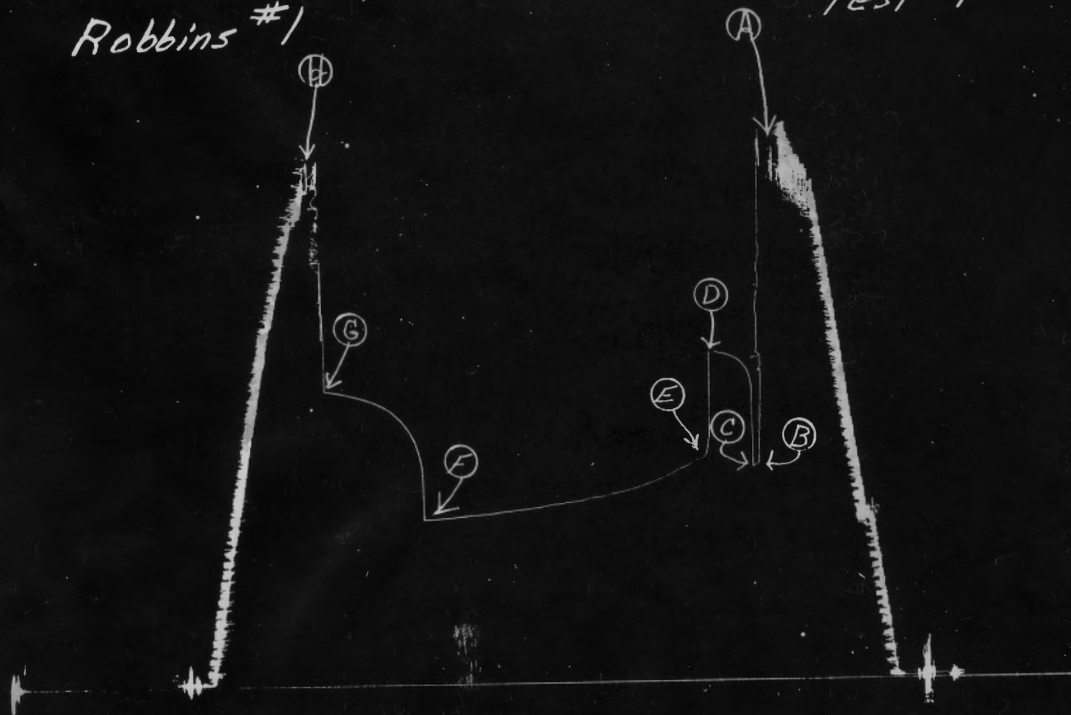


Walters Drlg Co.
Robbins #1

TKT-7912
Test #1



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud	2580 PSI
(B) First Initial Flow Pressure	1044 PSI
(C) First Final Flow Pressure	1026 PSI
(D) Initial Closed-in Pressure	1582 PSI
(E) Second Initial Flow Pressure	1168 PSI
(F) Second Final Flow Pressure	795 PSI
(G) Final Closed-in Pressure	1421 PSI
(H) Final Hydrostatic Mud	2540 PSI



Home Office: Great Bend, Kansas

P. O. Box 793

Swift 3-7903

Walters Drilling Company

Robbins #1

Company **2273 Derrick Floor** Lease & Well No. **7912**
Elevation **Mississippi** Formation **7912** Ticket Number
Date **June 26, 1967** Sec. **33** Twp. **26** Range **20** County **Edwards** State **Kansas**
Test Approved by **Don W. Beauchamp** Western Representative **Leon Elmore**

Formation Test No. **1** O.K. ☒ Misrun Interval Tested From **4763'** to **4807'** Total Depth **4807'**
Size Main Hole **7 7/8** Rat Hole ☒ Conv. ☒ B.T. Damaged Yes ☒ No Conv. B.T. ☒ Damaged Yes ☒ No
Packer Depth **4758** Ft. Size **6 3/4** Packer Depth **4763** Ft. Size **6 3/4**
Straddle Yes ☒ No Conv. B.T. Damaged Yes No
Packer Depth Ft. Size

Tool Size **5 1/2 00** Tool Jt. Size **4 1/2 FH** Anchor Length **44** Ft. Size **5 1/2 00**
RECORDERS Depth **4800** Ft. Clock No. **6894** Depth **4803** Ft. Clock No. **5665**
Top Make **Kuster** Cap. **4400** No. **2603** Inside **Outside** Bottom Make **Kuster** Cap. **4200** No. **1559** Inside **Outside**
Below Straddle: Depth Clock No. Inside **Outside** Depth Ft. Clock No. Inside **Outside**
Top Make Cap. No. Inside **Outside** Bottom Make Cap. No. Inside **Outside**

Time Set Packer **3:17 A** M
Tool Open I.F.P. From **3:19** M to **3:21** M Hr. **5** Min. From (B) **1044** P.S.I. To (C) **1026** P.S.I.
Tool Closed I.C.I.P. From **3:21** M. to **3:51** M. Hr. **30** Min. (D) **1592** P.S.I.
Tool Open F.F.P. From **3:51** M. to **6:51** M. **3** Hr. Min. From (E) **1168** P.S.I. To (F) **795** P.S.I.
Tool Closed F.C.I.P. From **6:51** M. to **7:51** M. **1** Hr. Min. (G) **1421** P.S.I.
Initial Hydrostatic Pressure (A) **2580** P.S.I. Final Hydrostatic Pressure (H) **2540** P.S.I.

SURFACE Size Choke **3/4** In. Max. Press. P.S.I. Time Description of Flow
INFORMATION **SEE ATTACHED SHEET** M.
M.
M.

BLOW **STRONG** Bottom Choke Size **3/4** In.

Did Well Flow Yes ☒ No Recovery Total Ft.

Mud
Reversed Out Yes ☒ No Mud Type **starch** Viscosity **39** Weight **9.6** Maximum Temp. **121** °F

EXTRA EQUIPMENT: Dual Packers **yes** Safety Joint **no** Jars: Size Make Ser. No.

Type Circ. Sub **plug** Did Tool Plug? **no** Where? Did Packer Hold? **yes**

Length Drill Pipe **4358** ft. I.D. Drill Pipe **3.8** in Length Weight Pipe ft. I.D. Weight Pipe in Length Drill Collars ft.

I. D. Drill Collars in Length D.S.T. Tool **64** ft.

Remarks **Gas to surface in 1/2 minute. Gauged 5,115,000**



**P. O. BOX 793
GREAT BEND, KANSAS**

COMPANY Walters Drilling Company LEASE & WELL NO. Robbins #1
TEST NO. 1 INTERVAL TESTED FROM 4763' TO 4807'

TIME PRE-FLOW	MAX PRESS. P.S.I.	DESCRIPTION OF FLOW
5 min. P.F.	18lbs	
10 F. F.	48	3,120,000
20	50	5,972,000
30	48	6,160,000
40	46	5,972,000
50	46	5,784,000
		5,784,000
"SECOND FLOW"		
60	44	5,594,000
70	43	5,498,000
80	43	5,498,000
90	43	5,498,000
100 Catch sample	42	5,402,000
110	41½	5,355,000
120	41	5,306,000
130	40	5,210,000
140	40	5,210,000
150	39	5,115,000

SIDEFACE **3/4** IN. **3/4** IN. BOTTOM

REMARKS	Gas to surface in 1/2 minute. Heavy mud spray
---------	---

in 12 minutes.

(CONTINUED NEXT PAGE.)

WESTERN TESTING CO., INC.
Pressure Data

Date **June 26, 1967** Test Ticket No. **7912**
Recorder No. **2603** Capacity **4400** Location **4800** Ft.
Clock No. **6894** Elevation **2273** **Derrick Floor** Well Temperature **121** °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2580	P.S.I.	3:17 A	
B First Initial Flow Pressure	1044	P.S.I.	5	5
C First Final Flow Pressure	1026	P.S.I.	30	27
D Initial Closed-in Pressure	1582	P.S.I.	180	178
E Second Initial Flow Pressure	1168	P.S.I.	60	62
F Second Final Flow Pressure	795	P.S.I.		
G Final Closed-in Pressure	1421	P.S.I.		
H Final Hydrostatic Mud	2540	P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 1 Inc.		Breakdown: 9 Inc.		Breakdown: 35 Inc.		Breakdown: 20 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 3 Min.		final inc. of 2 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	1044	0	1026	0	1168	0	795
P 2 5	1026	3	1471	5	1068	3	1104
P 3		6	1511	10	1053	6	1175
P 4		9	1535	15	1033	9	1215
P 5		12	1551	20	1015	12	1253
P 6		15	1562	25	993	15	1277
P 7		18	1571	30	977	18	1299
P 8		21	1577	35	960	21	1319
P 9		24	1580	40	946	24	1337
P 10		27	1582	45	935	27	1348
P 11				50	924	30	1359
P 12				55	915	33	1368
P 13				60	906	36	1377
P 14				65	900	39	1384
P 15				70	891	42	1392
P 16				75	984	45	1397
P 17				80	873	48	1405
P 18				85	866	51	1408
P 19				90	864	54	1414
P 20				95	860	57	1417
				100	853	60	1419
				105	844	62	1421
				110	842		
				115	835		
				120	833		
				125	829		
				130	824		
				135	818		
				140	816		
				145	809		

CONTINUED NEXT PAGE

Pressure Data

Abstract

Test Ticket No. _____

4800

121

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud_____	P.S.I.	Opened Tool	_____	M_____
B First Initial Flow Pressure_____	P.S.I.	First Flow Pressure	_____	Mins._____Mins.
C First Final Flow Pressure_____	P.S.I.	Initial Closed-in Pressure	_____	Mins._____Mins.
D Initial Closed-in Pressure_____	P.S.I.	Second Flow Pressure	_____	Mins._____Mins.
E Second Initial Flow Pressure_____	P.S.I.	Final Closed-in Pressure	_____	Mins._____Mins.
F Second Final Flow Pressure_____	P.S.I.			
G Final Closed-in Pressure_____	P.S.I.			
H Final Hydrostatic Mud_____	P.S.I.			

First Flow Press.

Breakdown: _____ Inc.
of _____ mins. and a
final inc. of _____ Min.

Initial Shut-In

Breakdown:_____Inc.
of_____mins. and a
final inc. of_____Min.

Second Flow Pressure

Breakdown:_____Inc.
of_____mins. and a
final inc. of_____Min.

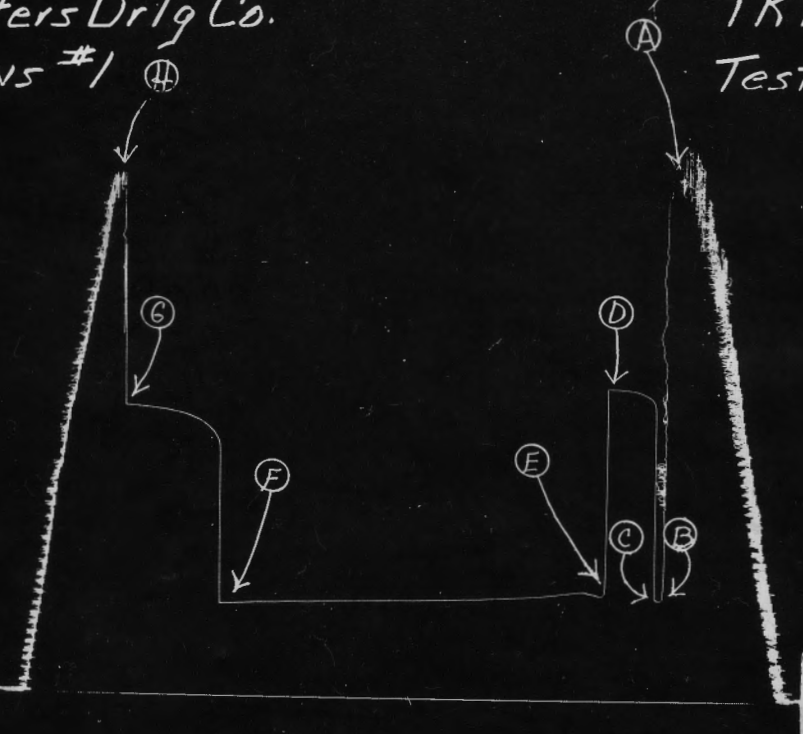
Final Shut-In

Breakdown: _____ Inc.
of _____ mins. and a
final inc. of _____ Min.

[illegible]

Walters Drlg Co.
Robbins #1

TKT-7913
Test #2



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2522	PSI
(B) First Initial Flow Pressure	482	PSI
(C) First Final Flow Pressure	487	PSI
(D) Initial Closed-in Pressure	1494	PSI
(E) Second Initial Flow Pressure	502	PSI
(F) Second Final Flow Pressure	448	PSI
(G) Final Closed-in Pressure	1395	PSI
(H) Final Hydrostatic Mud	2488	PSI



P. O. BOX 793
GREAT BEND, KANSAS

COMPANY **Walters Drilling Company** LEASE & WELL NO. **Robbins #1**

2

4807'

4822'

TEST NO. _____ INTERVAL TESTED FROM _____ TO _____

TIME	MAX PRESS. P.S.I.	DESCRIPTION OF FLOW
PRE-FLOW		
5 min. P.F.	13	2,630,000
10 F. F.	19	3,215,000
20	20	3,310,000
30	20	3,310,000
40	19 1/2	3,252,000
50	19 1/2	3,252,000
60	19	3,215,000
80	19	3,215,000
100	18	3,120,000
120	18	3,120,000
140	18	3,120,000
160	18	3,120,000
180	18	3,120,000
2 hrs.	18	3,120,000
10	18	3,120,000
10	18	3,120,000
10	18	3,120,000
10	18	3,120,000
10	18	3,120,000
10	18	3,120,000
1 hours	18	3,120,000
SIZE CHOKER	SURFACE	BOTTOM

3/4 IN.

3/4 IN.

Gas to surface in one minute.

REMARKS **Light mud spray 2 hours 10 minutes.**



TIGHT HOLE

Home Office: Great Bend, Kansas

P. O. Box 793

SWift 3-7903

Company **Walters Drilling Company** Lease & Well No. **Robbins #1**
Elevation **2273 Derrick Floor** Formation **Mississippi** Ticket Number **7913**
Date **June 27, 1967** Sec. **33** Twp. **26** Range **20** County **Edwards** State **Kansas**
Test Approved by **Don Beauchamp** Western Representative **Leon Elmore**

Formation Test No. **2** O.K. ☒ Misrun ☐ Interval Tested From **4807'** to **4822'** Total Depth **4822'**
Size Main Hole **7 7/8** Rat Hole ☐ Conv. ☒ B.T. ☐ Damaged ☒ Yes ☒ No Conv. ☐ B.T. ☒ Damaged ☒ Yes ☒ No
Packer Depth **4802** Ft. Size **6 3/4** Packer Depth **4807** Ft. Size **6 3/4**
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Packer Depth ☐ Ft. Size ☐
Tool Size **5 1/2 OD** Tool Jt. Size **4 1/2 FH** Anchor Length **15** Ft. Size **5 1/2 OD**
RECORDERS Depth **4815** Ft. Clock No. **6894** Depth **4818** Ft. Clock No. **5665**
Top Make **Kuster** Cap. **4400** No. **2603** Inside **Outside** Bottom Make **Kuster** Cap. **4200** No. **1559** Inside **Outside**
Below Straddle: Depth ☐ Clock No. ☐ Inside ☐ Outside Depth ☐ Ft. Clock No. ☐ Inside ☐ Outside
Top Make ☐ Cap. ☐ No. ☐ Inside ☐ Outside Bottom Make ☐ Cap. ☐ No. ☐ Inside ☐ Outside
Time Set Packer **7:33 P** M
Tool Open I.F.P. From **7:35** M to **7:41** M Hr. **6** Min. From (B) **482** P.S.I. To (C) **487** P.S.I.
Tool Closed I.C.I.P. From **7:41** M. to **8:11** M. Hr. **30** Min. (D) **1494** P.S.I.
Tool Open F.F.P. From **8:11** M. to **12:11** M. Hr. **4** Min. From (E) **502** P.S.I. To (F) **448** P.S.I.
Tool Closed F.C.I.P. From **12:11** M. to **1:11** M. Hr. **1** Min. (G) **1395** P.S.I.
Initial Hydrostatic Pressure (A) **2522** P.S.I. Final Hydrostatic Pressure (H) **2488** P.S.I.

SURFACE Size Choke **3/4** In. Max. Press. P.S.I. Time Description of Flow
INFORMATION ☐ M. ☐ M. ☐ M.
SEE ATTACHED SHEETS

BLOW **STRONG** Bottom Choke Size **3/4** In.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. ☐

Reversed Out ☒ Yes ☐ No Mud Type **starch** Viscosity **44** Weight **9.8** Maximum Temp. **123** °F

EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☒ Jars: Size ☐ Make ☐ Ser. No. ☐

Type Circ. Sub **plug** Did Tool Plug? ☒ Where? ☐ Did Packer Hold? ☒

Length Drill Pipe ☐ ft. I.D. Drill Pipe **3.8** Length Weight Pipe ☐ ft. I.D. Weight Pipe ☐ in. Length Drill Collars ☐ ft.

I. D. Drill Collars ☐ in. Length D.S.T. Tool **35** ft.

Remarks **Gas to surface in one minute. Gauged 3120,000**

WESTERN TESTING CO., INC.

Pressure Data

Date **June 27, 1967** Test Ticket No. **7913**

Recorder No. **2603** Capacity **4400** Location **4815** Ft.

Clock No. **6894** Elevation **2273 Derrick Floor** Well Temperature **123** °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2522 P.S.I.	7:33 P	
B First Initial Flow Pressure	482 P.S.I.	6 Mins.	5 Mins.
C First Final Flow Pressure	487 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1494 P.S.I.	240 Mins.	238 Mins.
E Second Initial Flow Pressure	502 P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	448 P.S.I.		
G Final Closed-in Pressure	1395 P.S.I.		
H Final Hydrostatic Mud	2488 P.S.I.		

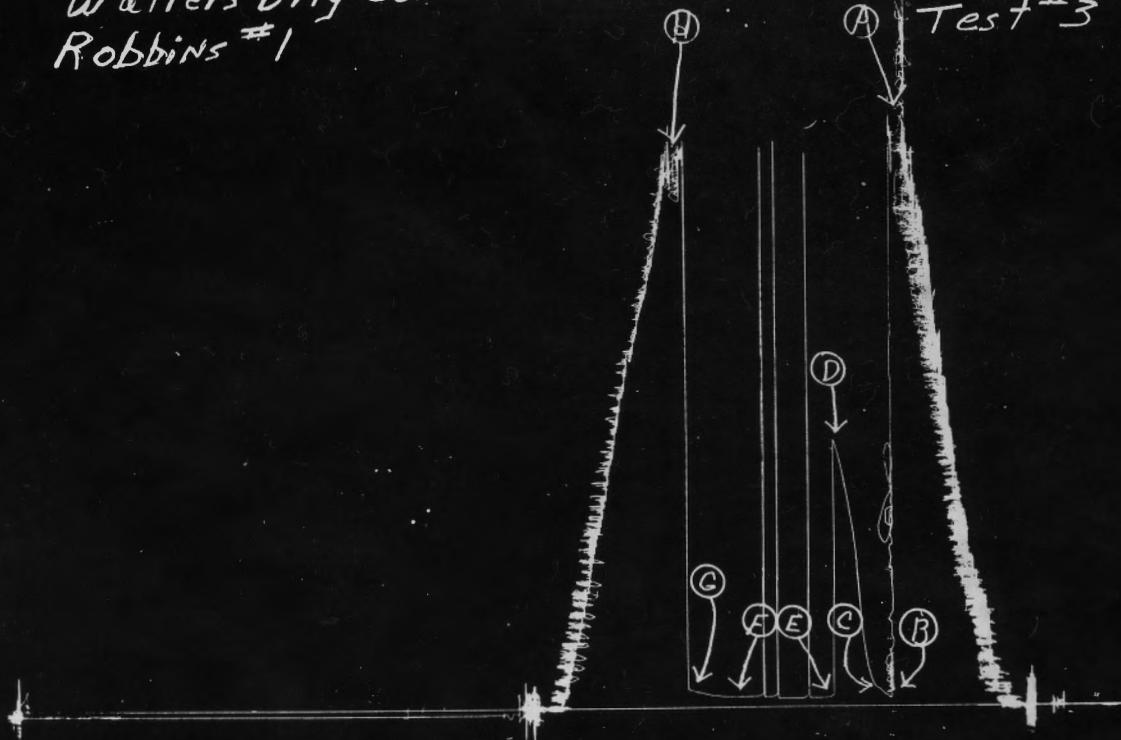
PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 1 Inc.		Breakdown: 10 Inc.		Breakdown: 49 Inc.		Breakdown: 20 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of ■ Min.		final inc. of ■ Min.		final inc. of 3 Min.		final inc. of ■ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	482	0	487	0	502	0	448
P 2 5	487	3	1444	5	506	3	1244
P 3		6	1463	10	515	6	1279
P 4		9	1473	15	519	9	1304
P 5		12	1482	20	515	12	1319
P 6		15	1486	25	511	15	1331
P 7		18	1491	30	506	18	1342
P 8		21	1491	35	502	21	1351
P 9		24	1493	40	497	24	1357
P 10		27	1494	45	494	27	1364
P 11		30	1494	50	491	30	1367
P 12				55	488	33	1372
P 13				60	486	36	1377
P 14				65	484	39	1379
P 15				70	484	42	1384
P 16				75	482	45	1386
P 17				80	479	48	1388
P 18				85	479	51	1388
P 19				90	477	54	1391
P 20				95	475	57	1393
				100	475	60	1395
				105	475		
				110	473		
				115	473		
				120	470		
				125	470		
				130	470		
				135	470		
				140	470		
				145	469		
				150	469		

CONTINUED

Walters Drlg Co.
Robbins #1

TKT 7914
Test #3



This is an actual photograph of recorder chart.

POINT	PRESSURE
(A) Initial Hydrostatic Mud	2531 PSI
(B) First Initial Flow Pressure	49 PSI
(C) First Final Flow Pressure	43 PSI
(D) Initial Closed-in Pressure	1217 PSI
(E) Second Initial Flow Pressure	46 PSI
(F) Second Final Flow Pressure	60 PSI
(G) Final Closed-in Pressure	96 PSI
(H) Final Hydrostatic Mud	2519 PSI



Home Office: Great Bend, Kansas
P. O. Box 793 SWift 3-7903

Drop

Company **Witers Drilling Company** Lease & Well No. **Robbins #1**
Elevation **2273 Derrick Floor** Formation **Mississippi** Ticker Number **7914**
Date **June 27, 1967** Sec. **33** Twp. **26** Range **20** County **Edwards** State **Kansas**
Test Approved by **Don Beauchamp** Western Representative **Leon Elmore**

Formation Test No. **3** O.K. ☒ Misrun Interval Tested From **4822'** to **4837'** Total Depth **4837'**
Size Main Hole **7 7/8** Rat Hole ☒ Conv. ☒ B.T. Damaged Yes ☒ No Conv. B.T. ☒ Damaged Yes ☒ No
Packer Depth **4817** Ft. Size **6 3/4** Packer Depth **4822** Ft. Size **6 3/4**
Straddle Yes ☒ No Conv. B.T. Damaged Yes No

Packer Depth Ft. Size
Tool Size **5 1/2 00** Tool Jt. Size **4 1/2 FH** Anchor Length **15** Ft. Size **5 1/2 00**
RECORDERS Depth **4830** Ft. Clock No. **6894** Depth **4833** Ft. Clock No. **5465**
Top Make **Kuster** Cap. **4400** No. **2603** Inside **Outside** Bottom Make **Kuster** Cap. **4300** No. **1559** **Outside**
Below Straddle: Depth Clock No. Inside **Outside** Depth Ft. Clock No. Inside **Outside**
Top Make Cap. No. Inside **Outside** Bottom Make Cap. No. Inside **Outside**

Time Set Packer **1:28 P** M
Tool Open I.F.P. From **1:30** M to **1:40** M Hr. **10** Min. From (B) **49** P.S.I. To (C) **43** P.S.I.
Tool Closed I.C.I.P. From **1:40** M. to **2:10** M. Hr. **30** Min. (D) **1217** P.S.I.
Tool Open F.F.P. From **2:10** M. to **3:15** M. Hr. **5** Min. From (E) **46** P.S.I. To (F) **60** P.S.I.
Tool Closed F.C.I.P. From **3:15** M. to **3:45** M. Hr. **30** Min. (G) **96** P.S.I.
Initial Hydrostatic Pressure (A) **2531** P.S.I. Final Hydrostatic Pressure (H) **2519** P.S.I.

SURFACE Size Choke **3/4** In. Max. Press. P.S.I. Time Description of Flow
INFORMATION M.
M.
M.

BLOW **Weak** Bottom Choke Size **3/4**.
Did Well Flow Yes ☒ No Recovery Total Ft. **45' mud; few spots of oil in top of tool.**

Mud
Reversed Out Yes ☒ No Mud Type **starch** Viscosity **44** Weight **9.8** Maximum Temp. **122** °F

EXTRA EQUIPMENT: Dual Packers **yes** Safety Joint **no** Jars: Size Make Ser. No.

Type Circ. Sub. **plug** Did Tool Plug? **no** Where? Did Packer Hold? **yes**

Length Drill Pipe **4388** ft. I.D. Drill Pipe **3.8** in Length Weight Pipe ft. I.D. Weight Pipe in Length Drill Collars ft.

I. D. Drill Collars in Length D.S.T. Tool **35** ft.

Remarks **Open tool for F. F. No blow. Flushed in 15-35 m 45 minutes. Weak blow dying.**

WESTERN TESTING CO., INC.

Pressure Data

Date **June 27, 1967** Test Ticket No. **7914**
 Recorder No. **2603** Capacity **4400** Location **4830** Ft.
 Clock No. **6894** Elevation **2273 Derrick Floor** Well Temperature **122** °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2531 P.S.I.	1:28 P M	
B First Initial Flow Pressure	49 P.S.I.	10 Mins.	10 Mins.
C First Final Flow Pressure	43 P.S.I.	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1217 P.S.I.	65 Mins.	66 Mins.
E Second Initial Flow Pressure	46 P.S.I.	30 Mins.	30 Mins.
F Second Final Flow Pressure	60 P.S.I.		
G Final Closed-in Pressure	96 P.S.I.		
H Final Hydrostatic Mud	2519 P.S.I.		

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 2 Inc.		Breakdown: 10 Inc.		Breakdown: 13 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 1 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	49	0	43	0	46	0	60
P 2 5	44	3	115	5	46	3	62
P 3 10	43	6	189	10	46	6	64
P 4		9	327	15	46	9	66
P 5		12	506	20	52	12	71
P 6		15	707	25	52	15	73
P 7		18	875	30	52	18	78
P 8		21	986	35	52	21	82
P 9		24	1088	40	57	24	85
P10		27	1170	45	57	27	90
P11		30	1217	50	60	30	96
P12				55	60		
P13				60	60		
P14				65	60		
P15				66	60		
P16							
P17							
P18							
P19							
P20							