Drill Stem Test Report

Telephone: (316) 624 - 7340

Ans. Service: (316) 624 - 6247

DEAN'S TESTERS
Inc.

P. O. Box 1182

Liberal, Kansas 67901

Quingue Operating Co.
OPERATOR

Holmes #1-29
WELL NAME & NO.

1
TEST #

4342' - 4383'
TEST INTERVAL

PHONE
316 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Toronto Type Test Bottom Hole Date June 24, 1984

Anchor Length and Size 41' x 4½" Total Depth 4383'

Packer Depths 4337' & 4342' Below Straddle

Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub

Lengths: Tool 69' D. P. 3806' ID 3.8" Wt. P. ID D. C. 508' ID 2.25"

Mud Type Chemical Vis. 38 Wt. 9.1 Wtr. Loss 14 Cl. 7,000 ppm

Recorders:

Depth 4348' Make Kuster Cap. 6525 Ser. No. 13644 Inside

Depth 4381' Make Kuster Cap. 6450 Ser. No. 6064 Outside

Depth Make Cap. Ser. No. Below Straddle

Pressures:

Tool on Bottom @ 9:45 A M. Initial Hydrostatic 2143 psi

Initial Flow 28 Min. IFP 328 psi to 332 psi slight plugging

Initial Shut-In 57 Min. ISIP 1415 psi

Final Flow 40 Min. FFP 394 psi to 420 psi

Final Shut-In 79 Min. FSIP 1415 psi

Tool off Bottom @ 1:15 P M. Final Hydrostatic 2107 psi Temp. 108

Blow: Strong throughout test. Gas to surface in 3 minutes. Oil to surface at 40 min.

Recovery:

180' Gas Cut Slightly Oil Spotted Water	95,000 PPM CL
270' Gas Cut Muddy Oil	
490' Oil	43° @ 80°

Gas Flow: Gauged at 953 MCF/D through a 1½" orifice at end of flow period.

Sampler Data:

Pressure PSI

Gas cu. ft.

Total Fluid cc

Oil cc

Water cc

Mud cc

Oil Gravity @ °F.

Gas/Oil Ratio

Remarks:

Slid tool 20' to bottom.

Tester Roy Cooper Witnessed by: L Marc Harvey

DT-10 Liberal Office Machines

SEC. 29 TWP. 34S RGE. 30W

OPERATOR Quinque Operating Co.

WELL NAME & NO. Holmes #1-29

COUNTY Meade STATE Kansas

TEST # 1

TEST INTERVAL 4342' - 4383'

TICKET NO. 2621

Ph. 316/624-7340 Mobile — 316/624-6247
Unit #935

DEAN'S TESTERS

P.O. Box 1182 Liberal, Kansas 67901

Company Quinque Operating Co. **Well** Holmes #1-29

Test # 1 **Interval** 4342' - 4383'

Method of Guage Merla 2'' Quick-Change Orifice Well Tester

Time	Guage	Orifice Size	Gas Volume MCF/D
Preflow			
10 Minutes	3 P.S.I.	1 1/2"	654
20 Minutes	4 P.S.I.	1 1/2"	764
30 Minutes	4 P.S.I.	1 1/2"	764
Final Flow			
10 Minutes	6 P.S.I.	1 1/2"	953
20 Minutes	6 P.S.I.	1 1/2"	953
30 Minutes	6 P.S.I.	1 1/2"	953

Surface Choke 1" **Bottom Choke** 5/8"

Remarks: Gas to surface in 3 minutes. Oil to surface at 40 minutes.

Pressure Break Down

Test ticket no. 2621 Recorder no. 13644 Capacity 6525 Rec. Depth. 4348'

Initial Flow pressure 328 to 332 plugging Time Given 30 Computed 28

Initial Closed in pressure 1415 60 57

Final Flow pressure 394 to 420 40 40

Final Closed-in pressure 1415 80 79

Initial Hydrostatic pressure 2143 Final Hydrostatic press. 2107 Temp 108

Initial Flow Press.

Minutes	Press
0	328
5	328
10	plugging
15	328
20	plugging
25	332
28 ~~30~~	332
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

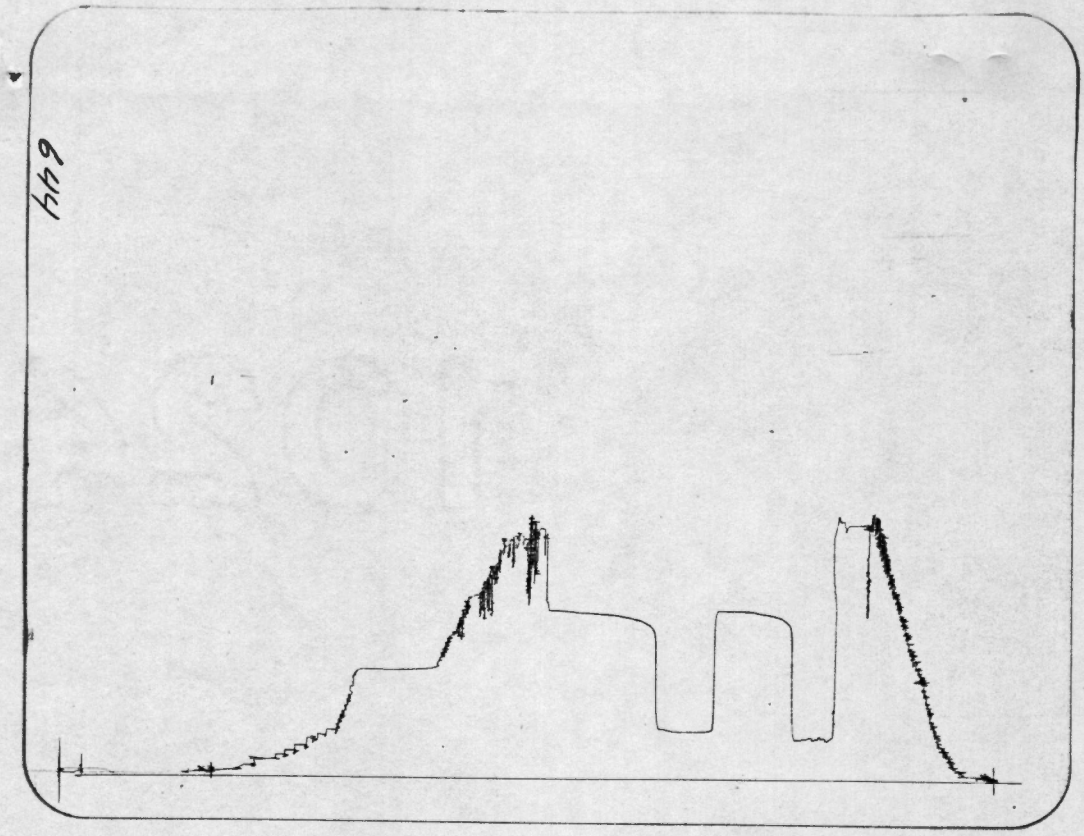
Minutes	Press
0	332
3	1300
6	1333
9	1356
12	1369
15	1379
18	1388
21	1392
24	1398
27	1408
30	1411
33	1415
36	1415
39	1415
42	1415
45	1415
48	1415
51	1415
54	1415
57	1415
60	
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

Minutes	Press
0	394
5	394
10	394
15	394
20	394
25	397
30	407
35	420
40	420
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

Final Closed in Press.

Minutes	Press
0	420
3	1274
6	1300
9	1320
12	1339
15	1343
18	1356
21	1362
24	1369
27	1375
30	1382
33	1382
36	1388
39	1388
42	1392
45	1392
48	1395
51	1395
54	1395
57	1401
60	1408
63	1408
66	1411
69	1411
72	1415
75	1415
78	1415
79 ~~81~~	1415
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	



Initial Hydrostatic 2143 psi

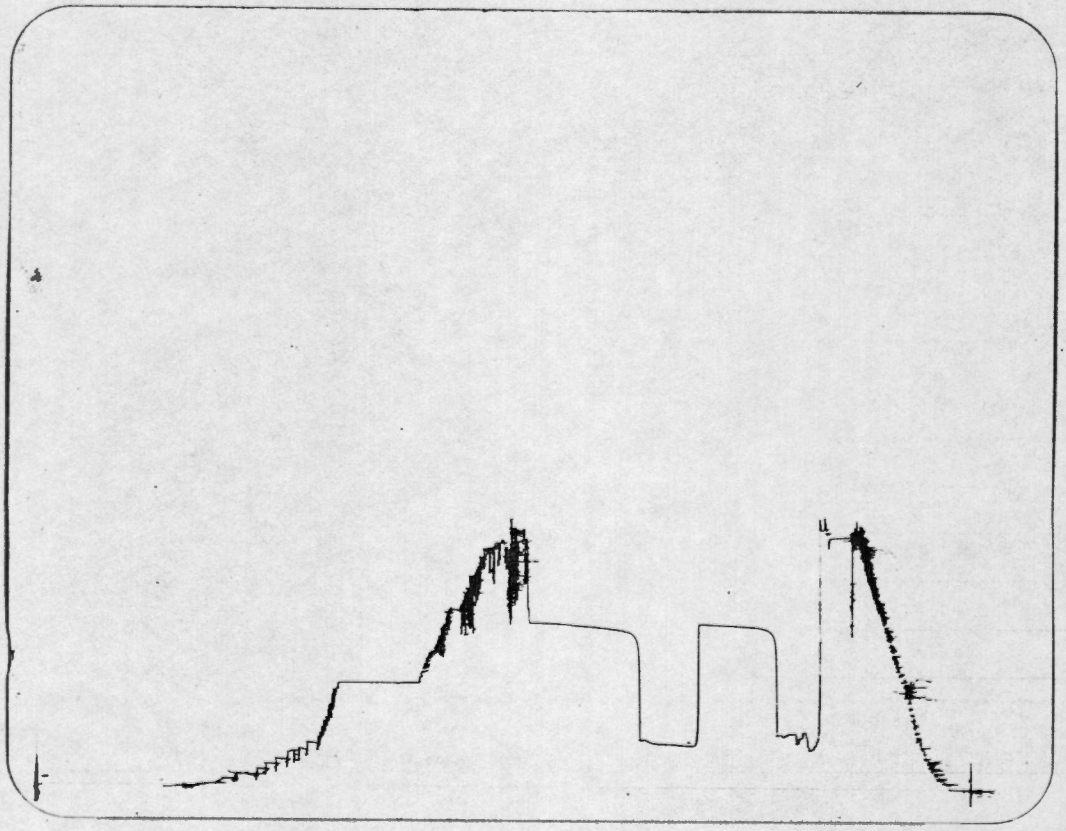
IFP 328 psi to 332 psi slight plugging

ISIP 1415 psi

FFP 394 psi to 420 psi

FSIP 1415 psi

Final Hydrostatic 2107 psi



Drill Stem Test Report

Telephone: (316) 624 - 7340

Ans. Service: (316) 624 - 6247

DEAN'S TESTERS
Inc.

P. O. Box 1182

Liberal, Kansas 67901

Quingue Operating Co.	Holmes #1-29	2	5535' - 5571'
OPERATOR	WELL NAME & NO.	TEST #	TEST INTERVAL

HONE
6 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Cherokee Type Test Bottom Hole Date June 27, 1984

Anchor Length and Size 36' x 4½" Total Depth 5571'

Packer Depths 5530' & 5535' Below Straddle

Equipment Run 2 Packers, Jars, Safety Joint, Circulating sub

Lengths: Tool 65' D. P. 4998' ID 3.8" Wt. P. ID D. C. 508' ID 2.25"

Mud Type Chemical Vis. 40 Wt. 9.2 Wtr. Loss 8 Cl. 5,000 ppm

Recorders:

Depth 5541' Make Kuster Cap. 6525 Ser. No. 13644 Inside

Depth 5569' Make Kuster Cap. 6450 Ser. No. 6064 Outside

Depth Make Cap. Ser. No. Below Straddle

Pressures:

Tool on Bottom @	7:45 P M.	Initial Hydrostatic	2697 psi		
Initial Flow	28 Min.	IFP	107 psi to	133 psi	
Initial Shut-In	58 Min.	ISIP	1581 psi		
Final Flow	58 Min.	FFP	192 psi to	188 psi	
Final Shut-In	118 Min.	FSIP	1509 psi		
Tool off Bottom @	12:15 A M.	Final Hydrostatic	2674 psi	Temp.	125

Flow: Strong throughout test. Gas to surface 35 minutes into Final Open.

Recovery:

170' Slightly Gas Cut Mud

180' Slightly Gas Cut Muddy Water

180' Slightly Gas Cut Water 122,000 PPM CL

Gas Flow: Gauged at 9.50 MCF/D through a 1/4" orifice.

Sampler Data:

Pressure PSI

Cu. Ft.

Total Fluid cc

Oil cc

Water cc

Mud cc

Gravity @ °F.

Gas/Oil Ratio

Remarks:

Tester Roy Cooper Witnessed by: L Marc Harvey

-10 Liberal Office Machines

SEC. 29 TWP. 34S RGE. 30W

Quinque Operating Co. — OPERATOR

Holmes #1-29 — WELL NAME & NO.

COUNTY Meade STATE Kansas

2 — TEST #

TICKET NO. 2622

5535' - 5571' — TEST INTERVAL

Ph. 316/624-7340 Mobile — 316/624-6247
Unit #935

DEAN'S TESTERS

P.O. Box 1182 Liberal, Kansas 67901

Company Quinque Operating **Well** Holmes #1-29

Test # 2 **Interval** 5535' - 5571'

Method of Guage Merla 2'' Quick-Change Orifice Well Tester

Time Final Flow	Guage	Orifice Size	Gas Volume MCF/D
40 Minutes	20 In. Wtr. Col.	1/4"	7.51
50 Minutes	30 In. Wtr. Col.	1/4"	9.20
60 Minutes	32 In. Wtr. Col.	1/4"	9.50

Surface Choke 1" **Bottom Choke** 5/8"

Remarks: - Gas to surface 35 minutes into Final Open.

Pressure Break Down

Test ticket no. 2622 Recorder no. 13644 Capacity 6525 Rec. Depth 5541'

Initial Flow pressure 107 to 133 Time Given 30 Computed 28

Initial Closed in pressure 1581 60 58

Final Flow pressure 192 to 188 60 58

Final Closed-in pressure 1509 120 118

Initial Hydrostatic pressure 2697 Final Hydrostatic press. 2674 Temp 125

Initial Flow Press.

Minutes	Press
0	107
5	107
10	107
15	114
20	120
25	133
28 ~~30~~	133
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

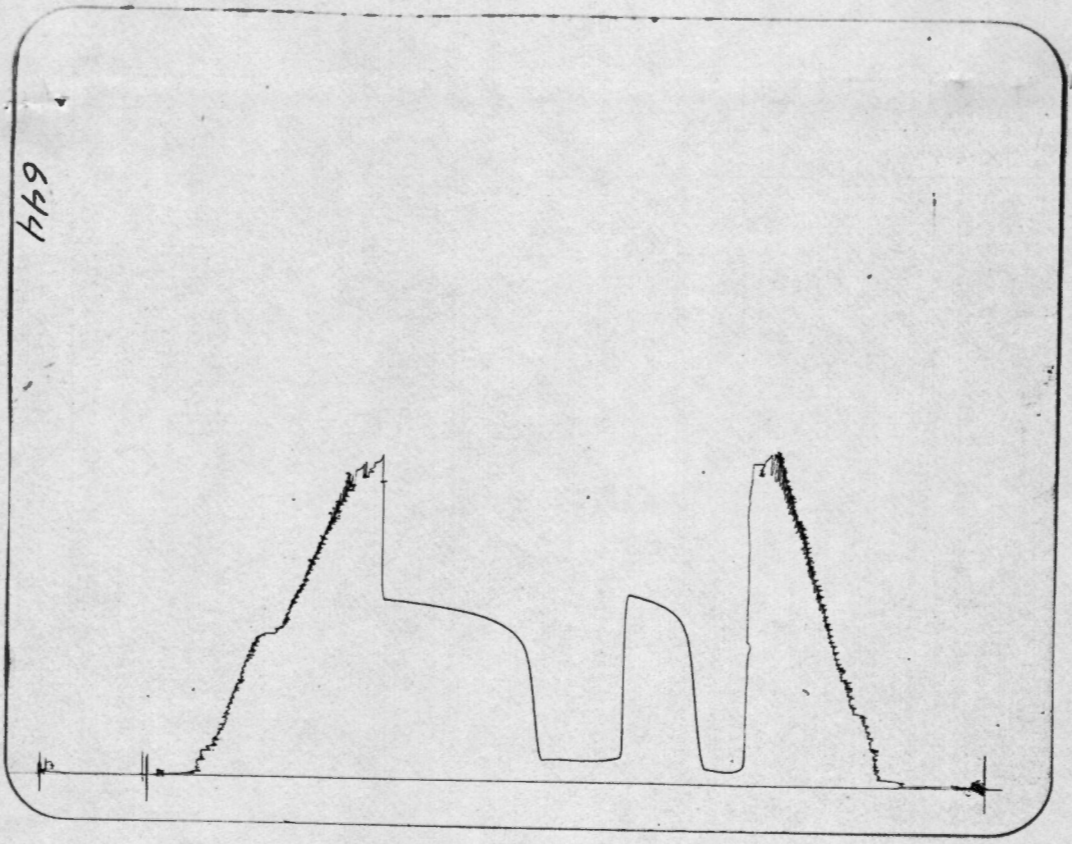
Minutes	Press
0	133
3	289
6	511
9	833
12	1120
15	1271
18	1349
21	1392
24	1428
27	1454
30	1477
33	1493
36	1509
39	1526
42	1539
45	1545
48	1558
51	1568
54	1575
57	1581
58 ~~60~~	1581
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

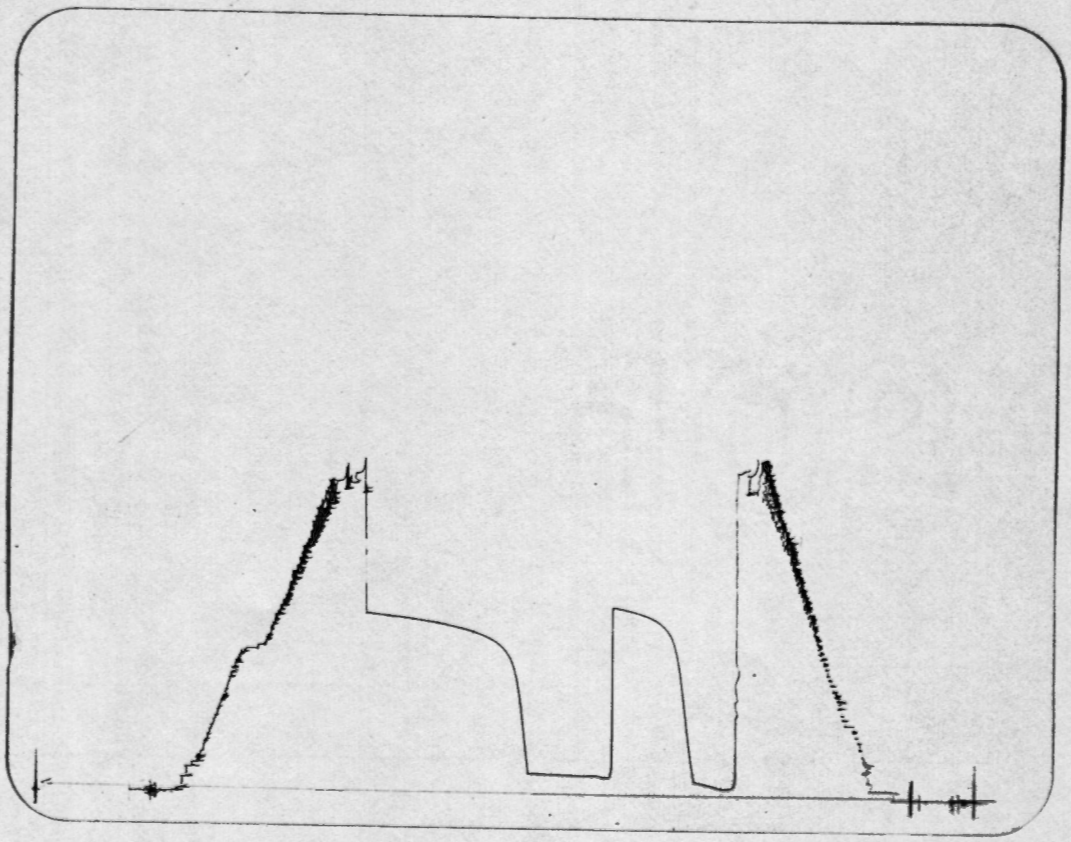
Minutes	Press
0	192
5	192
10	192
15	185
20	185
25	185
30	185
35	185
40	185
45	185
50	188
55	188
58 ~~60~~	188
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

Final Closed in Press.

Minutes	Press
0	188
3	299
6	517
9	785
12	990
15	1114
18	1176
21	1218
24	1254
27	1277
30	1300
33	1316
36	1336
39	1349
42	1366
45	1375
48	1388
51	1398
54	1408
57	1415
60	1421
63	1431
66	1434
69	1437
72	1447
75	1454
78	1457
81	1464
84	1470
87	1470
90	1477
93	1483
96	1486
99	1490
102	1493
105	1496
108	1500
111	1503
114	1506
117	1509
118 ~~120~~	1509



Initial Hydrostatic	2697			psi
IFP	107	psi to	133	psi
ISIP	1581			psi
FFP	192	psi to	188	psi
FSIP	1509			psi
Final Hydrostatic	2674			psi



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DEAN'S TESTERS
Inc.

P. O. Box 1182

Liberal, Kansas 67901

Quinque Operating Co	Holmes #1-29	3	5707' - 5780'
OPERATOR	WELL NAME & NO.	TEST #	TEST INTERVAL

PHONE
316 / 624-7340

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Kans. 67901

Formation: Morrow | Type Test: Bottom Hole | Date: June 29, 1984

Anchor Length and Size: 73' 60'x6¼" & 13'x4½" | Total Depth: 5780'

Packer Depths: 5702' & 5707' | Below Straddle:

Equipment Run: 2 Packers, Jars, Safety Joint, Circulating sub

Lengths: Tool 107' D. P. 5225' ID 3.8" Wt. P. ID D. C. 448' ID 2.25"

Mud Type: Chemical Vis. 42 Wt. 9.1 Wtr. Loss 8 Cl. 3400 ppm

Recorders:

	Depth	Make	Cap.	Ser. No.	
	5697'	Kuster	6525	13644	Inside
	5717'	Kuster	6450	6064	Outside
					Below Straddle

Pressures:

Tool on Bottom @ 2:30 A M.
Initial Flow 30 Min.
Initial Shut-in 57 Min.
Final Flow 60 Min.
Final Shut-in 117 Min.
Tool off Bottom @ 7:00 A M.

Initial Hydrostatic 2807 psi
IFP 65 psi to 42 psi
ISIP 381 psi
FFP 61 psi to 39 psi
FSIP 1310 psi
Final Hydrostatic 2788 psi Temp. 127

Blow: Weak increasing with 7" in bucket on Initial Flow. Strong on Final Flow.

Recovery: 40' Mud

Gas Flow:

Sampler Data:

Pressure PSI
Gas cu. ft.
Total Fluid cc
Oil cc
Water cc
Mud cc
Oil Gravity @ °F.
Gas/Oil Ratio

Remarks:

Tester: Roy Cooper | Witnessed by: L Marc Harvey

DT-10 Liberal Office Machines

SEC. 29 | TWP. 34S | RGE. 30W | COUNTY Meade | STATE Kansas | TICKET NO. 2623

OPERATOR: Quinque Operating Co
WELL NAME & NO.: Holmes #1-29
TEST #: 3
TEST INTERVAL: 5707' - 5780'

Pressure Break Down

Test ticket no. 2623 Recorder no. 13644 Capacity 6525 Rec. Depth. 5697'

Initial Flow pressure 65 to 42

Initial Closed in pressure 381

Final Flow pressure 61 to 39

Final Closed-in pressure 1310

Time	Given	Computed
	30	30
	60	57
	60	60
	120	117

Initial Hydrostatic pressure 2807 Final Hydrostatic press. 2788 Temp 127

Initial Flow Press.

Minutes	Press
0	65
5	61
10	48
15	42
20	42
25	42
30	42
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

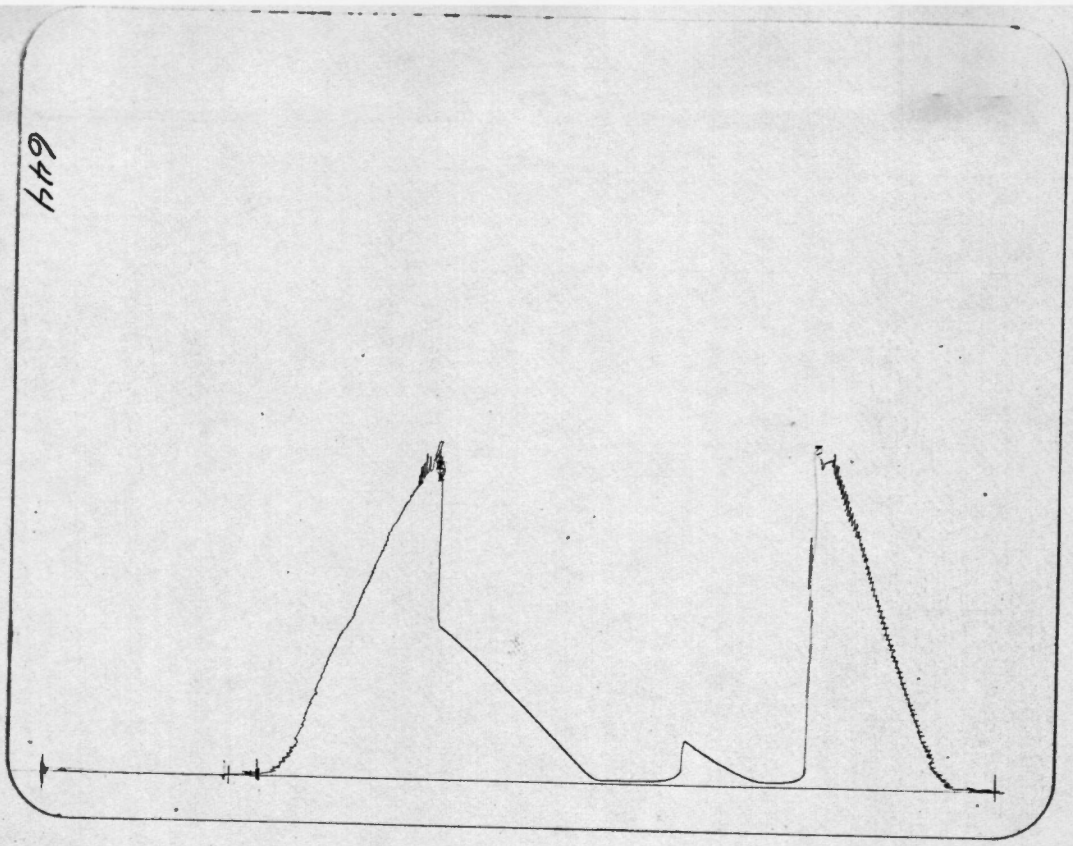
Minutes	Press
0	42
3	55
6	65
9	74
12	91
15	107
18	120
21	136
24	156
27	172
30	192
33	214
36	237
39	260
42	283
45	302
48	332
51	351
54	374
57	381
60	
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

Minutes	Press
0	61
5	61
10	45
15	39
20	39
25	39
30	39
35	39
40	39
45	39
50	39
55	39
60	39
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

Final Closed in Press.

Minutes	Press
0	39
3	45
6	71
9	97
12	130
15	166
18	201
21	237
24	270
27	309
30	348
33	384
36	420
39	456
42	485
45	521
48	560
51	599
54	635
57	664
60	700
63	736
66	768
69	804
72	837
75	869
78	902
81	938
84	973
87	1009
90	1042
93	1075
96	1104
99	1133
102	1163
105	1192
108	1225
111	1254
114	1284
117	1310
120	



Initial Hydrostatic	2807	psi		
IFP	65	psi to	42	psi
ISIP	381	psi		
FFP	61	psi to	39	psi
FSIP	1310	psi		
Final Hydrostatic	2788	psi