 67665

### FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

KANSAS CORPORATION COMMISSION \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

JUL 19 1996 @ \_\_\_\_\_

TOTAL \_\_\_\_\_

CONSERVATION \_\_\_\_\_  
WIND \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

To Allied Cementing Co., Inc.

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

SIGNATURE Anthony [Signature]

ORIGINAL

15-109-20629-0000

DST REPORT

GENERAL INFORMATION

15-109-20629

DATE : 7/1/96  
 CUSTOMER : JOHN O FARMER, INC.  
 WELL : #1 TEST: 1  
 ELEVATION: 3007 KB  
 SECTION : 24  
 RANGE : 32W COUNTY: LOGAN  
 GAUGE SN#: 10270 RANGE : 4150

ORIGINAL

TICKET : 22086  
 LEASE : DURHAM  
 GEOLOGIST: FARMER  
 FORMATION: TORONTO  
 TOWNSHIP : 11S  
 STATE : KS  
 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3991.00 ft TO: 4014.00 ft TVD: 4014.0 ft  
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
 DEPTH OF RECORDERS: 4006.0 ft 4009.0 ft  
 TEMPERATURE: 112.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	506.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH :	3465.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	23.0 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:	3986.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3991.0 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. :	ABERCROMBIE RIG 8	VISCOSITY :	56.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	11.000 cc
WEIGHT :	8.900 ppg	SERIAL NUMBER:	
CHLORIDES :	2200 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW IN 5 MINUTES. FINAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW IN 12 MINUTES.

ORIGINAL

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	180 FT GAS ABOVE FLUID
150.0	100.0	0.0	0.0	0.0	CLEAN OIL GRAVITY 37
90.0	10.0	0.0	55.0	35.0	OIL CUT MUDDY WATER
180.0	3.0	0.0	79.0	18.0	SL OIL CUT MUDDY WATER
600.0	0.5	0.0	99.5	0.0	SL OIL CUT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 60000 PPM
0.0	0.0	0.0	0.0	0.0	R W .085 @ 65 DEGREES F

RATE INFORMATION

OIL VOLUME:	2.3304 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	38.6407 STB/D
MUD VOLUME:	0.8963 STB	AVERAGE WATER RATE:	134.0413 STB/D
WATER VOLUME:	7.5659 STB		
TOTAL FLUID :	10.7926 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1952.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	114.00	354.00
INITIAL SHUT-IN	45.00		894.00
FINAL FLOW	45.00	416.00	499.00
FINAL SHUT-IN	45.00		863.00

FINAL HYDROSTATIC PRESSURE: 1931.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1943.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	113.91	353.61
INITIAL SHUT-IN	45.00		881.15
FINAL FLOW	45.00	416.17	498.01
FINAL SHUT-IN	45.00		869.30

FINAL HYDROSTATIC PRESSURE: 1934.00

Company: JOHN O FARMER INC.  
 Well: #1 DURHAM DST 1  
 Field: TKT 22086

[Monday: July 1, 1996]  
 Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	1:10: 7	0.0000	113.91
9	0	1:11: 4	0.0160	112.99
18	0	1:12: 9	0.0340	117.27
27	0	1:13:14	0.0522	125.88
36	0	1:14:20	0.0703	135.36
45	0	1:15:25	0.0884	143.98
54	0	1:16:30	0.1066	152.59
63	0	1:17:36	0.1248	163.81
72	0	1:18:41	0.1429	174.16
81	0	1:19:47	0.1611	185.37
90	0	1:20:52	0.1793	194.86
99	0	1:21:57	0.1974	205.21
108	0	1:23: 3	0.2156	215.55
117	0	1:24: 8	0.2338	227.64
126	0	1:25:13	0.2519	233.65
135	0	1:26:18	0.2700	239.66
144	0	1:27:24	0.2880	245.68
153	0	1:28:29	0.3061	250.82
162	0	1:29:34	0.3242	255.97
171	0	1:30:39	0.3422	260.24
180	0	1:31:44	0.3603	266.26
189	0	1:32:49	0.3784	271.40
198	0	1:33:54	0.3965	277.42
207	0	1:34:59	0.4146	285.16
216	0	1:36: 4	0.4327	287.71
225	0	1:37: 9	0.4507	290.25
234	0	1:38:14	0.4688	294.53
243	0	1:39:19	0.4868	300.54
252	0	1:40:24	0.5049	303.08
261	0	1:41:29	0.5229	309.10
270	0	1:42:34	0.5410	314.24
279	0	1:43:39	0.5590	315.92
288	0	1:44:44	0.5771	321.06
297	0	1:45:49	0.5952	326.21
306	0	1:46:54	0.6133	333.09
315	0	1:47:59	0.6313	334.76
324	0	1:49: 4	0.6494	339.91
333	0	1:50: 9	0.6675	345.92
342	0	1:51:14	0.6855	348.46
351	0	1:52:19	0.7036	353.61
END FLOW 1				
START SHUTIN 1				
355	0	1:52:58	0.7142	502.76
358	0	1:53:26	0.7220	610.29
366	0	1:54:27	0.7391	671.81
375	0	1:55:33	0.7575	696.91
384	0	1:56:39	0.7758	715.93
393	0	1:57:45	0.7941	733.22
402	0	1:58:51	0.8123	744.43
411	0	1:59:56	0.8304	756.52
420	0	2: 1: 1	0.8486	763.40
429	0	2: 2: 7	0.8667	771.15
438	0	2: 3:12	0.8848	778.89
447	0	2: 4:17	0.9029	786.64

ORIGINAL

Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 1  
Field: TKT 22086

[Monday: July 1, 1996]  
Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
456	0	2: 5:22	0.9210	790.92
465	0	2: 6:27	0.9391	796.93
474	0	2: 7:32	0.9571	802.08
483	0	2: 8:37	0.9752	806.35
492	0	2: 9:42	0.9933	810.63
501	0	2:10:47	1.0113	814.91
510	0	2:11:52	1.0294	820.06
519	0	2:12:57	1.0475	825.20
528	0	2:14: 2	1.0655	828.61
537	0	2:15: 7	1.0836	832.89
546	0	2:16:12	1.1016	836.30
555	0	2:17:17	1.1197	839.71
564	0	2:18:22	1.1377	843.12
573	0	2:19:27	1.1557	846.53
582	0	2:20:32	1.1738	848.21
591	0	2:21:37	1.1918	850.75
600	0	2:22:42	1.2098	854.16
609	0	2:23:47	1.2279	857.57
618	0	2:24:52	1.2459	860.12
627	0	2:25:57	1.2639	860.92
636	0	2:27: 2	1.2819	863.47
645	0	2:28: 6	1.3000	866.01
654	0	2:29:11	1.3180	867.69
663	0	2:30:16	1.3360	871.10
672	0	2:31:21	1.3541	874.51
681	0	2:32:26	1.3721	874.45
690	0	2:33:31	1.3901	877.86
699	0	2:34:36	1.4081	879.54
708	0	2:35:41	1.4261	879.48
717	0	2:36:45	1.4441	881.15
		END SHUTIN 1		
		START FLOW 2		
723	0	2:38:19	1.4700	416.17
732	0	2:39:23	1.4880	416.11
741	0	2:40:28	1.5060	416.05
750	0	2:41:33	1.5239	413.39
759	0	2:42:38	1.5419	412.46
768	0	2:43:42	1.5599	414.14
777	0	2:44:47	1.5779	414.95
786	0	2:45:52	1.5959	414.89
795	0	2:46:57	1.6139	415.70
804	0	2:48: 1	1.6319	415.64
813	0	2:49: 6	1.6499	417.32
822	0	2:50:11	1.6680	419.86
831	0	2:51:16	1.6860	422.40
840	0	2:52:21	1.7040	424.08
849	0	2:53:26	1.7221	428.36
858	0	2:54:31	1.7401	431.77
867	0	2:55:36	1.7581	432.58
876	0	2:56:41	1.7761	435.12
885	0	2:57:46	1.7942	438.53
894	0	2:58:51	1.8122	441.07
903	0	2:59:56	1.8303	445.35
912	0	3: 1: 1	1.8483	449.63
921	0	3: 2: 5	1.8664	452.17

WESTERN TESTING CO., INC.



15-109-20629-0000

Company: JOHN O FARMER INC.  
 Well: #1 DURHAM DST 1  
 Field: TKT 22086

[Monday: July 1, 1996]  
 Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
930	0	3: 3:10	1.8844	455.58
939	0	3: 4:15	1.9024	458.99
948	0	3: 5:20	1.9205	461.54
957	0	3: 6:25	1.9385	464.08
966	0	3: 7:30	1.9565	466.62
975	0	3: 8:35	1.9746	469.17
984	0	3: 9:40	1.9926	473.45
993	0	3:10:45	2.0106	475.99
1002	0	3:11:50	2.0286	476.80
1011	0	3:12:55	2.0467	479.34
1020	0	3:14: 0	2.0647	481.88
1029	0	3:15:12	2.0847	484.42
1038	0	3:16:17	2.1028	487.83
1047	0	3:17:22	2.1208	491.24
1056	0	3:18:26	2.1388	493.79
1065	0	3:19:31	2.1569	495.46
1074	0	3:20:36	2.1749	498.01
END FLOW 2				
START SHUTIN 2				
1080	0	3:21:27	2.1889	615.92
1082	0	3:21:43	2.1934	641.93
1090	0	3:22:44	2.2103	699.12
1099	0	3:23:50	2.2287	721.61
1108	0	3:24:56	2.2470	737.16
1117	0	3:26: 1	2.2652	749.25
1126	0	3:27: 6	2.2833	757.86
1135	0	3:28:12	2.3014	766.47
1144	0	3:29:17	2.3195	774.22
1153	0	3:30:22	2.3377	781.10
1162	0	3:31:27	2.3557	786.25
1171	0	3:32:32	2.3738	792.26
1180	0	3:33:37	2.3919	797.40
1189	0	3:34:42	2.4099	800.82
1198	0	3:35:47	2.4280	805.09
1207	0	3:36:52	2.4460	808.50
1216	0	3:37:57	2.4641	813.65
1225	0	3:39: 2	2.4821	815.33
1234	0	3:40: 7	2.5002	817.87
1243	0	3:41:12	2.5182	820.41
1252	0	3:42:17	2.5362	823.82
1261	0	3:43:22	2.5543	826.37
1270	0	3:44:27	2.5723	830.64
1276	0	3:45:39	2.5923	832.31
1285	0	3:46:44	2.6104	836.59
1294	0	3:47:49	2.6284	838.27
1303	0	3:48:54	2.6464	840.81
1312	0	3:49:59	2.6645	842.49
1321	0	3:51: 3	2.6825	844.16
1330	0	3:52: 8	2.7005	845.84
1339	0	3:53:13	2.7185	848.38
1348	0	3:54:18	2.7365	850.06
1357	0	3:55:23	2.7545	851.73
1366	0	3:56:28	2.7726	853.41
1375	0	3:57:33	2.7906	855.95
1384	0	3:58:38	2.8086	857.63

WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 1  
Field: TKT 22086

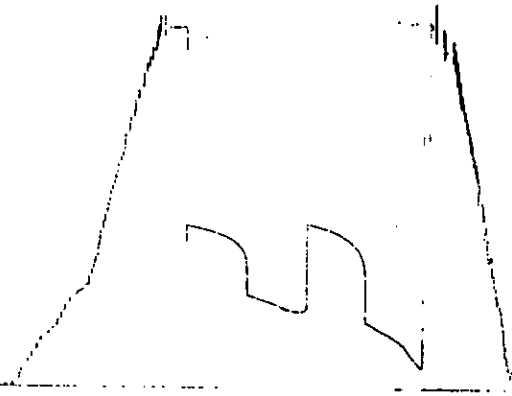
[Monday: July 1, 1996]  
Page 4

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1393	0	3:59:42	2.8266	859.31
1402	0	4: 0:47	2.8446	860.98
1411	0	4: 1:52	2.8626	861.79
1420	0	4: 2:57	2.8806	863.47
1429	0	4: 4: 2	2.8987	865.14
1438	0	4: 5: 7	2.9167	866.82
1447	0	4: 6:11	2.9347	868.50
1456	0	4: 7:16	2.9527	869.30

WESTERN TESTING CO., INC.

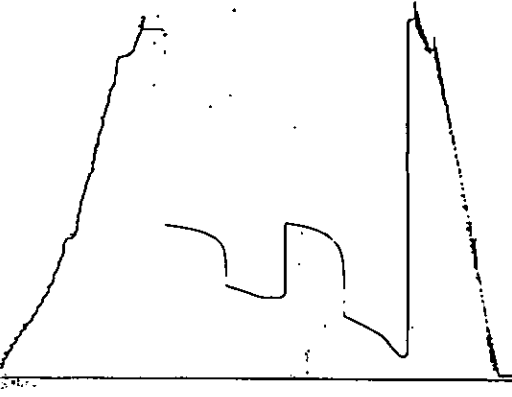
15-109-20629-0000

OST #1  
10270



Inside Recorder

OST #1  
13548



Outside Recorder

## DST REPORT

### GENERAL INFORMATION

DATE	: 7/2/96	TICKET	: 22087
CUSTOMER	: JOHN O FARMER, INC.	LEASE	: DURHAM
WELL	: #1	TEST: 2	GEOLOGIST: FARMER
ELEVATION	: 3007 KB	FORMATION	: LANSING B
SECTION	: 24	TOWNSHIP	: 11S
RANGE	: 32W	COUNTY: LOGAN	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

### WELL INFORMATION

PERFORATION INTERVAL FROM: 4039.00 ft TO: 4064.00 ft TVD: 4064.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 4056.0 ft 4059.0 ft  
TEMPERATURE: 113.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	506.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH :	3513.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	25.0 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:	4034.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4039.0 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. :	ABERCROMBIE RIG 8	VISCOSITY :	55.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.000 cc
WEIGHT :	9.000 ppg	SERIAL NUMBER:	
CHLORIDES :	1000 ppm	REVERSED OUT?:	YES
JARS-MAKE :			
DID WELL FLOW?:	NO		

### COMMENTS

#### Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW IN 2 MINUTES. FINAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW IN 3 MINUTES.

## DST REPORT (CONTINUED)

## FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2.0	100.0	0.0	0.0	0.0	CLEAN OIL
240.0	0.0	0.0	70.0	30.0	MUDDY WATER W/SCUM OF OIL
1500.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 61000 PPM
0.0	0.0	0.0	0.0	0.0	RW .08 @ 70 DEGREES F

## RATE INFORMATION

OIL VOLUME:	0.0281 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.6733 STB/D
MUD VOLUME:	1.0099 STB	AVERAGE WATER RATE:	501.3983 STB/D
WATER VOLUME:	19.8817 STB		
TOTAL FLUID :	20.9196 STB		

## FIELD TIME &amp; PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1983.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	229.00	624.00
INITIAL SHUT-IN	30.00		1122.00
FINAL FLOW	30.00	738.00	883.00
FINAL SHUT-IN	30.00		1091.00

FINAL HYDROSTATIC PRESSURE: 1952.00

## OFFICE TIME &amp; PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1985.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	245.46	642.69
INITIAL SHUT-IN	30.00		1133.60
FINAL FLOW	30.00	756.31	905.50
FINAL SHUT-IN	30.00		1108.45

FINAL HYDROSTATIC PRESSURE: 1942.00

Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 2  
Field: TKT 22087

[Tuesday: July 2, 1996]  
Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
-----				
START FLOW 1				
1	0	16:12: 2	0.0000	245.46
10	0	16:13: 7	0.0180	259.33
19	0	16:14:12	0.0360	282.75
28	0	16:15:17	0.0540	308.77
36	0	16:16:21	0.0719	332.19
45	0	16:17:26	0.0899	351.27
54	0	16:18:31	0.1079	372.09
63	0	16:19:36	0.1259	390.30
72	0	16:20:40	0.1439	412.85
81	0	16:21:45	0.1619	429.33
90	0	16:22:50	0.1798	450.15
99	0	16:23:55	0.1978	464.89
108	0	16:24:59	0.2158	482.24
117	0	16:26: 4	0.2338	498.72
126	0	16:27: 9	0.2518	509.99
135	0	16:28:13	0.2698	528.21
144	0	16:29:18	0.2878	546.42
153	0	16:30:23	0.3058	560.30
162	0	16:31:28	0.3237	575.04
171	0	16:32:32	0.3417	587.18
180	0	16:34:28	0.3737	608.00
187	0	16:35:32	0.3917	618.41
196	0	16:36:37	0.4097	632.29
205	0	16:37:42	0.4277	642.69
END FLOW 1				
START SHUTIN 1				
210	0	16:38:32	0.4416	651.37
211	0	16:38:47	0.4456	654.84
220	0	16:39:51	0.4636	965.34
229	0	16:40:56	0.4816	1003.50
238	0	16:42: 1	0.4996	1026.92
245	0	16:43: 6	0.5176	1043.40
253	0	16:44:10	0.5356	1052.94
257	0	16:46:27	0.5735	1072.02
266	0	16:47:32	0.5915	1078.96
275	0	16:48:36	0.6095	1084.17
276	0	16:51: 8	0.6515	1096.31
285	0	16:52:12	0.6694	1100.65
294	0	16:53:17	0.6874	1104.11
303	0	16:54:22	0.7054	1107.58
312	0	16:55:27	0.7234	1111.05
321	0	16:56:31	0.7414	1113.66
330	0	16:57:36	0.7594	1117.12
339	0	16:58:41	0.7774	1118.86
348	0	16:59:46	0.7953	1121.46
357	0	17: 0:50	0.8133	1124.06
366	0	17: 1:55	0.8313	1125.80
375	0	17: 3: 0	0.8493	1127.53
384	0	17: 4: 5	0.8673	1130.13
393	0	17: 5: 9	0.8853	1131.00
402	0	17: 6:14	0.9032	1131.87
411	0	17: 7:19	0.9212	1133.60
420	0	17: 8:23	0.9392	1134.47
429	0	17: 9:28	0.9572	1133.60

WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC.  
 Well: #1 DURHAM DST 2  
 Field: TKT 22087

[Tuesday: July 2, 1996]  
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
END SHUTIN 1				
START FLOW 2				
430	0	17:10:47	0.9791	756.31
439	0	17:11:52	0.9972	755.45
448	0	17:12:57	1.0152	755.45
457	0	17:14: 2	1.0331	756.31
466	0	17:15: 6	1.0511	758.92
475	0	17:16:11	1.0691	764.12
484	0	17:17:16	1.0871	770.19
493	0	17:18:21	1.1051	778.00
502	0	17:19:25	1.1231	785.80
511	0	17:20:30	1.1410	795.34
520	0	17:21:35	1.1590	803.15
529	0	17:22:40	1.1770	810.96
538	0	17:26:30	1.2410	835.24
547	0	17:27:35	1.2589	843.05
556	0	17:28:39	1.2769	850.85
565	0	17:29:44	1.2949	856.92
574	0	17:30:49	1.3129	863.00
583	0	17:31:53	1.3309	869.93
592	0	17:32:58	1.3489	876.87
601	0	17:34: 3	1.3669	881.21
608	0	17:35: 8	1.3849	888.15
617	0	17:36:12	1.4028	893.35
626	0	17:37:17	1.4208	899.42
635	0	17:38:22	1.4388	905.50
END FLOW 2				
START SHUTIN 2				
643	0	17:39:20	1.4548	985.29
644	0	17:39:27	1.4568	988.76
653	0	17:40:31	1.4748	1021.72
662	0	17:41:36	1.4928	1035.60
671	0	17:42:41	1.5107	1046.87
680	0	17:43:46	1.5287	1056.41
689	0	17:44:50	1.5467	1064.22
698	0	17:45:55	1.5647	1070.29
707	0	17:47: 0	1.5827	1073.76
716	0	17:48: 5	1.6007	1078.09
725	0	17:49: 9	1.6186	1080.70
734	0	17:50:14	1.6366	1085.03
743	0	17:51:19	1.6546	1087.64
752	0	17:52:24	1.6726	1089.37
761	0	17:53:28	1.6906	1091.97
770	0	17:54:33	1.7086	1093.71
779	0	17:55:38	1.7266	1095.44
788	0	17:56:43	1.7445	1097.18
797	0	17:57:47	1.7625	1098.91
806	0	17:58:52	1.7805	1099.78
815	0	17:59:57	1.7985	1102.38
824	0	18: 1: 2	1.8165	1102.38
833	0	18: 2: 6	1.8345	1103.25
840	0	18: 4:16	1.8704	1104.98
849	0	18: 5:21	1.8884	1106.72
858	0	18: 6:25	1.9064	1107.58
867	0	18: 7:30	1.9244	1107.58

Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 2  
Field: TKT 22087

[Tuesday: July 2, 1996]  
Page 3

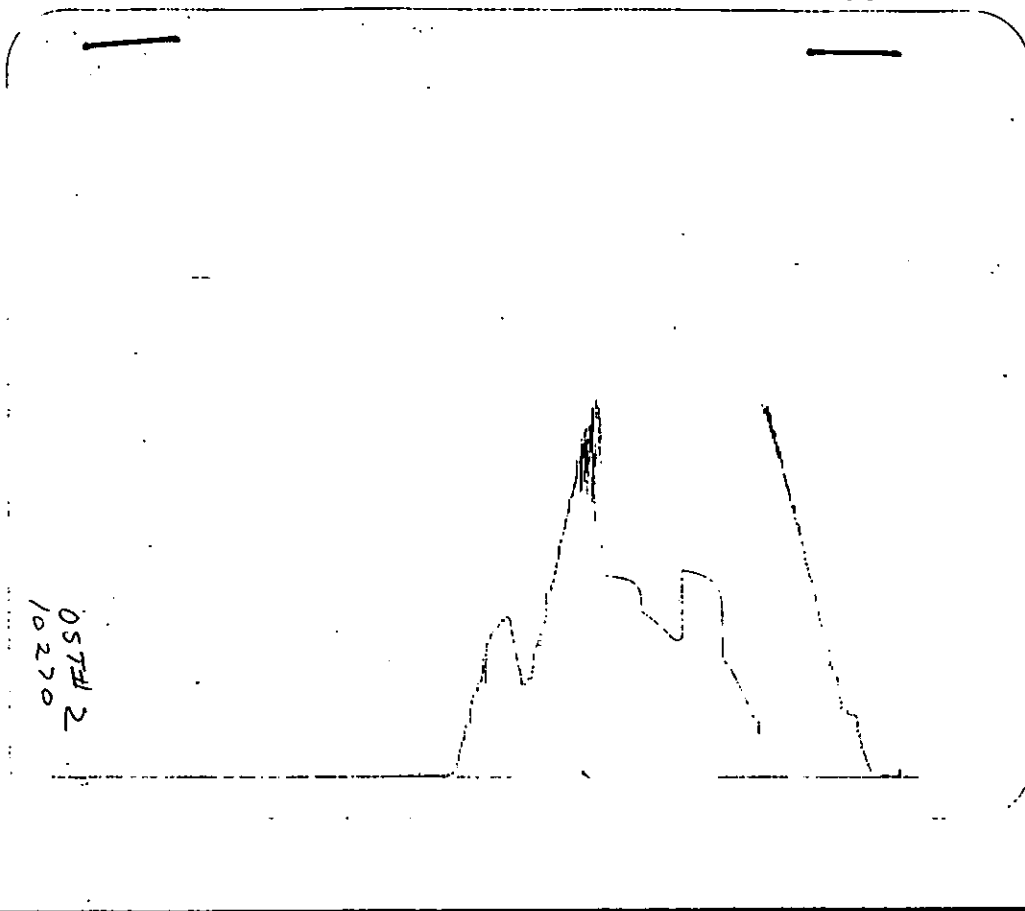
REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
876	0	18: 8:35	1.9424	1108.45

ORIGINAL

WESTERN TESTING CO., INC.

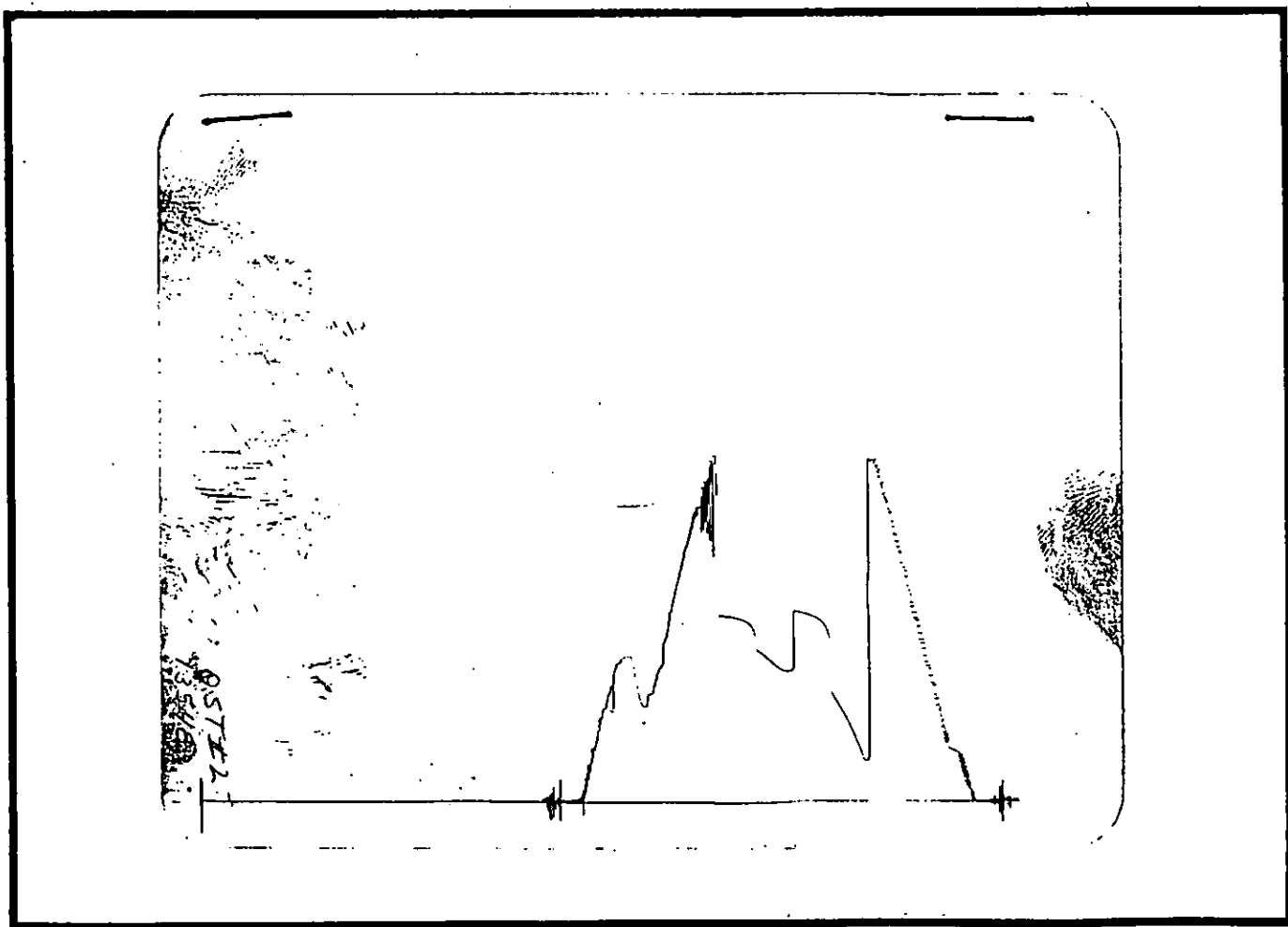


15-109-20627-0000



OSTE 2  
10270

Inside Recorder



OSTE 2  
10270

Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE : 7/3/96  
CUSTOMER : JOHN O FARMER, INC.  
WELL : #1 TEST: 3  
ELEVATION: 3007 KB  
SECTION : 24  
RANGE : 32W COUNTY: LOGAN  
GAUGE SN#: 10270 RANGE : 4150  
TICKET : 22088  
LEASE : DURHAM  
GEOLOGIST: FARMER  
FORMATION: LANSING H  
TOWNSHIP : 11S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4157.00 ft TO: 4190.00 ft TVD: 4190.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 4182.0 ft 4185.0 ft  
TEMPERATURE: 114.0  
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in  
WEIGHT PIPE LENGTH : 506.0 ft I.D.: 2.700 in  
DRILL PIPE LENGTH : 3631.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 33.0 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: 4152.0 ft SIZE: 6.630 in  
PACKER DEPTH: 4157.0 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. : ABERCROMBIE RIG 8  
MUD TYPE : CHEMICAL VISCOSITY : 44.00 cp  
WEIGHT : 9.200 ppg WATER LOSS: 9.600 cc  
CHLORIDES : 1500 ppm  
JARS-MAKE :  
DID WELL FLOW?: NO SERIAL NUMBER:  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A FAIR BLOW  
1/2 TO 3 1/2 INCH BLOW. FINAL FLOW PERIOD FAIR  
BLOW THROUGHOUT - 3 TO 5 1/2 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	240 FT GAS ABOVE FLUID
60.0	100.0	0.0	0.0	0.0	CLEAN OIL GRAVITY 39
40.0	50.0	10.0	0.0	40.0	MUDDY GASSY OIL
30.0	5.0	0.0	0.0	95.0	OIL CUT MUD
120.0	5.0	0.0	65.0	30.0	OIL CUT MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 45000 PPM

RATE INFORMATION

OIL VOLUME:	0.6196 STB	TOTAL FLOW TIME:	105.0000 min.
GAS VOLUME:	0.1590 SCF	AVERAGE OIL RATE:	13.0687 STB/D
MUD VOLUME:	0.5700 STB	AVERAGE WATER RATE:	10.8212 STB/D
WATER VOLUME:	0.5523 STB		
TOTAL FLUID :	1.7420 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2056.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	62.00	83.00
INITIAL SHUT-IN	45.00		1112.00
FINAL FLOW	60.00	124.00	135.00
FINAL SHUT-IN	60.00		1070.00

FINAL HYDROSTATIC PRESSURE: 2004.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2051.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	71.39	86.55
INITIAL SHUT-IN	45.00		1104.26
FINAL FLOW	60.00	120.63	143.10
FINAL SHUT-IN	60.00		1066.65

FINAL HYDROSTATIC PRESSURE: 2027.00

Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 3  
Field: TKT 22088

ORIGINAL  
[Wednesday: July 3, 1996]  
Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	10:40: 2	0.0000	71.39
10	0	10:41: 7	0.0180	68.75
19	0	10:42:12	0.0359	65.25
28	0	10:43:16	0.0539	62.62
37	0	10:44:21	0.0718	62.58
46	0	10:45:26	0.0898	60.81
55	0	10:46:30	0.1078	60.78
64	0	10:47:35	0.1258	59.88
73	0	10:48:40	0.1438	59.85
82	0	10:49:45	0.1617	58.94
91	0	10:50:49	0.1797	58.91
100	0	10:51:54	0.1977	59.74
109	0	10:52:59	0.2157	61.45
118	0	10:54: 4	0.2337	63.15
127	0	10:55: 9	0.2517	65.71
136	0	10:56:13	0.2697	65.68
145	0	10:57:18	0.2877	66.51
154	0	10:58:23	0.3057	68.22
163	0	10:59:28	0.3237	68.18
172	0	11: 0:32	0.3417	68.15
181	0	11: 1:37	0.3597	68.98
190	0	11: 2:42	0.3777	69.81
199	0	11: 3:47	0.3956	69.78
208	0	11: 4:52	0.4137	71.48
217	0	11: 5:56	0.4316	71.45
226	0	11: 7: 1	0.4496	72.28
235	0	11: 8: 6	0.4676	73.12
244	0	11: 9:11	0.4856	73.95
253	0	11:10:15	0.5036	74.78
262	0	11:11:20	0.5216	76.48
271	0	11:12:25	0.5396	77.32
280	0	11:13:30	0.5576	78.15
289	0	11:14:35	0.5756	78.98
298	0	11:15:39	0.5936	79.82
307	0	11:16:44	0.6116	80.65
316	0	11:17:49	0.6296	82.35
325	0	11:18:54	0.6476	84.05
334	0	11:19:58	0.6656	84.89
343	0	11:21: 3	0.6836	84.85
352	0	11:22: 8	0.7016	86.55
END FLOW 1				
START SHUTIN 1				
361	0	11:23:14	0.7198	108.20
369	0	11:24:19	0.7379	320.67
377	0	11:25:24	0.7559	527.06
385	0	11:26:25	0.7731	645.86
393	0	11:27:26	0.7898	723.88
402	0	11:28:32	0.8083	766.35
411	0	11:29:38	0.8266	807.08
420	0	11:30:44	0.8448	824.39
429	0	11:31:49	0.8630	850.38
438	0	11:32:55	0.8812	869.43
447	0	11:34: 0	0.8994	891.08
456	0	11:35: 6	0.9176	907.52

WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC.  
 Well: #1 DURHAM DST 3  
 Field: TKT 22088

[Wednesday: July 3, 1996]  
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
465	0	11:36:11	0.9356	917.90
474	0	11:37:16	0.9538	930.87
483	0	11:38:21	0.9719	942.98
492	0	11:39:26	0.9900	954.22
501	0	11:40:31	1.0080	962.86
510	0	11:41:36	1.0261	972.37
519	0	11:42:42	1.0442	982.74
528	0	11:43:47	1.0623	990.52
537	0	11:44:52	1.0803	999.15
546	0	11:45:57	1.0984	1006.06
555	0	11:47: 2	1.1165	1013.83
564	0	11:48: 7	1.1345	1020.74
573	0	11:49:12	1.1526	1028.51
582	0	11:50:17	1.1706	1033.68
591	0	11:51:22	1.1887	1038.85
600	0	11:52:26	1.2067	1044.89
609	0	11:53:31	1.2247	1050.06
618	0	11:54:36	1.2428	1056.09
627	0	11:55:41	1.2608	1061.27
636	0	11:56:46	1.2788	1065.57
645	0	11:57:51	1.2969	1069.87
654	0	11:58:56	1.3149	1075.04
663	0	12: 0: 1	1.3329	1078.48
672	0	12: 1: 6	1.3510	1082.78
681	0	12: 2:11	1.3690	1087.08
690	0	12: 3:16	1.3870	1091.39
699	0	12: 4:20	1.4050	1094.82
708	0	12: 5:25	1.4231	1098.26
717	0	12: 6:30	1.4411	1101.69
726	0	12: 7:35	1.4591	1104.26
		START FLOW 2		
727	0	12: 9:38	1.4933	120.63
736	0	12:10:43	1.5112	120.60
745	0	12:11:48	1.5292	118.83
754	0	12:12:52	1.5472	117.06
763	0	12:13:57	1.5652	116.16
772	0	12:15: 2	1.5831	116.13
781	0	12:16: 6	1.6011	115.23
790	0	12:17:11	1.6191	115.19
799	0	12:18:16	1.6371	115.16
808	0	12:19:21	1.6551	115.99
817	0	12:20:25	1.6731	115.96
826	0	12:21:30	1.6911	115.92
835	0	12:22:35	1.7090	116.76
844	0	12:23:40	1.7270	116.72
853	0	12:24:44	1.7450	117.56
862	0	12:25:49	1.7630	117.52
871	0	12:26:54	1.7810	118.36
880	0	12:27:59	1.7990	119.19
889	0	12:29: 3	1.8170	119.16
898	0	12:30: 8	1.8350	119.99
907	0	12:31:13	1.8530	119.96
916	0	12:32:18	1.8710	120.79
925	0	12:33:23	1.8889	120.76
934	0	12:34:27	1.9069	120.72

WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 3  
Field: TKT 22088

[Wednesday: July 3, 1996]  
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
943	0	12:35:32	1.9249	121.56
952	0	12:36:37	1.9429	122.39
961	0	12:37:42	1.9609	122.36
970	0	12:38:46	1.9789	123.19
979	0	12:39:51	1.9969	123.16
988	0	12:40:56	2.0149	124.86
997	0	12:42: 1	2.0329	125.69
1006	0	12:43: 5	2.0509	125.66
1015	0	12:44:10	2.0688	126.49
1024	0	12:45:15	2.0868	126.46
1033	0	12:46:20	2.1048	127.29
1042	0	12:47:24	2.1228	128.13
1051	0	12:48:29	2.1408	128.96
1060	0	12:49:34	2.1588	128.93
1069	0	12:50:39	2.1768	129.76
1078	0	12:51:44	2.1948	131.46
1087	0	12:52:48	2.2128	132.29
1096	0	12:53:53	2.2308	132.26
1105	0	12:54:58	2.2488	133.09
1114	0	12:56: 3	2.2668	133.93
1123	0	12:57: 7	2.2847	134.76
1132	0	12:58:12	2.3027	134.73
1141	0	12:59:17	2.3207	136.43
1150	0	13: 0:22	2.3387	138.13
1159	0	13: 1:27	2.3567	138.10
1168	0	13: 2:31	2.3747	138.93
1177	0	13: 3:36	2.3927	138.90
1186	0	13: 4:41	2.4107	139.73
1195	0	13: 5:46	2.4287	140.56
1204	0	13: 6:50	2.4467	140.53
1213	0	13: 7:55	2.4647	143.10
		END FLOW 2		
		START SHUTIN 2		
1217	0	13: 8:24	2.4727	149.15
1222	0	13: 9: 2	2.4832	201.17
1230	0	13:10: 6	2.5011	391.96
1238	0	13:11: 9	2.5186	539.37
1246	0	13:12:10	2.5354	620.00
1255	0	13:13:16	2.5539	677.21
1264	0	13:14:23	2.5723	717.94
1273	0	13:15:28	2.5906	746.53
1282	0	13:16:34	2.6088	769.05
1291	0	13:17:40	2.6270	789.83
1300	0	13:18:45	2.6451	806.27
1309	0	13:19:50	2.6633	823.59
1318	0	13:20:55	2.6814	835.70
1327	0	13:22: 1	2.6995	847.81
1336	0	13:23: 6	2.7176	859.05
1345	0	13:24:11	2.7357	870.29
1354	0	13:25:16	2.7538	878.93
1363	0	13:26:21	2.7719	888.43
1372	0	13:27:26	2.7899	897.94
1381	0	13:28:31	2.8080	905.71
1390	0	13:29:36	2.8260	911.75
1396	0	13:30:41	2.8441	921.26

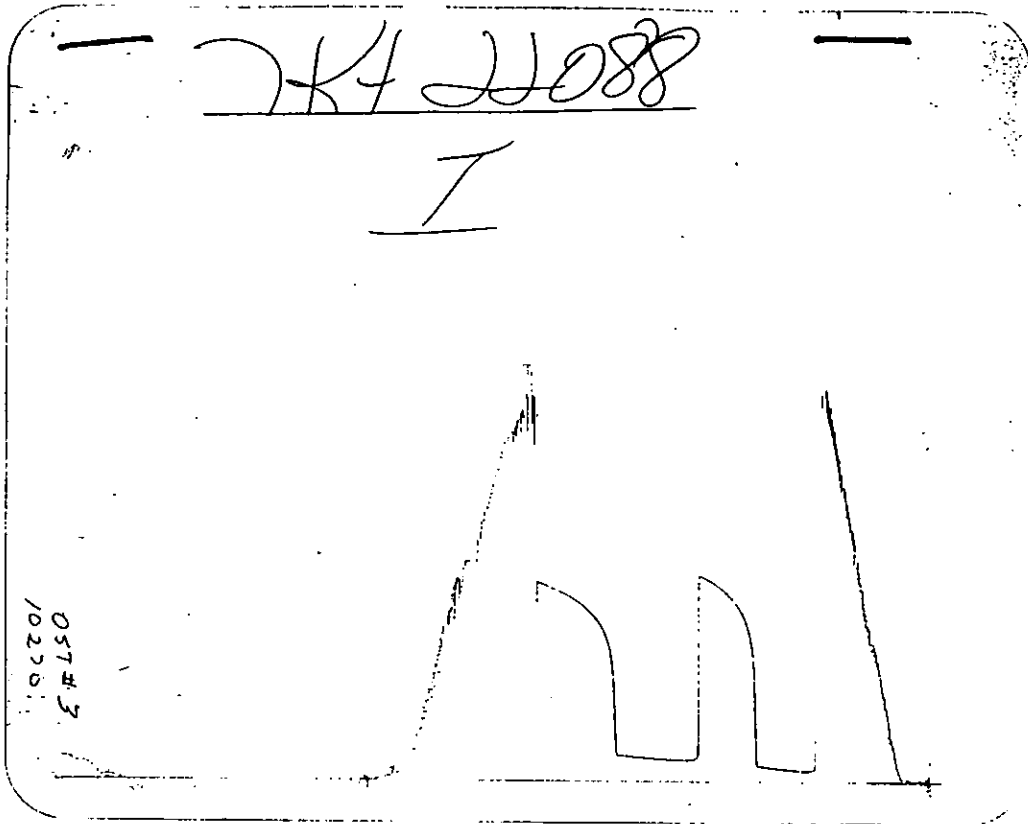
WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 3  
Field: TKT 22088

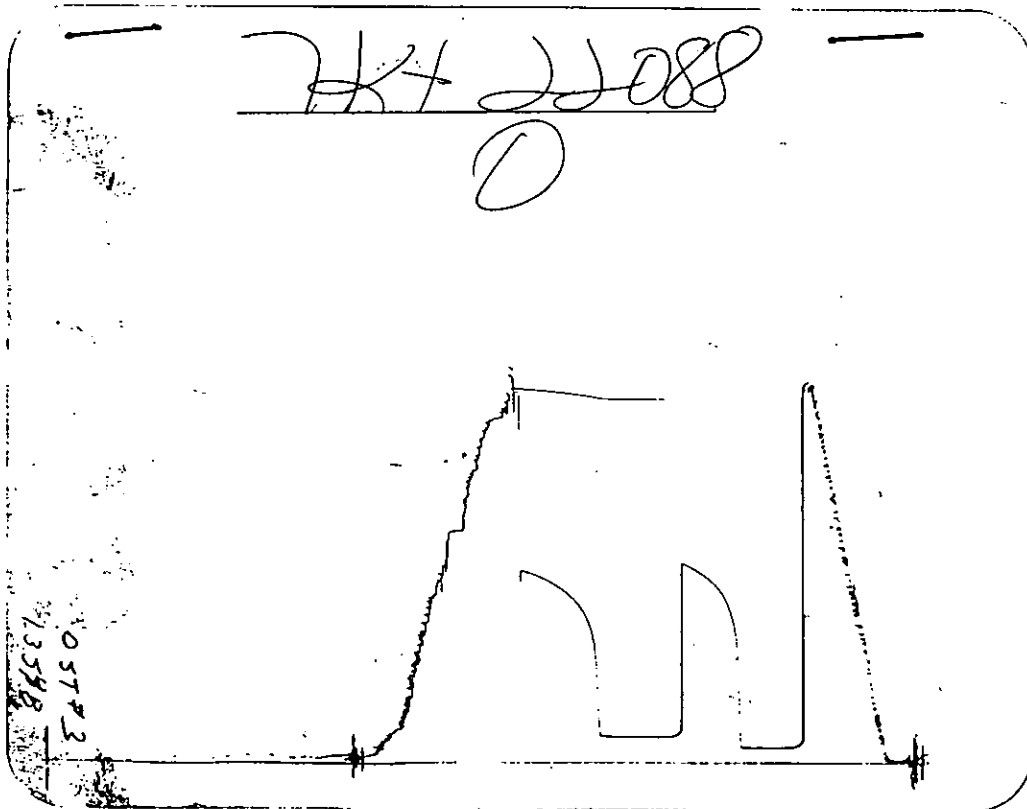
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1405	0	13:31:46	2.8622	927.30
1414	0	13:32:51	2.8802	935.07
1423	0	13:33:56	2.8983	941.11
1432	0	13:35: 1	2.9163	947.14
1441	0	13:36: 6	2.9344	952.31
1450	0	13:37:11	2.9524	958.35
1459	0	13:38:16	2.9704	964.39
1468	0	13:39:21	2.9885	969.56
1477	0	13:40:26	3.0065	974.73
1486	0	13:41:31	3.0245	979.90
1495	0	13:42:36	3.0426	985.07
1504	0	13:43:41	3.0606	989.37
1513	0	13:44:45	3.0786	993.68
1522	0	13:45:50	3.0967	997.98
1531	0	13:46:55	3.1147	1001.41
1540	0	13:48: 0	3.1327	1005.72
1549	0	13:49: 5	3.1507	1008.28
1558	0	13:50:10	3.1688	1012.59
1567	0	13:51:15	3.1868	1016.89
1576	0	13:52:20	3.2048	1019.46
1581	0	13:53:32	3.2248	1022.89
1585	0	13:54:58	3.2488	1026.32
1594	0	13:56: 3	3.2668	1029.75
1603	0	13:57: 8	3.2849	1034.05
1612	0	13:58:13	3.3029	1035.75
1621	0	14: 0: 8	3.3349	1040.90
1630	0	14: 1:13	3.3529	1046.07
1639	0	14: 2:18	3.3710	1050.37
1648	0	14: 3:23	3.3890	1053.81
1657	0	14: 4:28	3.4070	1056.38
1666	0	14: 5:32	3.4250	1058.94
1675	0	14: 6:37	3.4430	1061.51
1684	0	14: 7:42	3.4610	1064.08
1693	0	14: 8:47	3.4790	1066.65

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder



ORIGINAL

IS:10920629.0000

DST REPORT

GENERAL INFORMATION

DATE	: 7/4/96	TICKET	: 22089
CUSTOMER	: JOHN O FARMER, INC.	LEASE	: DURHAM
WELL	: #1	TEST:	: 4
ELEVATION:	3007 KB	GEOLOGIST:	FARMER
SECTION	: 24	FORMATION:	LANSING I & J
RANGE	: 32W	TOWNSHIP	: 11S
COUNTY:	LOGAN	STATE	: KS
Gauge SN#:	10270	RANGE	: 4150
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4210.00 ft	TO:	4245.00 ft	TVD:	4245.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4237.0 ft		4240.0 ft		
TEMPERATURE:	115.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in		
WEIGHT PIPE LENGTH :	506.0 ft	I.D.:	2.700 in		
DRILL PIPE LENGTH :	3684.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	35.0 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:	4205.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	4210.0 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. :	ABERCROMBIE RIG 8	VISCOSITY :	45.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.100 ppg	SERIAL NUMBER:	
CHLORIDES :	1500 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW  
IN 4 MINUTES. FINAL FLOW PERIOD WEAK BUILDING TO  
A STRONG BLOW IN 15 MINUTES.

ORIGINAL

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
180.0	1.0	0.0	55.0	44.0	SL OIL CUT MUDDY WATER
900.0	0.0	0.0	100.0	0.0	WATER W/OIL SCUM THRUOUT
0.0	0.0	0.0	0.0	0.0	CHLORIDES 44000 PPM

RATE INFORMATION

OIL VOLUME:	0.0252 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	1.0820 STB/D
MUD VOLUME:	1.1109 STB	AVERAGE WATER RATE:	278.1388 STB/D
WATER VOLUME:	10.4981 STB		
TOTAL FLUID :	11.6342 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2108.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	135.00	343.00
INITIAL SHUT-IN	30.00		1070.00
FINAL FLOW	30.00	437.00	531.00
FINAL SHUT-IN	30.00		997.00

FINAL HYDROSTATIC PRESSURE: 2108.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2105.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	152.65	365.15
INITIAL SHUT-IN	30.00		1078.09
FINAL FLOW	30.00	454.48	542.08
FINAL SHUT-IN	30.00		1020.85

FINAL HYDROSTATIC PRESSURE: 2102.00

Company: JOHN O FARMER INC.  
 Well: #1 DURHAM DST 4  
 Field: TKT 22089

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 [Thursday: July 4, 1996]  
 Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	2:40:36	0.0000	152.65
5	0	2:41: 5	0.0080	155.25
14	0	2:42: 9	0.0260	153.52
23	0	2:43:14	0.0440	161.32
32	0	2:44:19	0.0619	173.47
41	0	2:45:24	0.0799	189.08
50	0	2:46:28	0.0979	202.09
59	0	2:47:33	0.1159	218.57
67	0	2:48:38	0.1339	228.98
75	0	2:49:43	0.1519	244.59
84	0	2:50:47	0.1699	256.73
93	0	2:51:52	0.1878	264.54
99	0	2:53:11	0.2098	274.08
108	0	2:54:16	0.2278	279.28
110	0	2:56:47	0.2698	298.36
119	0	2:57:52	0.2878	307.04
126	0	2:59:47	0.3197	320.05
135	0	3: 0:52	0.3377	326.98
144	0	3: 1:57	0.3557	333.06
150	0	3: 3: 1	0.3737	339.13
159	0	3: 4: 6	0.3917	346.93
168	0	3: 5:11	0.4097	353.00
177	0	3: 6:16	0.4277	359.94
186	0	3: 7:20	0.4456	365.15
END FLOW 1				
START SHUTIN 1				
191	0	3: 7:56	0.4556	511.73
195	0	3: 8:25	0.4636	706.88
204	0	3: 9:30	0.4816	781.47
213	0	3:10:34	0.4996	816.16
222	0	3:11:39	0.5176	849.12
231	0	3:12:44	0.5356	873.40
240	0	3:13:49	0.5535	891.62
248	0	3:15:15	0.5775	912.43
254	0	3:16:20	0.5955	928.05
263	0	3:17:25	0.6135	941.06
272	0	3:18:29	0.6315	953.20
281	0	3:19:34	0.6495	962.74
289	0	3:20:39	0.6675	973.15
298	0	3:21:44	0.6854	982.69
304	0	3:22:48	0.7034	993.10
313	0	3:23:53	0.7214	1001.77
322	0	3:24:58	0.7394	1008.71
325	0	3:29:31	0.8153	1038.20
334	0	3:30:36	0.8333	1044.27
336	0	3:31:41	0.8513	1050.34
345	0	3:32:45	0.8693	1056.41
354	0	3:33:50	0.8873	1059.88
358	0	3:36:21	0.9292	1072.02
359	0	3:38:52	0.9712	1078.09
END SHUTIN 1				
START FLOW 2				
362	0	3:40: 4	0.9912	454.48
371	0	3:41: 9	1.0092	451.01

WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 4  
Field: TKT 22089

[Thursday: July 4, 1996]  
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
380	0	3:42:14	1.0272	447.54
389	0	3:43:18	1.0451	445.81
396	0	3:44:23	1.0631	445.81
405	0	3:45:28	1.0811	447.54
414	0	3:46:33	1.0991	449.28
423	0	3:47:37	1.1171	450.15
432	0	3:48:42	1.1351	453.62
441	0	3:49:47	1.1530	457.95
450	0	3:50:52	1.1710	462.29
459	0	3:51:56	1.1890	467.49
468	0	3:53: 1	1.2070	472.70
477	0	3:54: 6	1.2250	477.03
486	0	3:55:11	1.2430	483.10
495	0	3:56:15	1.2609	488.31
504	0	3:57:20	1.2789	492.65
513	0	3:58:25	1.2969	498.72
521	0	3:59:30	1.3149	503.92
530	0	4: 0:34	1.3329	508.26
539	0	4: 1:39	1.3509	512.59
548	0	4: 2:44	1.3689	518.67
557	0	4: 3:49	1.3868	523.87
566	0	4: 4:53	1.4048	527.34
575	0	4: 5:58	1.4228	533.41
584	0	4: 7: 3	1.4408	537.75
593	0	4: 8: 8	1.4588	542.08
		END FLOW 2		
		START SHUTIN 2		
600	0	4: 8:58	1.4728	612.34
602	0	4: 9:12	1.4768	634.02
611	0	4:10:17	1.4948	769.32
620	0	4:11:22	1.5127	815.29
629	0	4:12:27	1.5307	836.98
638	0	4:13:31	1.5487	855.19
647	0	4:14:36	1.5667	869.93
656	0	4:15:41	1.5847	882.94
665	0	4:16:46	1.6027	895.95
674	0	4:17:50	1.6207	906.36
683	0	4:18:55	1.6386	915.04
692	0	4:20: 0	1.6566	924.58
701	0	4:21: 5	1.6746	932.38
710	0	4:22: 9	1.6926	941.06
719	0	4:23:14	1.7106	948.86
728	0	4:24:19	1.7286	955.80
737	0	4:25:24	1.7465	961.87
746	0	4:26:28	1.7645	968.81
755	0	4:27:33	1.7825	974.88
764	0	4:28:38	1.8005	980.95
773	0	4:29:43	1.8185	986.16
782	0	4:30:47	1.8365	990.49
788	0	4:31:59	1.8565	995.70
797	0	4:33: 4	1.8744	1000.03
806	0	4:34: 9	1.8924	1005.24
815	0	4:35:13	1.9104	1010.44
824	0	4:36:18	1.9284	1013.04
833	0	4:37:23	1.9464	1017.38

WESTERN TESTING CO., INC.

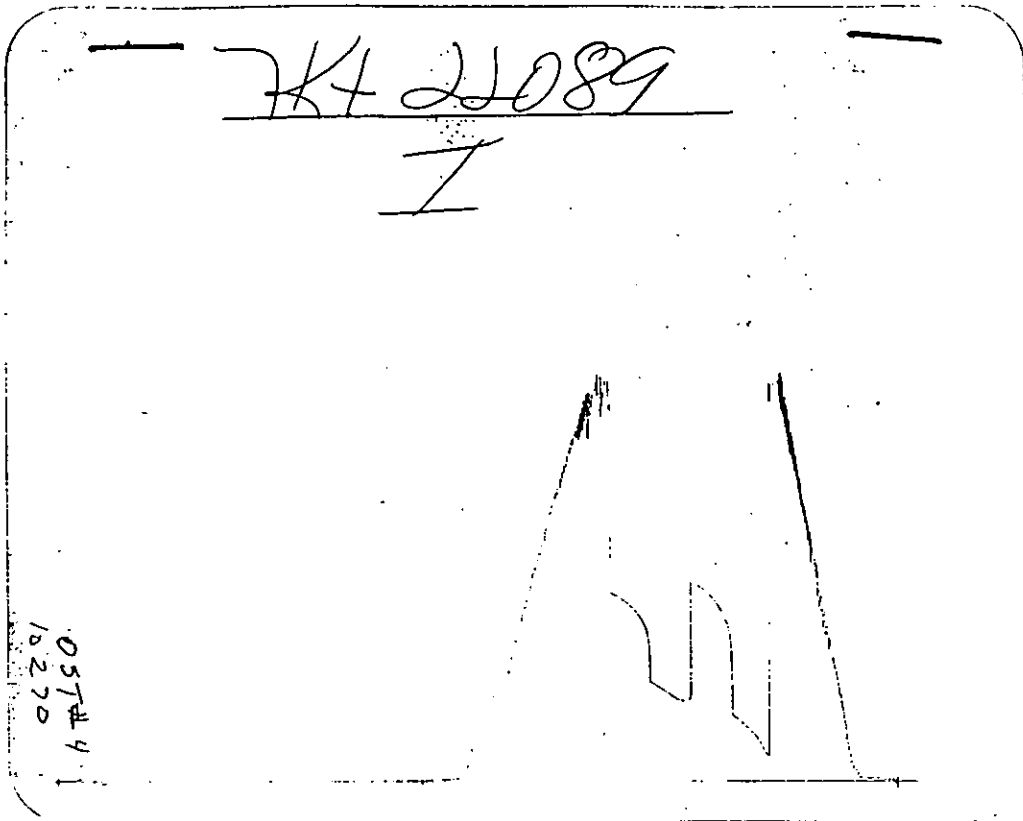
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Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 4  
Field: TKT 22089

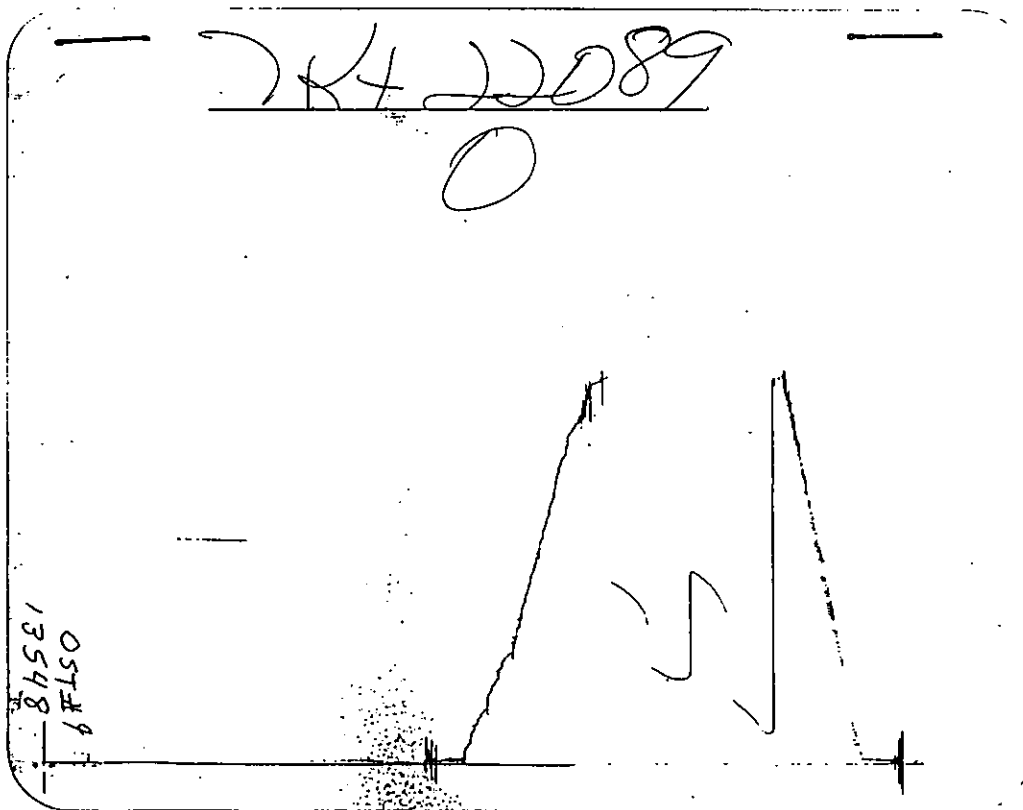
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
842	0	4:38:28	1.9644	1020.85

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

15109-20629-0000

## DST REPORT

## GENERAL INFORMATION

DATE : 7/4/96	TICKET : 22090
CUSTOMER : JOHN O FARMER, INC.	LEASE : DURHAM
WELL : #1 TEST: 5	GEOLOGIST: FARMER
ELEVATION: 3007 KB	FORMATION: LANSING K
SECTION : 24	TOWNSHIP : 11S
RANGE : 32W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

## WELL INFORMATION

PERFORATION INTERVAL FROM: 4241.00 ft	TO: 4281.00 ft	TVD: 4281.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4244.0 ft	4247.0 ft	
TEMPERATURE: 114.0		
DRILL COLLAR LENGTH: 0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH : 506.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH : 3715.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 40.0 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: 4236.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4241.0 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. : ABERCROMBIE RIG 8	VISCOSITY : 45.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 8.400 cc
WEIGHT : 9.200 ppg	
CHLORIDES : 2000 ppm	SERIAL NUMBER:
JARS-MAKE :	REVERSED OUT?: NO
DID WELL FLOW?: NO	

## COMMENTS

## Comment

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

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
70.0	1.0	0.0	0.0	99.0	SL OIL CUT MUD
120.0	0.0	0.0	75.0	25.0	MUDDY WATER W/SHOW OIL
0.0	0.0	0.0	0.0	0.0	CHLORIDES 34000 PPM

RATE INFORMATION

OIL VOLUME:	0.0050 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	7.9309 STB/D
MUD VOLUME:	0.7032 STB	AVERAGE WATER RATE:	13.5959 STB/D
WATER VOLUME:	0.6373 STB		
TOTAL FLUID :	1.3454 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2108.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	52.00	62.00
INITIAL SHUT-IN	45.00		863.00
FINAL FLOW	45.00	104.00	114.00
FINAL SHUT-IN	45.00		800.00

FINAL HYDROSTATIC PRESSURE: 2097.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2103.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	80.34	81.39
INITIAL SHUT-IN	45.00		865.62
FINAL FLOW	45.00	112.58	127.55
FINAL SHUT-IN	45.00		810.30

FINAL HYDROSTATIC PRESSURE: 2091.00



# ORIGINAL

Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 5  
Field: TKT 22090

[Thursday: July 4, 1996]  
Page 1

REC #	DAY	REAL TIME	DT (HRS)	Col-2
-----				
START FLOW 1				
1	0	0: 0:25	0.0000	80.34
6	0	0: 1: 1	0.0100	80.32
9	0	0: 6:31	0.1017	58.44
18	0	0: 7:35	0.1197	59.27
27	0	0: 8:40	0.1376	58.36
36	0	0: 9:45	0.1556	58.32
40	0	0:35:47	0.5894	72.14
49	0	0:43:56	0.7254	81.39
END FLOW 1				
START SHUTIN 1				
56	0	0:45:31	0.7518	114.30
62	0	0:46:51	0.7740	134.20
64	0	0:47:56	0.7922	152.37
71	0	0:49:31	0.8184	174.00
73	0	0:51:13	0.8467	205.17
77	0	0:52:26	0.8670	228.54
80	0	0:53:31	0.8852	250.19
88	0	0:54:37	0.9035	277.90
95	0	0:55:43	0.9218	310.82
103	0	0:56:49	0.9401	336.80
112	0	0:57:56	0.9586	378.40
121	0	0:59: 1	0.9769	407.85
130	0	1: 0: 8	0.9953	445.97
139	0	1: 1:14	1.0136	476.29
148	0	1: 2:20	1.0321	514.41
157	0	1: 3:26	1.0504	543.86
166	0	1: 4:32	1.0687	568.98
175	0	1: 5:38	1.0870	597.56
184	0	1: 6:44	1.1053	626.14
193	0	1: 7:49	1.1235	644.32
202	0	1: 8:55	1.1417	665.96
211	0	1:10: 0	1.1599	685.01
220	0	1:11: 6	1.1781	702.31
229	0	1:12:11	1.1962	714.42
238	0	1:13:16	1.2143	729.99
247	0	1:14:22	1.2325	744.70
256	0	1:15:27	1.2506	758.54
265	0	1:16:32	1.2688	771.51
274	0	1:17:37	1.2869	781.88
283	0	1:18:43	1.3050	792.25
292	0	1:19:48	1.3231	803.49
301	0	1:20:53	1.3412	812.99
310	0	1:21:58	1.3593	821.62
319	0	1:23: 3	1.3774	831.12
328	0	1:24: 8	1.3954	837.16
334	0	1:28:43	1.4717	865.62
END SHUTIN 1				
START FLOW 2				
336	0	1:33:57	1.5591	112.58
345	0	1:35: 2	1.5771	111.67
351	0	1:36:28	1.6010	110.75
360	0	1:37:33	1.6190	110.72
369	0	1:38:38	1.6370	110.68

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WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC.  
 Well: #1 DURHAM DST 5  
 Field: TKT 22090

[Thursday: July 4, 1996]  
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	Col-2
378	0	1:39:43	1.6550	109.77
384	0	1:40:47	1.6730	108.87
391	0	1:43:26	1.7169	109.64
400	0	1:44:30	1.7349	111.34
408	0	1:45:35	1.7529	109.56
412	0	1:47:37	1.7869	110.36
421	0	1:48:42	1.8049	112.05
430	0	1:49:47	1.8229	112.02
439	0	1:50:52	1.8408	111.98
448	0	1:51:56	1.8588	111.94
457	0	1:53: 8	1.8788	111.90
466	0	1:54:13	1.8968	112.73
475	0	1:55:18	1.9148	112.69
484	0	1:56:51	1.9408	113.50
493	0	1:57:56	1.9588	114.33
501	0	1:59: 1	1.9768	115.16
510	0	2: 0: 6	1.9948	115.12
519	0	2: 1:11	2.0127	115.95
528	0	2: 2:15	2.0307	116.78
537	0	2: 3:20	2.0487	117.61
546	0	2: 4:25	2.0667	117.57
555	0	2: 5:30	2.0847	118.40
564	0	2: 6:34	2.1027	117.49
573	0	2: 7:39	2.1207	119.19
582	0	2: 8:44	2.1387	119.15
591	0	2: 9:49	2.1567	120.85
600	0	2:10:54	2.1747	121.67
609	0	2:11:58	2.1927	121.64
618	0	2:13: 3	2.2106	121.60
627	0	2:14: 8	2.2286	122.43
636	0	2:15:13	2.2466	123.26
645	0	2:16:17	2.2647	127.55
		END FLOW 2		
		START SHUTIN 2		
646	0	2:16:25	2.2667	130.15
654	0	2:17:23	2.2829	146.60
663	0	2:18:29	2.3011	166.51
672	0	2:19:34	2.3193	186.42
681	0	2:20:40	2.3375	205.46
690	0	2:21:45	2.3557	227.10
699	0	2:22:51	2.3740	248.75
708	0	2:23:57	2.3923	277.33
717	0	2:25: 3	2.4105	303.31
726	0	2:26: 9	2.4288	331.90
735	0	2:27:15	2.4472	364.82
744	0	2:28:21	2.4655	396.87
753	0	2:29:27	2.4839	425.45
762	0	2:30:32	2.5021	447.97
771	0	2:31:38	2.5204	472.21
780	0	2:32:44	2.5386	497.33
789	0	2:33:49	2.5568	518.10
798	0	2:34:55	2.5751	542.35
807	0	2:36: 1	2.5933	562.26
816	0	2:37: 6	2.6115	581.30
825	0	2:38:12	2.6297	596.88

WESTERN TESTING CO., INC.

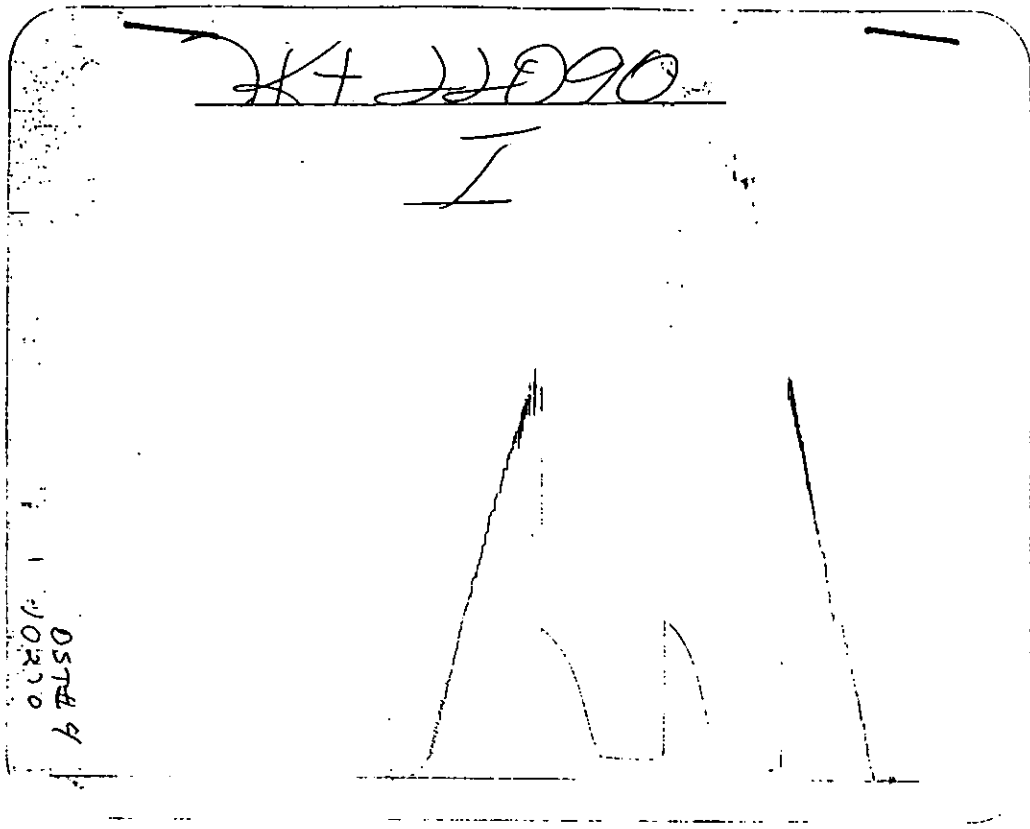
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Company: JOHN O FARMER INC.  
Well: #1 DURHAM DST 5  
Field: TKT 22090

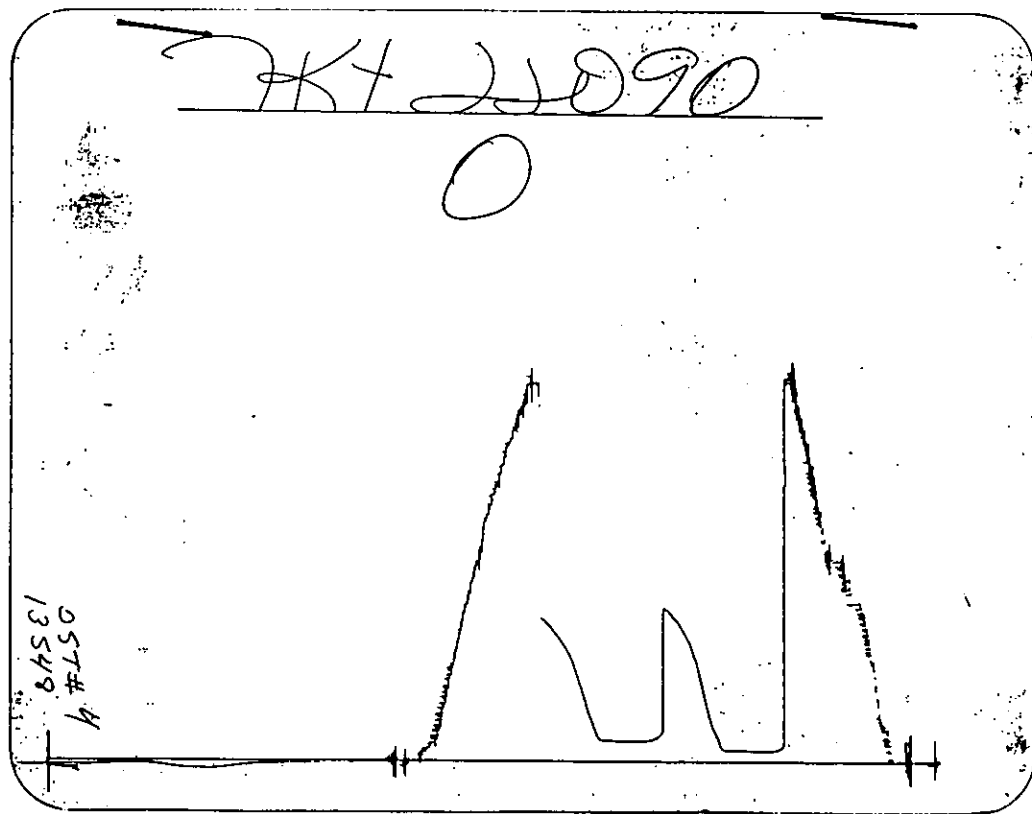
[Thursday: July 4, 1996]  
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REC #	DAY	REAL TIME	DT (HRS)	Col-2
834	0	2:39:17	2.6479	615.05
843	0	2:40:22	2.6660	628.89
852	0	2:41:28	2.6842	643.60
861	0	2:42:33	2.7023	657.44
870	0	2:43:38	2.7204	670.41
879	0	2:44:44	2.7386	683.38
888	0	2:45:49	2.7567	695.48
897	0	2:46:54	2.7748	704.12
906	0	2:47:59	2.7929	714.49
915	0	2:49: 4	2.8110	723.99
924	0	2:50: 9	2.8291	734.36
933	0	2:51:14	2.8472	742.13
942	0	2:52:20	2.8652	751.63
951	0	2:53:25	2.8833	762.00
960	0	2:54:30	2.9014	768.90
969	0	2:55:35	2.9195	775.80
978	0	2:56:40	2.9376	786.17
987	0	2:57:45	2.9556	793.07
996	0	2:58:50	2.9737	799.10
1005	0	2:59:55	2.9917	805.14
1014	0	3: 1: 0	3.0098	810.30

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

15:109-70629-0000

DST REPORT

GENERAL INFORMATION

DATE : 7/5/96	TICKET : 22091
CUSTOMER : JOHN O FARMER, INC.	LEASE : DURHAM
WELL : #1 TEST: 6	GEOLOGIST: FARMER
ELEVATION: 3007 KB	FORMATION: LANSING L
SECTION : 24	TOWNSHIP : 11S
RANGE : 32W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4277.00 ft	TO: 4300.00 ft	TVD: 4300.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4292.0 ft	4295.0 ft	
TEMPERATURE: 115.0		
DRILL COLLAR LENGTH: 0.0 ft	I.D.: 0.000 in	
WEIGHT PIPE LENGTH : 506.0 ft	I.D.: 2.700 in	
DRILL PIPE LENGTH : 3751.0 ft	I.D.: 3.800 in	
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE : 5.500 in	
ANCHOR LENGTH : 23.0 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: 4272.0 ft	SIZE: 6.630 in	
PACKER DEPTH: 4277.0 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. : ABERCROMBIE RIG 8	VISCOSITY : 46.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 8.400 cc
WEIGHT : 9.100 ppg	SERIAL NUMBER:
CHLORIDES : 2000 ppm	REVERSED OUT?: YES
JARS-MAKE :	
DID WELL FLOW?: NO	

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW IN 5 MINUTES. FINAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW IN 10 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	0.0	0.0	70.0	30.0	MUDDY WATER W/SCUM OF OIL WATER CHLORIDES 64000 PPM
1200.0	0.0	0.0	100.0	0.0	
0.0	0.0	0.0	0.0	0.0	

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME: 90.0000 min. AVERAGE OIL RATE: 0.0000 STB/D AVERAGE WATER RATE: 226.5431 STB/D
GAS VOLUME:	0.0000 SCF	
MUD VOLUME:	0.2525 STB	
WATER VOLUME:	13.9065 STB	
TOTAL FLUID :	14.1589 STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2108.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	72.00	406.00
INITIAL SHUT-IN	45.00		1080.00
FINAL FLOW	45.00	458.00	665.00
FINAL SHUT-IN	60.00		1049.00

FINAL HYDROSTATIC PRESSURE: 2108.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2127.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	78.93	402.44
INITIAL SHUT-IN	45.00		1082.43
FINAL FLOW	45.00	470.09	671.32
FINAL SHUT-IN	60.00		1050.34

FINAL HYDROSTATIC PRESSURE: 2100.00

Company: JOHN O FARMER INC  
Well: #1 DURHAM DST 6  
Field: TKT 22091

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[Friday: July 5, 1996]  
Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
-----				
START FLOW 1				
1	0	4:40:0	0.0000	78.93
10	0	4:41:5	0.0180	78.93
19	0	4:42:9	0.0360	91.07
28	0	4:43:14	0.0540	108.42
37	0	4:44:19	0.0719	125.76
46	0	4:45:24	0.0899	141.38
55	0	4:46:28	0.1079	156.12
64	0	4:47:33	0.1259	174.33
73	0	4:48:38	0.1439	189.95
82	0	4:49:43	0.1619	207.29
91	0	4:50:47	0.1798	222.04
100	0	4:51:52	0.1978	237.65
109	0	4:52:57	0.2158	249.79
118	0	4:54:2	0.2338	259.33
127	0	4:55:6	0.2518	268.87
136	0	4:56:11	0.2698	278.41
145	0	4:57:16	0.2878	286.22
154	0	4:58:21	0.3058	294.03
163	0	4:59:25	0.3237	303.57
172	0	5:0:30	0.3417	309.64
181	0	5:1:35	0.3597	316.58
190	0	5:2:40	0.3777	325.25
199	0	5:3:44	0.3957	333.06
208	0	5:4:49	0.4137	340.86
217	0	5:5:54	0.4316	348.67
226	0	5:6:59	0.4496	356.47
235	0	5:8:3	0.4676	364.28
244	0	5:9:8	0.4856	372.09
253	0	5:10:13	0.5036	379.89
262	0	5:11:18	0.5216	386.83
271	0	5:12:22	0.5396	394.64
280	0	5:13:27	0.5575	402.44
END FLOW 1				
START SHUTIN 1				
289	0	5:14:32	0.5755	611.47
298	0	5:15:37	0.5935	924.58
307	0	5:16:41	0.6115	947.13
316	0	5:17:46	0.6295	962.74
325	0	5:18:51	0.6475	973.15
334	0	5:19:56	0.6654	982.69
343	0	5:21:0	0.6834	990.49
352	0	5:22:5	0.7014	997.43
361	0	5:23:10	0.7194	1003.50
370	0	5:24:15	0.7374	1010.44
379	0	5:25:19	0.7554	1014.78
388	0	5:26:24	0.7734	1019.98
397	0	5:27:29	0.7913	1023.45
406	0	5:28:34	0.8093	1026.92
415	0	5:29:38	0.8273	1031.26
424	0	5:30:43	0.8453	1034.73
433	0	5:31:48	0.8633	1037.33
442	0	5:32:53	0.8813	1041.67
451	0	5:33:57	0.8992	1044.27
460	0	5:35:2	0.9172	1047.74

WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC  
 Well: #1 DURHAM DST 6  
 Field: TKT 22091

[Friday: July 5, 1996]  
 Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
469	0	5:36: 7	0.9352	1050.34
478	0	5:37:12	0.9532	1052.94
487	0	5:38:16	0.9712	1055.54
496	0	5:39:21	0.9892	1058.15
505	0	5:40:26	1.0072	1060.75
514	0	5:41:31	1.0251	1063.35
523	0	5:42:35	1.0431	1063.35
532	0	5:43:40	1.0611	1065.08
541	0	5:44:45	1.0791	1066.82
550	0	5:45:50	1.0971	1068.55
559	0	5:46:54	1.1151	1069.42
568	0	5:47:59	1.1331	1071.16
577	0	5:49: 4	1.1510	1072.02
586	0	5:50: 9	1.1690	1072.89
595	0	5:51:13	1.1870	1074.63
604	0	5:52:18	1.2050	1075.49
613	0	5:53:23	1.2230	1077.23
622	0	5:54:27	1.2410	1078.09
631	0	5:55:32	1.2589	1078.96
640	0	5:56:37	1.2769	1080.70
649	0	5:57:42	1.2949	1081.56
658	0	5:58:46	1.3129	1082.43
667	0	5:59:51	1.3309	1082.43
676	0	6: 0:56	1.3489	1082.43
END SHUTIN 1				
START FLOW 1				
677	0	6: 1: 3	1.3509	470.09
685	0	6: 2: 1	1.3669	466.63
694	0	6: 3: 5	1.3849	465.76
703	0	6: 4:10	1.4028	466.63
712	0	6: 5:15	1.4208	468.36
721	0	6: 6:20	1.4388	470.96
730	0	6: 7:24	1.4568	476.17
739	0	6: 8:29	1.4748	482.24
748	0	6: 9:34	1.4928	488.31
757	0	6:10:39	1.5107	495.25
766	0	6:11:43	1.5287	502.19
775	0	6:12:48	1.5467	509.99
784	0	6:13:53	1.5647	516.06
793	0	6:14:58	1.5827	523.00
802	0	6:16: 2	1.6007	529.94
811	0	6:17: 7	1.6186	536.01
820	0	6:18:12	1.6366	542.08
829	0	6:19:17	1.6546	549.02
838	0	6:20:21	1.6726	555.96
847	0	6:21:26	1.6906	562.90
856	0	6:22:31	1.7086	568.97
865	0	6:23:36	1.7266	575.91
874	0	6:24:40	1.7445	582.85
883	0	6:25:45	1.7625	588.92
892	0	6:26:50	1.7805	594.99
901	0	6:27:55	1.7985	600.19
910	0	6:28:59	1.8165	605.40
919	0	6:30: 4	1.8345	610.60
928	0	6:31: 9	1.8525	616.67

WESTERN TESTING CO., INC.



Company: JOHN O FARMER INC  
 Well: #1 DURHAM DST 6  
 Field: TKT 22091

[Friday: July 5, 1996]  
 Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
937	0	6:32:14	1.8704	620.14
946	0	6:33:18	1.8884	625.35
955	0	6:34:23	1.9064	629.68
964	0	6:35:28	1.9244	633.15
973	0	6:36:33	1.9424	636.62
982	0	6:37:37	1.9604	640.96
991	0	6:38:42	1.9784	646.16
1000	0	6:39:47	1.9963	651.37
1009	0	6:40:52	2.0143	655.70
1018	0	6:41:56	2.0323	661.77
1027	0	6:43: 1	2.0503	666.98
1036	0	6:44: 6	2.0683	671.32
END FLOW 2				
START SHUTIN 2				
1044	0	6:45: 3	2.0843	876.01
1045	0	6:45:11	2.0863	880.34
1054	0	6:46:15	2.1042	918.51
1063	0	6:47:20	2.1222	933.25
1072	0	6:48:25	2.1402	942.79
1081	0	6:49:30	2.1582	952.33
1090	0	6:50:34	2.1762	958.40
1099	0	6:51:39	2.1942	963.61
1108	0	6:52:44	2.2122	967.94
1117	0	6:53:49	2.2301	973.15
1126	0	6:54:53	2.2481	976.62
1135	0	6:55:58	2.2661	980.95
1144	0	6:57: 3	2.2841	985.29
1153	0	6:58: 7	2.3021	987.89
1162	0	6:59:12	2.3201	991.36
1171	0	7: 0:17	2.3380	994.83
1180	0	7: 1:22	2.3560	997.43
1189	0	7: 2:26	2.3740	998.30
1198	0	7: 3:31	2.3920	1000.03
1207	0	7: 4:36	2.4100	1002.64
1216	0	7: 5:41	2.4280	1006.97
1225	0	7: 6:45	2.4460	1010.44
1234	0	7: 7:50	2.4639	1011.31
1243	0	7: 8:55	2.4819	1013.04
1252	0	7:10: 0	2.4999	1015.65
1261	0	7:11: 4	2.5179	1017.38
1270	0	7:12: 9	2.5359	1019.12
1279	0	7:13:14	2.5539	1019.12
1288	0	7:14:19	2.5719	1021.72
1297	0	7:15:23	2.5898	1022.59
1306	0	7:16:28	2.6078	1024.32
1315	0	7:17:33	2.6258	1026.05
1324	0	7:18:38	2.6438	1028.66
1333	0	7:19:42	2.6618	1029.52
1342	0	7:20:47	2.6798	1031.26
1351	0	7:21:52	2.6978	1031.26
1360	0	7:22:57	2.7157	1032.99
1369	0	7:24: 1	2.7337	1032.99
1378	0	7:25: 6	2.7517	1032.99
1387	0	7:26:11	2.7697	1033.86
1396	0	7:27:16	2.7877	1034.73

WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC  
Well: #1 DURHAM DST 6  
Field: TKT 22091

[Friday: July 5, 1996]  
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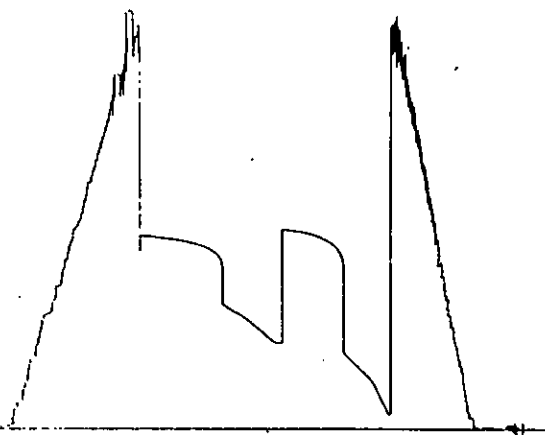
REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1405	0	7:28:20	2.8057	1035.60
1414	0	7:29:25	2.8236	1037.33
1423	0	7:30:30	2.8416	1038.20
1432	0	7:31:35	2.8596	1039.06
1441	0	7:32:39	2.8776	1039.06
1450	0	7:33:44	2.8956	1040.80
1459	0	7:34:49	2.9136	1041.67
1468	0	7:35:54	2.9316	1043.40
1477	0	7:36:58	2.9495	1045.14
1486	0	7:38: 3	2.9675	1046.00
1495	0	7:39: 8	2.9855	1047.74
1504	0	7:40:13	3.0035	1048.61
1513	0	7:41:17	3.0215	1049.47
1522	0	7:42:22	3.0395	1050.34
1531	0	7:43:27	3.0575	1048.61
1540	0	7:44:32	3.0754	1048.61
1549	0	7:45:36	3.0934	1049.47
1558	0	7:46:41	3.1114	1050.34

WESTERN TESTING CO., INC.

15109.20629.0000

JK4 22091  
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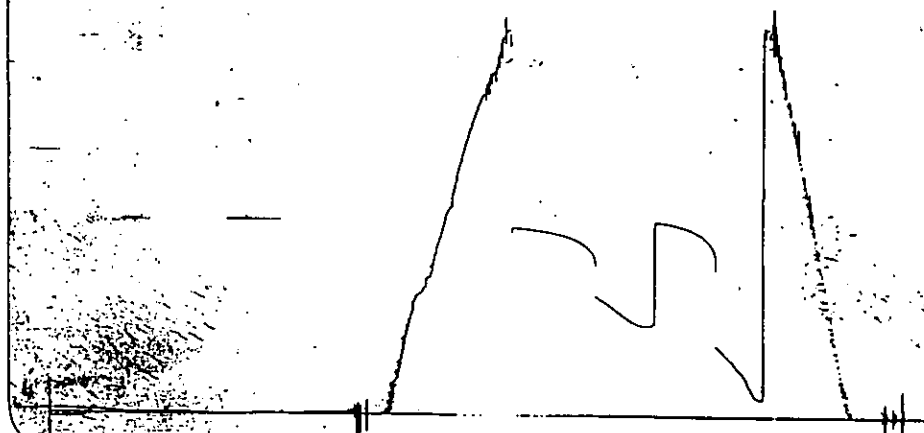


Inside Recorder

JK4 22091

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Outside Recorder

# ORIGINAL

## DST REPORT

### GENERAL INFORMATION

DATE : 7/6/96  
CUSTOMER : JOHN O FARMER, INC.  
WELL : #1 TEST: 7  
ELEVATION: 3007 KB  
SECTION : 24  
RANGE : 32W COUNTY: LOGAN  
GAUGE SN#: 10270 RANGE : 4150  
TICKET : 22092  
LEASE : DURHAM  
GEOLOGIST: FARMER  
FORMATION: LANSING E & F  
TOWNSHIP : 11S  
STATE : KS  
CLOCK : 12

### WELL INFORMATION

PERFORATION INTERVAL FROM: 4078.00 ft TO: 4112.00 ft TVD: 4660.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 4081.0 ft 4084.0 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 :	4053.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	25.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	34.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	4073.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4078.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4112.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

### MUD INFORMATION

DRILLING CON. : ABERCROMBIE RIG 8  
MUD TYPE : CHEMICAL  
WEIGHT : 9.100 ppg  
CHLORIDES : 2500 ppm  
JARS-MAKE :  
DID WELL FLOW?: NO  
VISCOSITY : 48.00 cp  
WATER LOSS: 9.400 cc  
SERIAL NUMBER:  
REVERSED OUT?: NO

### COMMENTS

#### Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW  
IN 10 MINUTES. FINAL FLOW PERIOD WEAK BUILDING TO  
A STRONG BLOW IN 25 MINUTES.

ORIGINAL

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DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	420 FT GAS ABOVE FLUID
140.0	100.0	0.0	0.0	0.0	CLEAN OIL GRAVITY 40
100.0	13.0	5.0	2.0	80.0	OIL & GAS CUT MUD
60.0	2.0	0.0	45.0	53.0	SL OIL CUT WATERY MUD
60.0	2.0	0.0	73.0	25.0	SL OIL CUT MUDDY WATER
240.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 60000 PPM

RATE INFORMATION

OIL VOLUME:	2.1797 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.3938 SCF	AVERAGE OIL RATE:	50.8285 STB/D
MUD VOLUME:	1.7785 STB	AVERAGE WATER RATE:	82.7024 STB/D
WATER VOLUME:	4.3874 STB		
TOTAL FLUID :	8.3457 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2149.00			
Description	Duration	p1	p End
INITIAL FLOW	45.00	72.00	177.00
INITIAL SHUT-IN	45.00		1060.00
FINAL FLOW	45.00	239.00	302.00
FINAL SHUT-IN	60.00		1008.00
FINAL HYDROSTATIC PRESSURE: 2108.00			

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2150.00			
Description	Duration	p1	p End
INITIAL FLOW	45.00	93.30	200.19
INITIAL SHUT-IN	45.00		1065.06
FINAL FLOW	45.00	270.56	323.57
FINAL SHUT-IN	60.00		1022.11
FINAL HYDROSTATIC PRESSURE: 2110.00			

ORIGINAL

Company: JOHN O FARMER INC  
Well: DURHAM #1 DST 7  
Field: TKT 22092

[Saturday: July 6, 1996]  
Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
-----				
START FLOW 1				
1	0	18:26: 1	0.0000	93.30
10	0	18:27: 6	0.0180	93.26
19	0	18:28:11	0.0359	89.76
28	0	18:29:15	0.0539	89.72
37	0	18:30:20	0.0719	89.68
46	0	18:31:25	0.0899	91.37
55	0	18:32:30	0.1079	93.07
64	0	18:33:35	0.1259	94.76
73	0	18:34:39	0.1439	97.33
82	0	18:35:44	0.1619	100.76
91	0	18:36:49	0.1800	103.32
100	0	18:37:54	0.1980	106.75
109	0	18:38:59	0.2160	111.05
118	0	18:40: 4	0.2340	114.48
127	0	18:41: 9	0.2521	117.91
136	0	18:42:14	0.2701	120.47
145	0	18:43:19	0.2881	123.90
154	0	18:44:23	0.3061	127.33
163	0	18:45:28	0.3242	131.63
172	0	18:46:33	0.3422	135.93
181	0	18:47:38	0.3602	138.49
190	0	18:48:43	0.3783	142.79
199	0	18:49:48	0.3963	147.08
208	0	18:50:53	0.4143	149.65
217	0	18:51:58	0.4323	153.08
226	0	18:53: 3	0.4504	156.51
235	0	18:54: 7	0.4684	159.07
244	0	18:55:12	0.4864	161.63
253	0	18:56:17	0.5044	165.06
262	0	18:57:22	0.5224	168.49
271	0	18:58:27	0.5405	171.92
280	0	18:59:32	0.5585	174.48
289	0	19: 0:37	0.5765	177.91
298	0	19: 1:42	0.5945	182.21
307	0	19: 2:47	0.6126	185.64
316	0	19: 3:51	0.6306	189.07
325	0	19: 4:56	0.6486	191.63
334	0	19: 6: 1	0.6666	194.20
343	0	19: 7: 6	0.6847	197.63
352	0	19: 8:11	0.7027	200.19
END FLOW 1				
START SHUTIN 1				
356	0	19: 8:43	0.7116	282.57
359	0	19: 9:14	0.7203	516.73
366	0	19:10:15	0.7371	757.82
374	0	19:11:16	0.7541	844.51
383	0	19:12:23	0.7727	894.78
392	0	19:13:29	0.7910	923.36
401	0	19:14:34	0.8092	944.14
410	0	19:15:40	0.8274	960.58
419	0	19:16:45	0.8455	972.68
428	0	19:17:50	0.8636	983.92
437	0	19:18:55	0.8817	991.69
446	0	19:20: 0	0.8997	999.45

WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC  
Well: DURHAM #1 DST 7  
Field: TKT 22092

15-109-20629-0000

[Saturday: July 6, 1996]  
Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
455	0	19:21: 5	0.9178	1006.35
464	0	19:22:10	0.9359	1012.38
473	0	19:23:15	0.9539	1018.42
482	0	19:24:20	0.9720	1022.71
491	0	19:25:25	0.9900	1026.14
500	0	19:26:30	1.0080	1028.71
509	0	19:27:35	1.0260	1032.14
518	0	19:28:40	1.0440	1034.70
527	0	19:29:45	1.0621	1037.26
536	0	19:30:50	1.0801	1039.82
545	0	19:31:54	1.0981	1042.39
554	0	19:32:59	1.1161	1044.08
563	0	19:34: 4	1.1341	1045.78
572	0	19:35: 9	1.1521	1046.61
581	0	19:36:14	1.1701	1048.30
590	0	19:37:18	1.1881	1050.00
599	0	19:38:23	1.2061	1051.69
608	0	19:39:28	1.2241	1052.52
617	0	19:40:33	1.2421	1055.08
626	0	19:41:38	1.2601	1055.91
635	0	19:42:42	1.2781	1057.61
644	0	19:43:47	1.2961	1058.43
653	0	19:44:52	1.3141	1059.26
662	0	19:45:57	1.3321	1060.96
671	0	19:47: 2	1.3501	1060.92
680	0	19:48: 6	1.3681	1061.75
689	0	19:49:11	1.3861	1063.44
698	0	19:50:16	1.4041	1063.40
707	0	19:51:21	1.4221	1064.23
716	0	19:52:26	1.4401	1065.06
		END SHUTIN 1		
		START FLOW 2		
724	0	19:52:50	1.4469	270.56
729	0	19:53:26	1.4569	270.54
738	0	19:54:30	1.4747	256.62
747	0	19:55:35	1.4926	252.24
756	0	19:56:39	1.5106	248.74
765	0	19:57:44	1.5285	246.96
774	0	19:58:49	1.5465	246.92
783	0	19:59:53	1.5645	247.75
792	0	20: 0:58	1.5825	248.58
801	0	20: 2: 3	1.6005	248.54
810	0	20: 3: 8	1.6185	250.24
819	0	20: 4:13	1.6365	251.93
828	0	20: 5:17	1.6545	252.76
837	0	20: 6:22	1.6725	254.45
846	0	20: 7:27	1.6905	255.28
855	0	20: 8:32	1.7085	257.85
864	0	20: 9:37	1.7265	260.41
873	0	20:10:42	1.7445	262.10
882	0	20:11:46	1.7625	265.53
891	0	20:12:51	1.7806	268.10
900	0	20:13:56	1.7986	270.66
909	0	20:15: 1	1.8166	272.35
918	0	20:16: 6	1.8346	274.05

WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC  
 Well: DURHAM #1 DST 7  
 Field: TKT 22092

[Saturday: July 6, 1996]  
 Page 3

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
927	0	20:17:11	1.8526	276.61
936	0	20:18:15	1.8706	278.31
945	0	20:19:20	1.8886	280.87
954	0	20:20:25	1.9066	282.57
963	0	20:21:30	1.9246	286.00
972	0	20:22:35	1.9427	288.56
981	0	20:23:40	1.9607	291.12
990	0	20:24:45	1.9787	293.68
999	0	20:25:49	1.9967	295.38
1008	0	20:26:54	2.0147	297.94
1017	0	20:27:59	2.0327	300.51
1026	0	20:29: 4	2.0508	303.07
1035	0	20:30: 9	2.0687	304.76
1044	0	20:31:14	2.0868	307.33
1053	0	20:32:18	2.1048	309.89
1062	0	20:33:23	2.1228	314.19
1071	0	20:34:28	2.1408	315.01
1080	0	20:35:33	2.1588	317.58
1089	0	20:36:38	2.1768	319.27
1098	0	20:37:43	2.1949	323.57
		END FLOW 2		
		START SHUTIN 2		
1102	0	20:38:18	2.2048	487.48
1105	0	20:38:45	2.2121	606.29
1113	0	20:39:49	2.2299	764.97
1122	0	20:40:56	2.2486	824.78
1131	0	20:42: 3	2.2671	862.90
1140	0	20:43: 8	2.2853	888.01
1149	0	20:44:14	2.3035	904.45
1158	0	20:45:19	2.3217	918.29
1167	0	20:46:24	2.3398	929.53
1176	0	20:47:30	2.3579	939.03
1185	0	20:48:35	2.3759	946.80
1194	0	20:49:40	2.3940	953.70
1203	0	20:50:45	2.4120	958.86
1212	0	20:51:50	2.4301	964.02
1221	0	20:52:54	2.4481	968.32
1230	0	20:53:59	2.4662	972.62
1239	0	20:55: 4	2.4842	976.05
1248	0	20:56: 9	2.5022	979.48
1257	0	20:57:14	2.5202	982.91
1266	0	20:58:19	2.5382	985.47
1275	0	20:59:24	2.5563	988.04
1284	0	21: 0:29	2.5743	990.60
1293	0	21: 1:33	2.5923	992.29
1302	0	21: 2:38	2.6103	994.86
1311	0	21: 3:43	2.6283	995.68
1320	0	21: 4:48	2.6463	997.38
1329	0	21: 5:53	2.6643	999.08
1338	0	21: 6:58	2.6823	1000.77
1347	0	21: 8: 2	2.7003	1001.60
1356	0	21: 9: 7	2.7183	1002.43
1365	0	21:10:12	2.7363	1004.12
1374	0	21:11:17	2.7543	1005.82
1383	0	21:12:22	2.7723	1006.65

WESTERN TESTING CO., INC.

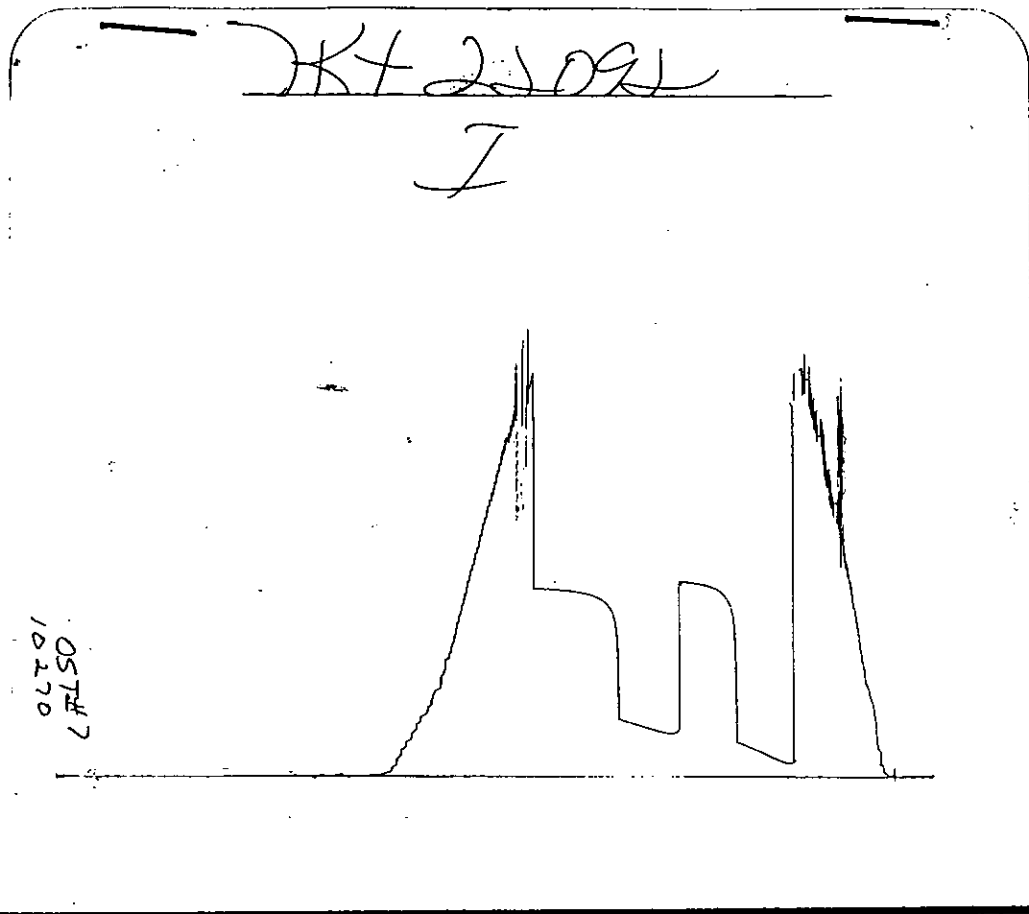


Company: JOHN O FARMER INC  
Well: DURHAM #1 DST 7  
Field: TKT 22092

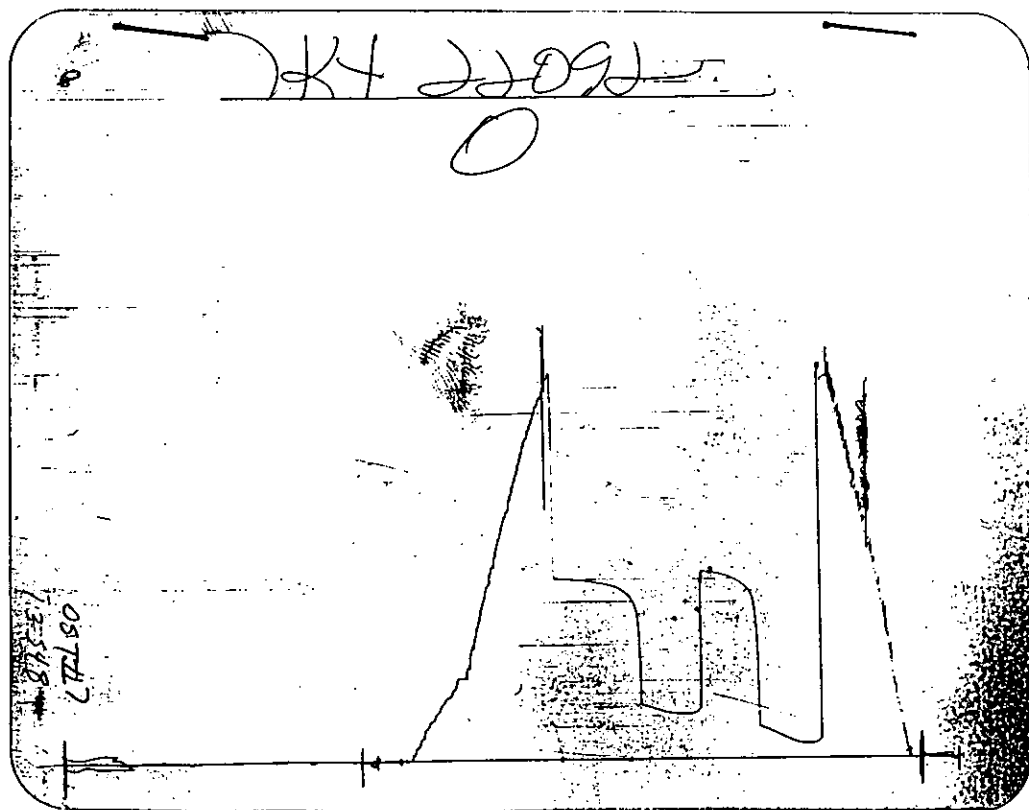
15-109-20629-0000  
[Saturday: July 6, 1996]  
Page 4

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1392	0	21:13:26	2.7903	1007.47
1401	0	21:14:31	2.8083	1008.30
1410	0	21:15:36	2.8263	1010.00
1419	0	21:16:41	2.8443	1010.83
1428	0	21:17:45	2.8623	1010.79
1437	0	21:18:50	2.8803	1011.61
1446	0	21:19:55	2.8983	1011.58
1455	0	21:21: 0	2.9162	1011.54
1464	0	21:22: 4	2.9342	1012.36
1473	0	21:23: 9	2.9522	1013.19
1482	0	21:24:14	2.9702	1014.89
1491	0	21:25:19	2.9882	1013.98
1500	0	21:26:24	3.0062	1014.81
1509	0	21:27:28	3.0242	1015.64
1518	0	21:28:33	3.0422	1017.33
1527	0	21:29:38	3.0602	1017.29
1536	0	21:30:43	3.0782	1017.26
1545	0	21:31:47	3.0962	1018.08
1554	0	21:32:52	3.1142	1018.04
1563	0	21:33:57	3.1321	1018.87
1572	0	21:35: 2	3.1501	1018.83
1581	0	21:36: 7	3.1681	1019.66
1590	0	21:37:11	3.1861	1019.62
1599	0	21:38:16	3.2041	1020.45
1608	0	21:39:21	3.2221	1021.28
1617	0	21:40:26	3.2401	1022.11

WESTERN TESTING CO., INC.



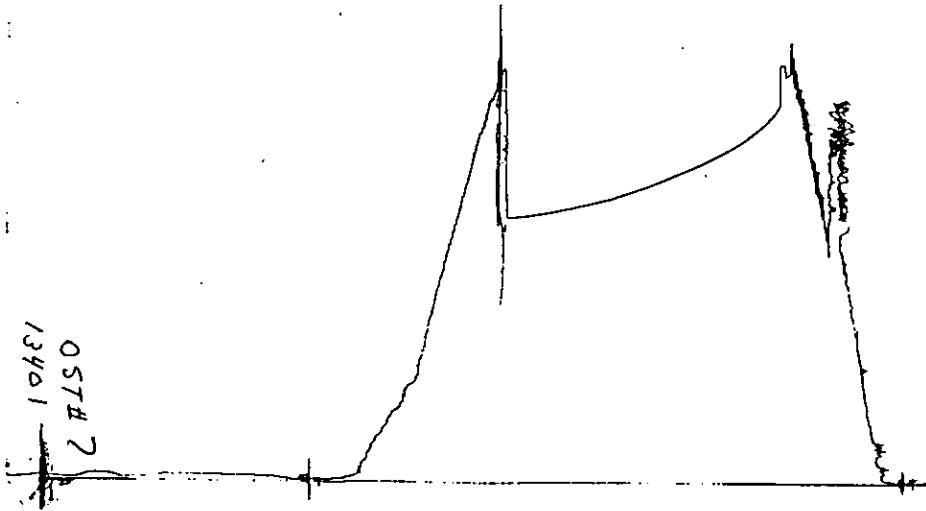
Inside Recorder



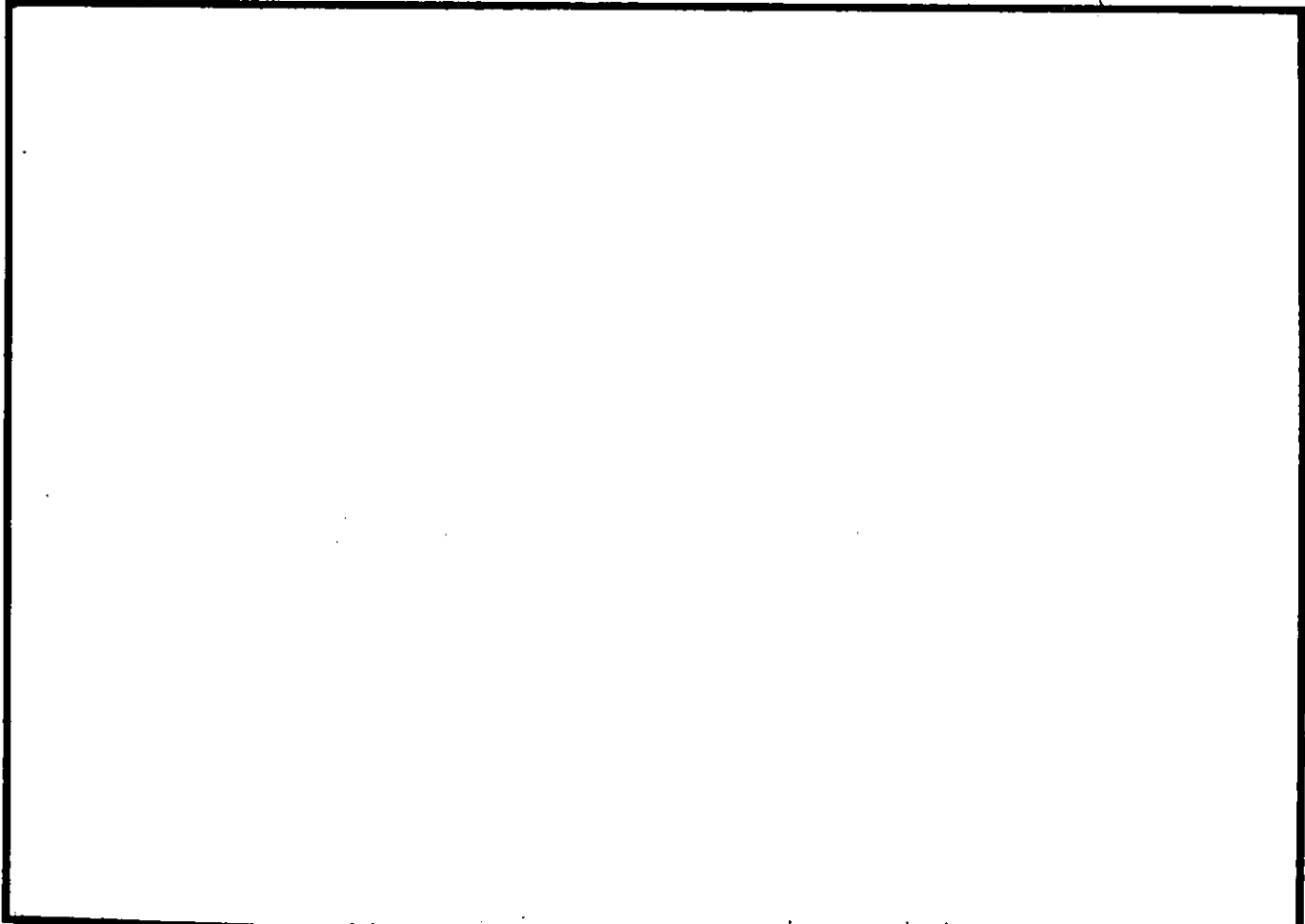
Outside Recorder

15-109-20629-0000

KT 25092  
Below Steadle



Inside Recorder



Outside Recorder

# ORIGINAL

## DST REPORT

### GENERAL INFORMATION

DATE	: 7/7/96	TICKET	: 22093
CUSTOMER	: JOHN O FARMER, INC.	LEASE	: DURHAM
WELL	: #1	TEST: 8	GEOLOGIST: FARMER
ELEVATION	: 3007 KB	FORMATION	: MYRIK STATION
SECTION	: 24	TOWNSHIP	: 11S
RANGE	: 32W	COUNTY: LOGAN	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

### WELL INFORMATION

PERFORATION INTERVAL FROM:	4448.00 ft	TO:	4477.00 ft	TVD:	4660.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4451.0 ft		4454.0 ft		
TEMPERATURE:	116.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	380.0 ft	I.D.:		2.700 in	
DRILL PIPE LENGTH :	4043.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	25.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	29.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :		4.5XH	
PACKER DEPTH:	4443.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4448.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4477.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

### MUD INFORMATION

DRILLING CON. :	ABERCROMBIE RIG 8	VISCOSITY :	48.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.400 cc
WEIGHT :	9.400 ppg	SERIAL NUMBER:	
CHLORIDES :	2500 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

### COMMENTS

#### Comment

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

ORIGINAL

15109-20629-0000

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	0.0	0.0	75.0	25.0	MUDDY WATER
360.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 62000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	105.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.2809	STB	AVERAGE WATER RATE:	50.3683	STB/D
WATER VOLUME:	3.3918	STB			
TOTAL FLUID :	3.6727	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2275.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	62.00	135.00
INITIAL SHUT-IN	45.00		966.00
FINAL FLOW	60.00	187.00	229.00
FINAL SHUT-IN	60.00		914.00

FINAL HYDROSTATIC PRESSURE: 2202.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2279.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	72.93	141.80
INITIAL SHUT-IN	45.00		961.66
FINAL FLOW	60.00	191.44	227.75
FINAL SHUT-IN	60.00		919.57

FINAL HYDROSTATIC PRESSURE: 2203.00

Company: JOHN O FARMER INC.  
Well: DURHAM #1  
Field: TKT 22093 DST 8

[Sunday: July 7, 1996]  
Page 1

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
-----				
START FLOW 1				
1	0	3: 1:58	0.0000	72.93
10	0	3: 3: 2	0.0180	71.16
19	0	3: 4: 7	0.0359	67.65
28	0	3: 5:12	0.0539	67.62
37	0	3: 6:17	0.0719	68.45
46	0	3: 7:21	0.0899	69.28
55	0	3: 8:26	0.1079	70.98
64	0	3: 9:31	0.1259	73.55
73	0	3:10:36	0.1439	75.25
82	0	3:11:41	0.1619	77.81
91	0	3:12:45	0.1799	80.38
100	0	3:13:50	0.1979	82.95
109	0	3:14:55	0.2159	85.51
118	0	3:16: 0	0.2339	87.21
127	0	3:17: 5	0.2519	88.91
136	0	3:18:10	0.2700	91.48
145	0	3:19:14	0.2880	92.31
154	0	3:20:19	0.3060	94.88
163	0	3:21:24	0.3240	96.58
172	0	3:22:29	0.3420	99.14
181	0	3:23:34	0.3600	101.71
190	0	3:24:39	0.3780	103.41
199	0	3:25:43	0.3960	105.98
208	0	3:26:48	0.4140	107.68
217	0	3:27:53	0.4320	110.24
226	0	3:28:58	0.4500	111.94
235	0	3:30: 3	0.4680	113.64
244	0	3:31: 8	0.4861	117.08
253	0	3:32:12	0.5041	118.78
262	0	3:33:17	0.5221	121.34
271	0	3:34:22	0.5401	123.91
280	0	3:35:27	0.5581	125.61
289	0	3:36:32	0.5761	128.17
298	0	3:37:37	0.5941	130.74
307	0	3:38:41	0.6121	133.31
316	0	3:39:46	0.6301	134.14
325	0	3:40:51	0.6481	137.57
334	0	3:41:56	0.6661	139.27
343	0	3:43: 1	0.6841	140.97
352	0	3:44: 5	0.7021	141.80
END FLOW 1				
START SHUTIN 1				
354	0	3:44:25	0.7076	284.04
359	0	3:45: 8	0.7196	472.23
367	0	3:46:11	0.7370	609.23
376	0	3:47:18	0.7555	661.24
385	0	3:48:23	0.7738	692.43
394	0	3:49:29	0.7921	717.54
403	0	3:50:35	0.8103	739.19
412	0	3:51:40	0.8285	758.24
421	0	3:52:45	0.8466	769.48
430	0	3:53:51	0.8647	784.19
439	0	3:54:56	0.8828	795.43
448	0	3:56: 1	0.9009	804.93

WESTERN TESTING CO., INC.

Company: JOHN O FARMER INC.  
 Well: DURHAM #1  
 Field: TKT 22093 DST 8

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
457	0	3:57: 6	0.9190	814.44
466	0	3:58:11	0.9370	823.94
475	0	3:59:16	0.9551	832.58
484	0	4: 0:21	0.9732	841.22
493	0	4: 1:26	0.9913	848.12
502	0	4: 2:31	1.0093	856.76
511	0	4: 3:36	1.0274	863.66
520	0	4: 4:41	1.0454	869.70
529	0	4: 5:46	1.0635	874.87
538	0	4: 6:51	1.0815	880.04
547	0	4: 7:56	1.0996	886.07
556	0	4: 9: 1	1.1176	891.24
565	0	4:10: 6	1.1356	896.41
574	0	4:11:11	1.1537	900.71
583	0	4:12:16	1.1717	905.88
592	0	4:13:21	1.1898	911.05
601	0	4:14:26	1.2078	913.61
610	0	4:15:31	1.2258	917.92
619	0	4:16:35	1.2438	922.22
628	0	4:17:40	1.2618	925.65
637	0	4:18:45	1.2799	929.95
646	0	4:19:50	1.2979	932.52
655	0	4:20:55	1.3159	935.95
664	0	4:22: 0	1.3339	939.39
673	0	4:23: 5	1.3520	942.82
682	0	4:24:10	1.3700	945.39
691	0	4:25:14	1.3880	948.82
700	0	4:26:19	1.4060	953.12
709	0	4:27:24	1.4240	954.82
718	0	4:28:29	1.4420	957.39
727	0	4:29:34	1.4600	959.96
736	0	4:30:39	1.4780	961.66
		END SHUTIN 1		
		START FLOW 2		
744	0	4:31: 7	1.4860	191.44
749	0	4:31:43	1.4960	189.69
758	0	4:32:48	1.5139	184.45
767	0	4:33:52	1.5319	182.68
776	0	4:34:57	1.5499	181.77
785	0	4:36: 2	1.5678	181.74
794	0	4:37: 7	1.5858	182.57
803	0	4:38:12	1.6038	183.40
812	0	4:39:16	1.6218	183.37
821	0	4:40:21	1.6398	185.07
830	0	4:41:26	1.6578	184.16
839	0	4:42:31	1.6758	185.00
848	0	4:43:35	1.6938	185.83
857	0	4:44:40	1.7118	185.79
866	0	4:45:45	1.7298	186.63
875	0	4:46:50	1.7478	188.32
884	0	4:47:54	1.7658	190.02
893	0	4:48:59	1.7838	190.86
902	0	4:50: 4	1.8017	190.82
911	0	4:51: 9	1.8197	192.52
920	0	4:52:14	1.8378	194.22

WESTERN TESTING CO., INC.

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
929	0	4:53:18	1.8558	196.79
938	0	4:54:23	1.8737	196.75
947	0	4:55:28	1.8918	198.45
956	0	4:56:33	1.9098	200.15
965	0	4:57:38	1.9278	201.85
974	0	4:58:42	1.9457	202.68
983	0	4:59:47	1.9637	202.65
992	0	5: 0:52	1.9817	205.21
1001	0	5: 1:57	1.9997	206.04
1010	0	5: 3: 2	2.0177	206.88
1019	0	5: 4: 6	2.0357	209.44
1028	0	5: 5:11	2.0537	209.41
1037	0	5: 6:16	2.0717	210.24
1046	0	5: 7:21	2.0897	211.94
1055	0	5: 8:26	2.1077	212.77
1064	0	5: 9:30	2.1257	213.60
1073	0	5:10:35	2.1437	215.30
1082	0	5:11:40	2.1617	216.14
1091	0	5:12:45	2.1797	216.97
1100	0	5:13:49	2.1977	216.93
1109	0	5:14:54	2.2157	217.76
1118	0	5:15:59	2.2337	219.46
1127	0	5:17: 4	2.2517	220.30
1136	0	5:18: 9	2.2697	221.13
1145	0	5:19:13	2.2877	221.96
1154	0	5:20:18	2.3057	222.79
1163	0	5:21:23	2.3236	222.76
1172	0	5:22:28	2.3417	224.46
1181	0	5:23:32	2.3597	227.02
1190	0	5:24:37	2.3776	226.12
1199	0	5:25:42	2.3956	227.82
1208	0	5:26:47	2.4136	226.92
1217	0	5:27:52	2.4316	227.75
		END FLOW 2		
		START SHUTIN 2		
1226	0	5:29: 0	2.4506	329.19
1234	0	5:30: 5	2.4688	533.85
1243	0	5:31:13	2.4874	600.60
1252	0	5:32:19	2.5058	635.25
1261	0	5:33:24	2.5240	655.17
1270	0	5:34:29	2.5422	673.35
1279	0	5:35:35	2.5603	689.79
1288	0	5:36:40	2.5784	703.63
1297	0	5:37:45	2.5965	714.00
1306	0	5:38:50	2.6146	725.24
1315	0	5:39:56	2.6327	734.75
1324	0	5:41: 1	2.6508	744.25
1333	0	5:42: 6	2.6689	752.89
1342	0	5:43:11	2.6869	760.66
1351	0	5:44:16	2.7050	768.43
1360	0	5:45:21	2.7231	775.34
1369	0	5:46:26	2.7411	781.37
1378	0	5:47:31	2.7592	789.14
1387	0	5:48:36	2.7772	794.31

WESTERN TESTING CO., INC.



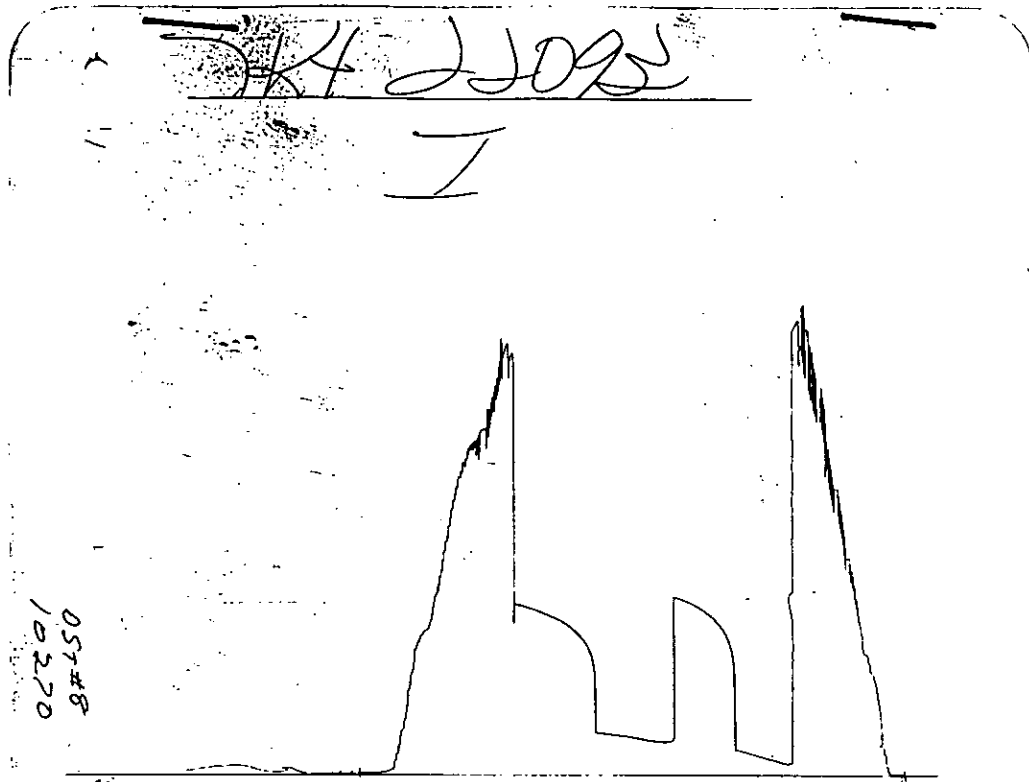
Company: JOHN O FARMER INC.  
Well: DURHAM #1  
Field: TKT 22093 DST 8

15/09-20629-0000

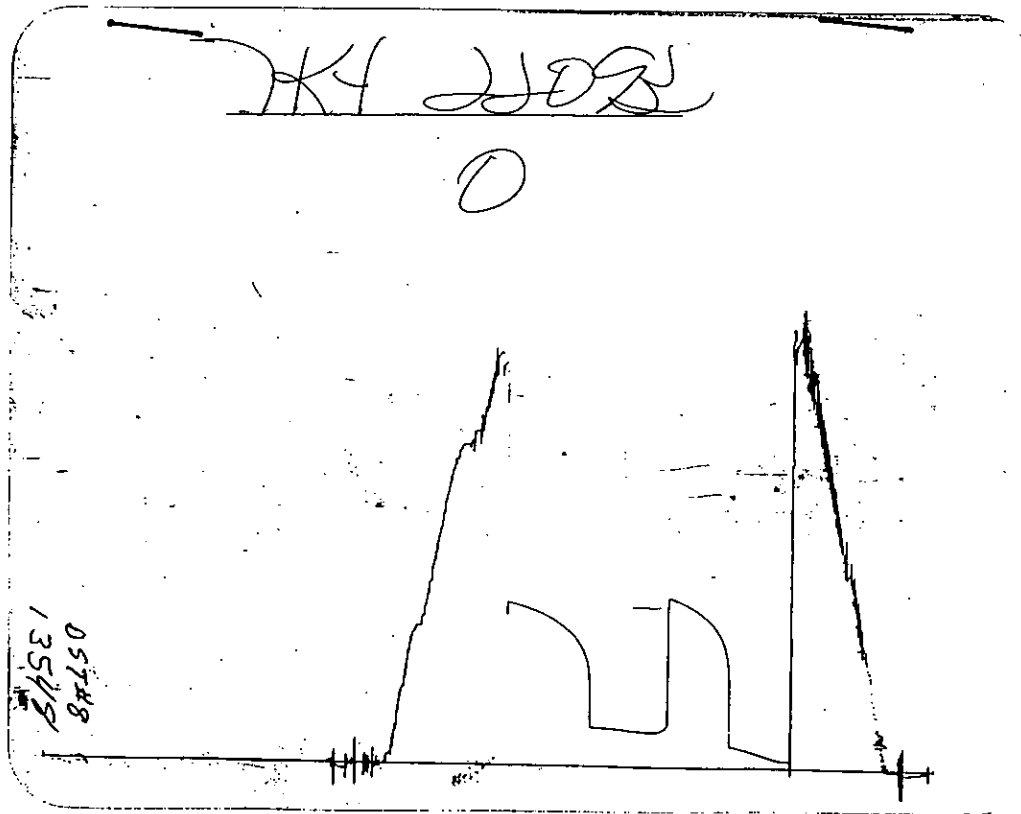
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1396	0	5:49:41	2.7953	800.35
1405	0	5:50:46	2.8133	806.38
1414	0	5:51:51	2.8314	811.55
1423	0	5:52:56	2.8494	815.85
1432	0	5:54: 1	2.8674	821.89
1441	0	5:55: 5	2.8855	827.06
1450	0	5:56:10	2.9035	829.63
1459	0	5:57:15	2.9215	833.93
1468	0	5:58:20	2.9395	838.23
1477	0	5:59:25	2.9576	841.66
1486	0	6: 0:30	2.9756	846.83
1495	0	6: 1:35	2.9936	848.53
1504	0	6: 2:40	3.0116	851.96
1513	0	6: 3:44	3.0297	856.27
1522	0	6: 4:49	3.0477	858.83
1531	0	6: 5:54	3.0657	862.27
1540	0	6: 6:59	3.0837	865.70
1549	0	6: 8: 4	3.1017	867.40
1558	0	6: 9: 9	3.1197	870.83
1567	0	6:10:14	3.1378	874.27
1576	0	6:11:19	3.1558	878.57
1585	0	6:12:23	3.1738	880.27
1594	0	6:13:28	3.1918	883.70
1603	0	6:14:33	3.2098	886.27
1612	0	6:15:38	3.2278	888.84
1621	0	6:16:43	3.2458	890.54
1630	0	6:17:48	3.2639	893.10
1639	0	6:18:52	3.2819	894.80
1648	0	6:19:57	3.2999	898.24
1657	0	6:21: 2	3.3179	900.80
1666	0	6:22: 7	3.3359	903.37
1675	0	6:23:12	3.3539	905.94
1684	0	6:24:17	3.3719	906.77
1693	0	6:25:21	3.3899	910.20
1702	0	6:26:26	3.4079	912.77
1711	0	6:27:31	3.4260	915.33
1720	0	6:28:36	3.4439	916.17
1729	0	6:29:41	3.4619	917.87
1738	0	6:30:46	3.4799	919.57

WESTERN TESTING CO., INC.

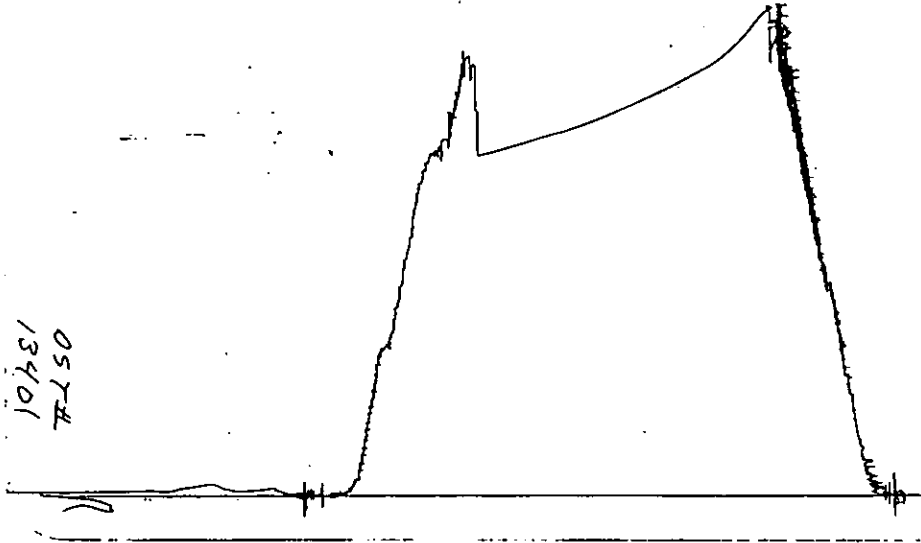


Inside Recorder



Outside Recorder

PK 2209B  
Below Straddle



Inside Recorder

Outside Recorder