

OPEN HOLE TEST

JOHNSTON TESTERS, INC.

13-29-19W

OFFICES: Houston, Texas - Los Angeles, California - Calgary, Canada

OPEN HOLE TEST NO. 1 WELL: F.H. Larkin #1 DATE 12-14-55
 FIELD Nichols COUNTY Kiowa STATE Kansas
 COMPANY Gulf Oil Corporation
 ADDRESS Box 225 Gt. Bend, Kansas
 TEST APPROVED BY T. Terrel
 JOHNSTON OPERATOR Wayne W. Elder TICKET NO. 38424

GENERAL TEST DATA

TYPE TEST	Conventional	TOTAL DEPTH	5052'
1. Test Interval: <u>5003'</u>	To <u>5052'</u>	7. Fluid Cushion: Type <u>None</u>	Amount
2. Tool Open	Hrs. <u>30</u> Min	8. Air Chamber Amount	- Size:
3. Initial Shut In	Hrs. Min	9. Did Packer(s) Hold?	<u>Yes</u>
4. Final Shut In	Hrs. <u>30</u> Min	10. Did Tool Plug?	<u>No</u> Where?
5. Choke: Top <u>1/2"</u>	Bottom <u>1/2"</u>	11. Was Test Reversed Out?	<u>No</u>
6. Fluid Recovery <u>30'</u> Total,			
<u>30' of Drilling Mud</u>			

REMARKS:

Elevation DF-2342' - R.B. 2345' - Drill Collars length 275', size 5 5/8.

SURFACE INFORMATION

1. Blow: Very weak for 12 mins.

2. Maximum Surface Pressure - Did Well Flow? No

Description	Or Rate of Flow	Time	Max. Pressure	Size Surface Choke
<u>Formation - Maramaton</u>				
				<u>1/2"</u>

MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA

MUD: Type Mud Weight 9.7 Viscosity 44

HOLE: Main Hole Size 7 7/8 Drill Pipe Size 4 1/2" F.H.

Rat Hole Size -

JOHNSTON TOOLS:

1. Packer(s): Type Wall O.D. 6 5/8 B.T. Type O.D.

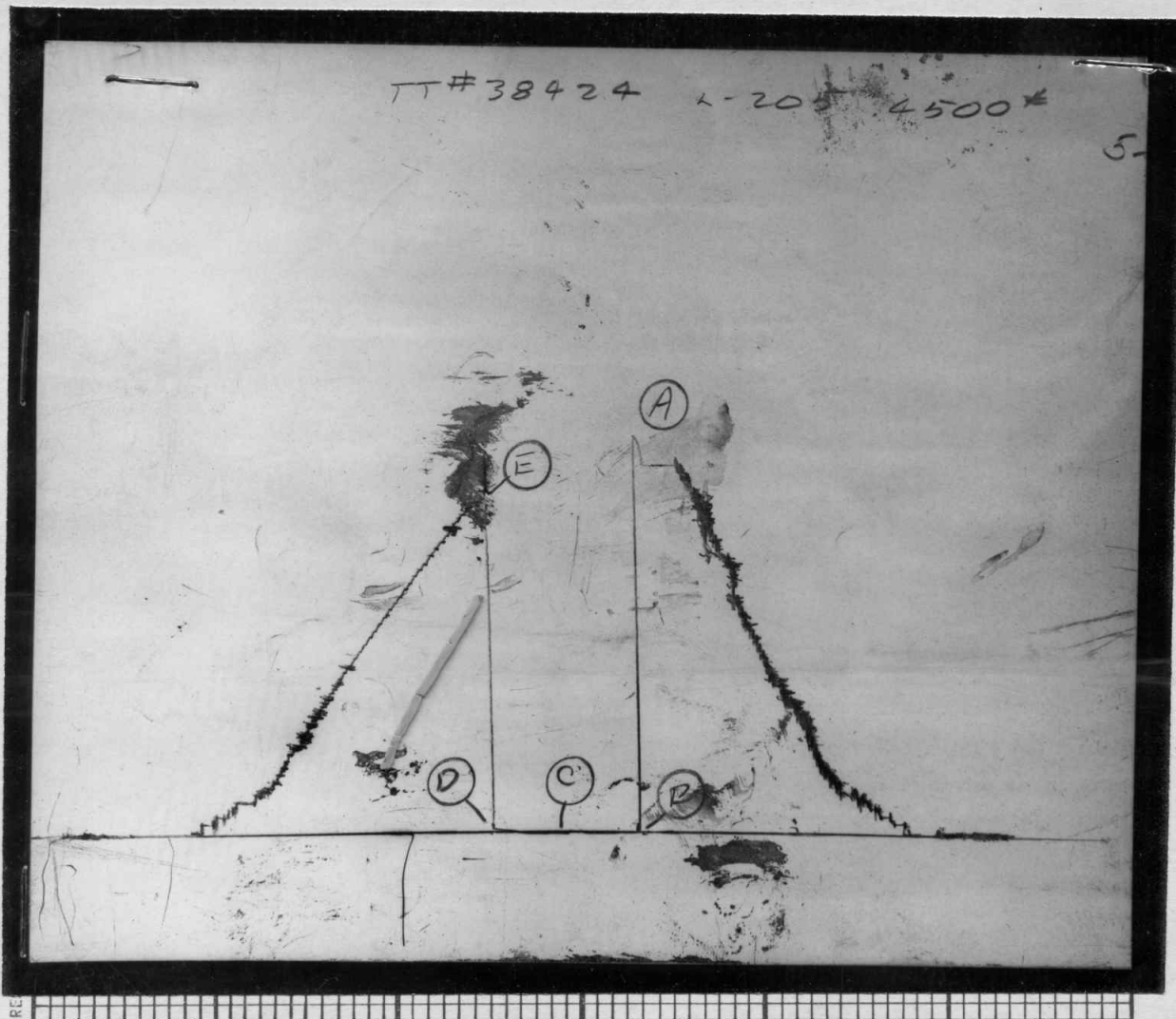
Set At 5003' Set At -

2. Extra Equipment: None

Number of Copies Requested: 5

TT # 38424 L-205 4500*

5-



PRE

TIME: EACH SMALL SQUARE _____ MINS.

Ticket No. 38424
Chart Number _____

Pressure Recorder:

No. L-205
Cap. 9500
Location _____

PRESSURE DATA

Initial Hydrostatic Mud	2685
Initial Flow	30
Final Flow	30
Final Shut-In	45
Final Hydrostatic Mud	2460
"Initial Shut-In"	

Point

Pressure

Point

Pressure

marks: BHT 134°F.

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OPEN HOLE TEST

JOHNSTON TESTERS, INC.

13-798-19W

OFFICES: Houston, Texas - Los Angeles, California - Calgary, Canada

OPEN HOLE TEST NO. 2 WELL: Larkin #1 DATE 12-16-55
 FIELD Nichols COUNTY Kiowa STATE Kansas
 COMPANY Gulf Oil Corporation
 ADDRESS Box 225 Great Bend, Kansas
 TEST APPROVED BY T. Tenel
 JOHNSTON OPERATOR Don Fletcher TICKET NO. 51763

GENERAL TEST DATA

TYPE TEST <u>Straddle</u>		TOTAL DEPTH <u>5211</u>	
1. Test Interval: <u>5134</u> To <u>5364</u>	7. Fluid Cushion: Type _____ Amount <u>None</u>		
2. Tool Open <u>1</u> Hrs. _____ Min _____	8. Air Chamber Amount _____ Size: _____		
3. Initial Shut In _____ Hrs. <u>15</u> Min _____	9. Did Packer(s) Hold? <u>Yes</u>		
4. Final Shut In _____ Hrs. <u>15</u> Min _____	10. Did Tool Plug? <u>No</u> Where? _____		
5. Choke: Top <u>1/2</u> Bottom <u>1/2</u>	11. Was Test Reversed Out? <u>No</u>		
6. Fluid Recovery <u>1131'</u> Total, _____			
<u>1131'</u> salt water			

REMARKS: Mississippian formation.
KBE 2345'

SURFACE INFORMATION

1. Blow: <u>Good through out</u>			
2. Maximum Surface Pressure <u>0</u>		Did Well Flow? <u>No</u>	
Description Or Rate of Flow	Time	Max. Pressure	Size Surface Choke
<u>1131'</u>			<u>1 1/2"</u>

MUD, HOLE, & TOOL DATA

MUD, HOLE & JOHNSTON TOOL DATA

MUD: Type <u>Starch</u>	Weight <u>9.7</u>	Viscosity <u>45</u>
HOLE: Main Hole Size <u>7 7/8</u>	Drill Pipe Size <u>4 1/2 FH</u>	
Rat Hole Size <u>None</u>		
JOHNSTON TOOLS:		
1. Packer(s): Type <u>B.T.</u>	O.D. <u>6 5/8</u>	Type <u>B.T.</u> O.D. <u>6 5/8</u>
Set At <u>5134</u>		Set At <u>5164</u>
2. Extra Equipment: <u>Jars</u>		

Number of Copies Requested: 5

D S T A N A L Y S I S R E P O R T

13-29-19w

DATE June 13, 1957 (12-16-55)

FILE NO. 12-8-1

Since the results of a test depend upon many factors and since tests are made for many purposes, the comments and conclusions below refer solely to the values of the test for pressure extrapolation by our techniques. This report is not intended to be either an endorsement or a criticism.

In the event that further analyses reveal additional information, an amended report will be submitted.

PETROLEUM RESEARCH CORPORATION

Gulf Oil Corporation			(29S - 19W) 13	
Company			Location	
Larkin			Kiowa	Kansas
Lease			County	State
#1	5134' - 5164'	#2	2345 KB	5164
Well		Test	Elevation	Gauge Depth
EXTRAPOLATED PRESSURE = 1700 ± ? psi			x	Extrapolated initial & final closed-in pressures disagree.
POTENTIOMETRIC SURFACE = 1140 ± 200 ft				Insufficient data reported.
EFFECTIVE TRANSMISS. = 167.0 md ft/cp				Chart is unusable.
AVERAGE PERMEABILITY (Viscosity estimated from reported recovery) = _____ md				Insufficient air-chamber, or leakage into air-chamber, for initial closed-in time.
PRODUCTIVITY INDEX = 0.283 B/D / psi				Initial closed-in time too short for section tested and air-chamber provided.
DAMAGE RATIO = 1.87				Closed-in pressure not taken.
DAMAGE EFFECT = _____				Formation fluid insufficiently sampled.
x Extrapolated pressure indefinite.				Possibility of nearby barrier.
x Closed-in time insufficient.				Clock slippage indicated.
Reported pressures disagree with chart.				Gauge friction indicated.
Build-up curve susceptible to mud leakage.				Tool disturbance indicated.
x Mud pressure from chart does not agree with mud pressure calculated from reported mud weight.				Plugging indicated.

51763 L-421 3000#



TIME: EACH SMALL SQUARE _____ MINS.

est Ticket No. 51763
Chart Number _____

Pressure Recorder:

No. L-421
Cap. 3000#
Location 5211

PRESSURE DATA		Point	Pressure	Point	Pressure
Initial Hydrostatic Mud	2775	A1	1980		
Initial Flow					
Final Flow					
Final Shut-In					
Final Hydrostatic Mud	2700				
"Initial Shut-In"					
Remarks:					