

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

API NO. 15- 051-25085-0000

ORIGINAL

County ELLIS
APPROX CN1 - S1 - NE - Sec. 27 Twp. 11 Rge. 19 X^E_W

Operator: License # 5259

1700 Feet from S(N) (circle one) Line of Section

Name: MAI OIL OPERATIONS, INC.

1350 Feet from E(W) (circle one) Line of Section

Address P.O. BOX 33

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

City/State/Zip RUSSELL, KS. 67665

Lease Name WARREN VINE Well # 1

Purchaser: NCRA

Field Name SOLOMON

Operator Contact Person: ALLEN BANGERT

Producing Formation ARBUCKLE

Phone (785) 483 2169

Elevation: Ground 2111 KB 2116

Contractor: Name: MURFIN DRILLING

Total Depth 3634' PBDT 3634'

License: 30606

Amount of Surface Pipe Set and Cemented at 219 Feet

Wellsite Geologist: TODD MORGENSTERN

Multiple Stage Cementing Collar Used? Yes X No

Designate Type of Completion
 New Well Re-Entry Workover

If yes, show depth set _____ Feet

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

If Alternate II completion, cement circulated from 1401

feet depth to SURFACE w/ 160 sx cmt.

If Workover:

Drilling Fluid Management Plan ALT II 7/27/01 JB
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 7000 ppm Fluid volume 300 bbls

Well Name: _____

Dewatering method used LET DRY AND BACKFILL

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

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

Operator Name _____

Lease Name _____ License No. _____

4-6-2001 4-12-2001 4-13-2001
Spud Date Date Reached TD Completion Date

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

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 Allen Bangert
Title PROD. SUPT Date 7-18-01

Subscribed and sworn to before me this 18 day of July, 19-2001.

Notary Public Sherril Underwood
Date Commission Expires 10-30-2001 KM 511

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution
 KCC SMD/Rep NGPA
 KGS Plug Other
(Specify)

SHERRIL UNDERWOOD
NOTARY PUBLIC
STATE OF KANSAS
MY EXPIRES

JUL 19 2001
07 19 2001
CONSERVATION

Operator Name MAT OIL OPERATIONS, INC. Lease Name WARREN VINE Well # 1

Sec. 27 Twp. 11 Rge. 19 East West
 County ELLIS

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.) List All E.Logs Run: <p style="text-align: center;">RADIATION-GUARD</p>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input 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>ANHYDRITE</td> <td>1407</td> <td>709</td> </tr> <tr> <td>TOPEKA</td> <td>3078</td> <td>-962</td> </tr> <tr> <td>HEEBNER</td> <td>3304</td> <td>-1188</td> </tr> <tr> <td>LANSING</td> <td>3344</td> <td>-1228</td> </tr> <tr> <td>BKC</td> <td>3565</td> <td>-1449</td> </tr> <tr> <td>SIMPSON SH</td> <td>3604</td> <td>-1488</td> </tr> <tr> <td>ARBUCKLE</td> <td>3629</td> <td>-1513</td> </tr> <tr> <td>RTD</td> <td>3634</td> <td>-1518</td> </tr> </tbody> </table>	Name	Top	Datum	ANHYDRITE	1407	709	TOPEKA	3078	-962	HEEBNER	3304	-1188	LANSING	3344	-1228	BKC	3565	-1449	SIMPSON SH	3604	-1488	ARBUCKLE	3629	-1513	RTD	3634	-1518
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RTD	3634	-1518																										

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12 1/4"	8 5/8"	20	219	60-40POZ	150	2% GEL 3% CC
PRODUCTION	7 7/8"	5 1/2"	15.50	3633	ASC	175	1/8# PS FLOCELE

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

TUBING RECORD	Size 2 7/8"	Set At 3630'	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, S/D or Inj. 5-13-2001		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls. 50	Gas Mcf	Water Bbls. 0	Gas-Oil Ratio Gravity

Disposition of Gas: METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 3633-34'
 (If vented, submit ACO-18.) Other (Specify) _____

ALLIED CEMENTING CO., INC.

Federal Tax I.D.

15-051-25085-0000
SERVICE POINT: R

P.O. BOX 31
RUSSELL, KANSAS 67665

147-01	SEC. 27	TWP. 11	RANGE 19	CALLED OUT	ON LOCATION	JOB START	JOB FINISH 4:15 AM
Warren Vine	WELL # 1	LOCATION Yocemento 10 N 1E			COUNTY Ellis	STATE KS	

JLD OR NEW (Circle one)

CONTRACTOR Murfin Rig 8
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 220
 CASING SIZE 8 3/4 DEPTH 219
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 10 1/2
 PERFS. _____
 DISPLACEMENT 20# 13.50

EQUIPMENT

343
 PUMP TRUCK # _____ CEMENTER Dave
 # _____ HELPER _____
 BULK TRUCK # _____ DRIVER _____
 BULK TRUCK # 282 DRIVER Shane

OWNER ORIGINAL

CEMENT AMOUNT ORDERED 150 60 3 Y 2

COMMON	<u>90</u>	@	<u>6.35</u>	<u>571.50</u>
POZMIX	<u>60</u>	@	<u>3.25</u>	<u>195.00</u>
GEL	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	@	<u>28.00</u>	<u>140.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>158</u>	@	<u>1.05</u>	<u>165.90</u>
MILEAGE	<u>4 #/SK</u>	/MILE		<u>107.44</u>
TOTAL				<u>1208.34</u>

REMARKS:

Cement Cr

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>470.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>17</u>	@	<u>3.00</u>	<u>51.00</u>
PLUG	<u>8' & warden</u>	@		<u>45.00</u>
		@		
		@		
TOTAL				<u>566.00</u>

CHARGE TO: Mai Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

KANSAS _____ @ _____
 _____ @ _____
JUL 15 _____ @ _____
 _____ @ _____
 CONSERVATION _____ @ _____
 TOTAL _____

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

ALLIED CEMENTING CO., INC.

Federal Tax I.D.#

15051-25085-0000

SERVICE POINT:

P.O. BOX 31
RUSSELL, KANSAS 67665

Russell

472-01	SEC. 27	TWP. 11 S	RANGE 19 W	CALLED OUT 1:00 PM	ON LOCATION 2:30 PM	JOB START 6:00 PM	JOB FINISH 6:45 PM
ARREN CASE VINE	WELL # 1	LOCATION Yocemento I-70 Exit 10N 1E			COUNTY Ellis	STATE KANSAS	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR MURFIN DRIG. Rig # 8
 TYPE OF JOB Production String
 HOLE SIZE 7 7/8 T.D. 3634
 CASING SIZE 5 1/2 DEPTH 3633 KR
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL Port Collar @ DEPTH 1401
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE SHOE JOINT 30.
 CEMENT LEFT IN CSG. 31'
~~REPER~~ INSERT 3602
 DISPLACEMENT 88/88L

OWNER ORIGINAL
 CEMENT
 AMOUNT ORDERED 190 SK ASC. 2% GEL
3/4 OF 1 1/2 CFR 2
1/8 # FLO-SEAL PER SK
500 GAL WFA-2 FINISH
 COMMON 190 @ 8.20 1558.00
 POZMIX _____ @ _____ _____
 GEL 3 @ 9.50 28.50
 CHLORIDE _____ @ _____ _____
 WFR-2 500 gals @ 1.00 500.00
 CFR-2 133 # @ 5.50 731.50
 Flo Seal 24 # @ 1.40 33.60
 _____ @ _____ _____
 _____ @ _____ _____
 HANDLING 190) @ 1.05 199.50
 MILEAGE 4 # SK / Mile 129.00
 TOTAL 3180.30

EQUIPMENT

PUMP TRUCK CEMENTER Shane
 # 345 HELPER Dave
 BULK TRUCK
 # 282 DRIVER Shane
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Cent-100-97-94-91-89-87
Port Collar - 44
FLOAT HELD
THANK'S

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 1080.00
 EXTRA FOOTAGE _____ @ _____ _____
 MILEAGE 17 @ 3.00 51.00
 PLUG 1-5 1/2 RUBBER @ _____ 50.00
 _____ @ _____ _____
 _____ @ _____ _____

JUL 19 1971

TOTAL 1181.00

CHARGE TO: MAT Oil Operations Inc.
 STREET _____
 CITY _____ STATE _____ ZIP _____

CONSERVATION FLOAT EQUIPMENT

WEATHERFORD
 1- Guide Snee _____ @ _____ 150.00
 1- AFU INSERT _____ @ _____ 235.00
 6- Centralizers _____ @ 50.00 300.00
 2- Baskets _____ @ 128.00 256.00
 1- Port Collar _____ @ _____ 1750.00

TOTAL 2691.00

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

ALLIED CEMENTING CO., INC.

Federal Tax I.C

15-051-250850000
SERVICE POINT: R

P.O. BOX 31
RUSSELL, KANSAS 67665

DATE <u>4/30/01</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>9:00A.m.</u>	JOB START	JOB FINISH <u>12:15p.m.</u>
LEASE <u>Warren Vine</u>	WELL # <u>1</u>	LOCATION <u>Yocemento N to Camp Clark</u>			COUNTY <u>Ellis</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)			<u>1/4 N 1/2 E T10</u>				

CONTRACTOR Rapid
 TYPE OF JOB Port Collet
 HOLE SIZE _____ T.D. _____
 CASING SIZE 5 1/2 DEPTH _____
 TUBING SIZE 2 1/2 DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL PC. DEPTH 1401
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER ORIGINAL
 CEMENT AMOUNT ORDERED 400 w/40 6% Gel 2 sand
USED 1100px

COMMON	<u>96</u>	@	<u>6.35</u>	<u>609.60</u>
POZMIX	<u>64</u>	@	<u>3.25</u>	<u>208.00</u>
GEL	<u>8</u>	@	<u>9.50</u>	<u>76.00</u>
CHLORIDE		@		
<u>Flo-sol</u>	<u>40 #</u>	@	<u>1.40</u>	<u>56.00</u>
<u>Sand</u>	<u>2</u>	@	<u>5.00</u>	<u>10.00</u>
		@		
		@		
		@		
HANDLING	<u>422</u>	@	<u>1.05</u>	<u>443.10</u>
MILEAGE	<u>44.5</u>	@	<u>6.50/mile</u>	<u>289.25</u>
TOTAL				<u>1690.85</u>

EQUIPMENT

PUMP TRUCK CEMENTER Paul
 # 153 HELPER Tabor
 BULK TRUCK
 # 361 DRIVER Doofy
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

BD @ 3000' test to 1400'.
 Spot of sand. Port Collet @ 401'.
 Opened tool. Broke circulation.
 Circulated cement w/ 100px. Displaced?
 Bll. Washed clean. Washed sand off
 Plug.

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>580.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>17</u>	@	<u>3.00</u>
PLUG		@	
		@	
		@	
TOTAL			<u>631.00</u>

CHARGE TO: Mai
 STREET _____
 CITY _____ STATE _____ ZIP _____

CONSERVATION FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

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

TOTAL _____

JUL 19 2001

15-051-25085-0000



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations I**
PO Box 33
Russell, KS 67665

ATTN: Todd Morgenstern **ORIGINAL**

27-11s-19w Ellis KS

Vine #1

Start Date: 2001.04.11 @ 19:00:00
End Date: 2001.04.12 @ 04:30:00
Job Ticket #: 14326 DST #: 1

COPIES
JUL 19
COPIES

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Mai Oil Operations I

Vine #1

27-11s-19w Ellis KS

DST #: 1

Arb.

2001.04.11



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations I
 PO Box 33
 Russell, KS 67665
 ATTN: Todd Morgenstern

Vine #1
 27-11s-19w Ellis KS
 Job Ticket: 14326 DST#: 1
 Test Start: 2001.04.11 @ 19:00:00

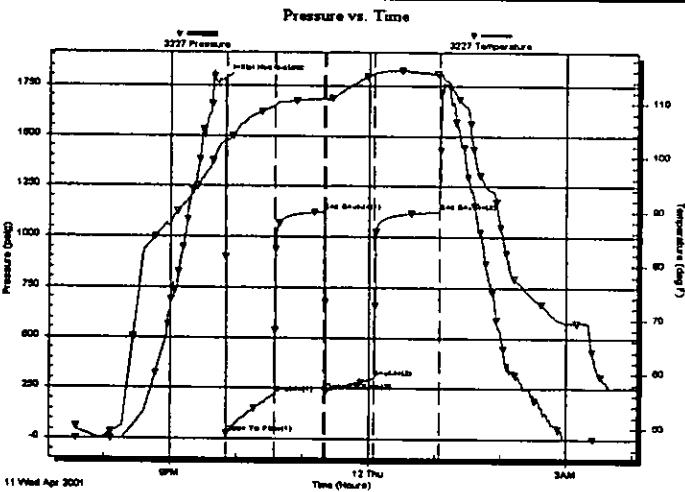
GENERAL INFORMATION:

Formation: Arb.
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:50:00
 Time Test Ended: 04:30:00
 Interval: 3591.00 ft (KB) To 3634.00 ft (KB) (TVD)
 Total Depth: 3634.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole
 Tester: John Schmidt
 Unit No: 18
 Reference Elevations: 2116.00 ft (KB)
 2111.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 3227 Inside
 Press@RunDepth: 297.97 psig @ 3597.01 ft (KB)
 Start Date: 2001.04.11 End Date: 2001.04.12 Capacity: 7000.00 psig
 Start Time: 19:34:05 End Time: 03:39:29 Last Calib.: 2001.04.12
 Time On Btm: 2001.04.11 @ 21:49:00
 Time Off Btm:

TEST COMMENT: IF-Weak To Bot. In 21 Min.
 FF-Weak To Bot. In 25 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
135	1778.80	103.00	Initial Hydro-static
136	23.58	103.00	Open To Flow (1)
180	218.20	109.60	Shut-In(1)
225	1125.86	110.89	End Shut-In(1)
226	231.06	110.83	Open To Flow (2)
270	297.97	115.50	Shut-In(2)
331	1124.09	115.48	End Shut-In(2)

Recovery

Length (ft)	Description	Volume (bbl)
660.00	Gassy Oil	4.89

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

12/07/01
 JUL 1 9
 CONSERVATION DIVISION

15-051-25085-0000



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations I

Vine #1

PO Box 33
Russell, KS 67665

27-11s-19w Ellis KS

Job Ticket: 14326

DST#: 1

ATTN: Todd Morgenstern

Test Start: 2001.04.11 @ 19:00:00

Tool Information

Drill Pipe:	Length: 3095.00 ft	Diameter: 3.80 inches	Volume: 43.41 bbl	Tool Weight: 3000.00 lb
Drill Collar:	Length: 480.00 ft	Diameter: 2.25 inches	Volume: 2.36 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
Drill Pipe Above KB:	4.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	3586.00 ft			String Weight: Initial 60000.00 lb
Depth to Bottom Packer:	ft			Final 62000.00 lb
Interval between Packers:	ft			
Tool Length:	63.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

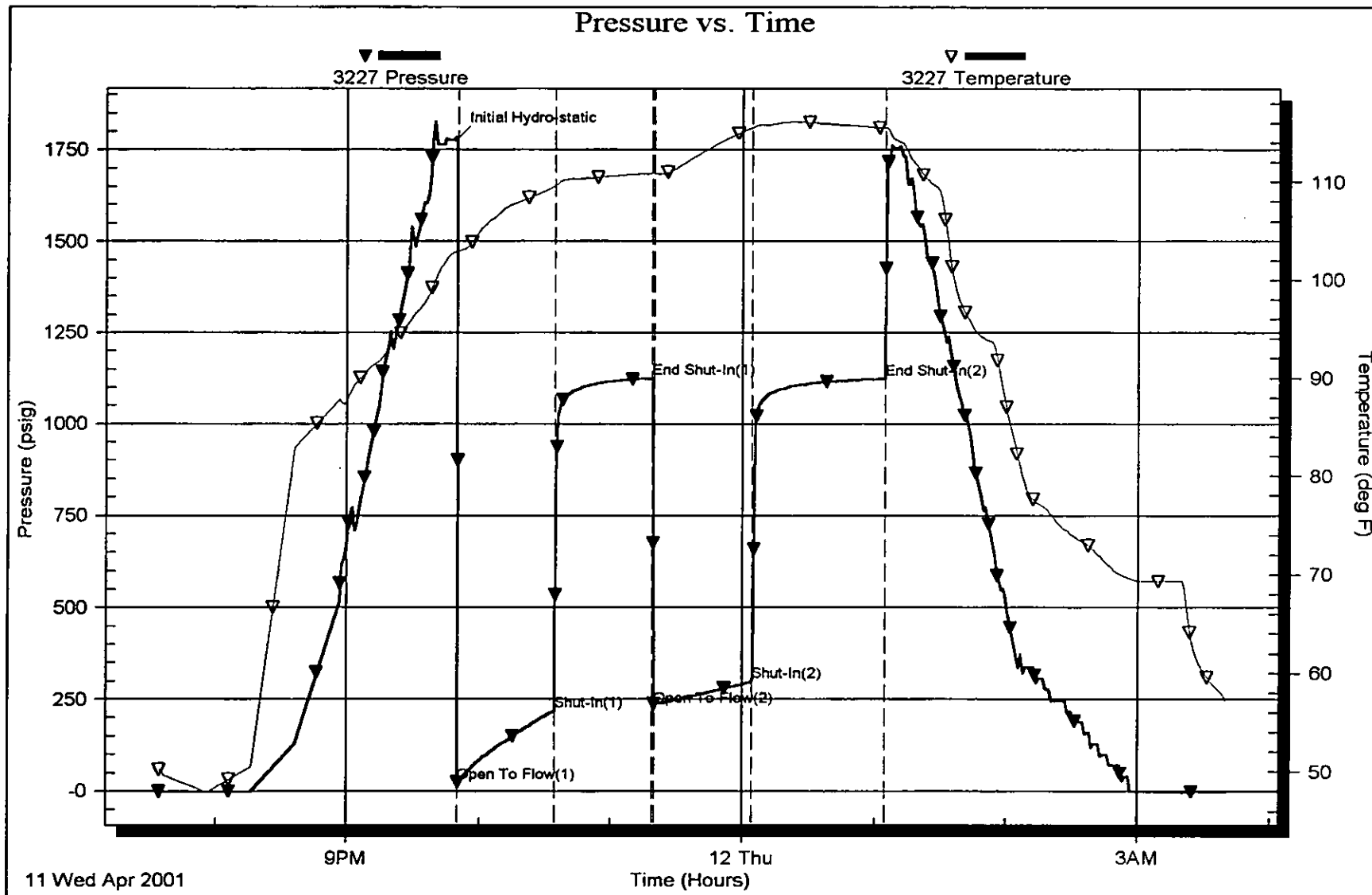
Tool Comments

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			3572.00	
S.I. Tool	5.00			3577.00	
HMV	5.00			3582.00	
Packer	4.00			3586.00	15.00 Bottom Of Top Packer
Packer	5.00			3591.00	
Stubb	1.00			3592.00	
Perforations	4.00			3596.00	
C.O. Sub	1.00			3597.00	
Recorder	0.01	3227	Inside	3597.01	
Blank Spacing	31.00			3628.01	
C.O. Sub	1.00			3629.01	
Perforations	2.00			3631.01	
Recorder	0.01	13308	Outside	3631.02	
Bullnose	3.00			3634.02	48.02 Bottom Packers & Anchor

Total Tool Length: 63.02



JUL 19 2001

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