Company J. Mark Richardson — Lease & Well No. Brensing "B"#1

Elevation 2294 Kelly Bushing — Formation Mississippi — Effective Pay --- Ft. — Ticket No. 3569

Date 2/16/80 — Sec. 34 — Twp. 27S — Range 20W — County Kiowa — State Kansas

Test Approved by J. Mark Richardson — Western Representative Jim Wondra

Formation Test No. 1 — Interval Tested from 4858 ft. to 4870 ft. — Total Depth 4870 ft.

Packer Depth 4553 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size - in.

Packer Depth 4858 ft. — Size 6 3/4 in. — Packer Depth -- ft. — Size - in.

Depth of Selective Zone Set 0

Top Recorder Depth (Inside) 4861 ft. — Recorder Number 2607 — Cap. 4150

Bottom Recorder Depth (Outside) 4864 ft. — Recorder Number 3351 — Cap. 4000

Below Straddle Recorder Depth - ft. — Recorder Number - — Cap. -

Drilling Contractor Gabbert-Jones Drilling Rig #9 — Drill Collar Length 180 — I. D. 2¼ in.

Mud Type drispac — Viscosity 48 — Weight Pipe Length - — I. D. - in.

Weight 9.0 — Water Loss 10.4 cc. — Drill Pipe Length 4649 — I. D. 3.8 in.

Chlorides 13,000 P.P.M. — Test Tool Length 29 ft. — Tool Size 5½OD in.

Jars: Make WTC — Serial Number 410 — Anchor Length 12 ft. — Size 5½OD in.

Did Well Flow? No — Reversed Out Yes — Surface Choke Size 3/4 in. — Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. — Tool Joint Size 4½FH in.

Blow:

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of PACKER FAILURE MISRUN

Recovered ft. of

Remarks:

Time Set Packer(s) A.M. P.M. — Time Started Off Bottom A.M. P.M. — Maximum Temperature

Initial Hydrostatic Pressure ..... (A) P.S.I.

Initial Flow Period ..... Minutes (B) P.S.I. to (C) P.S.I.

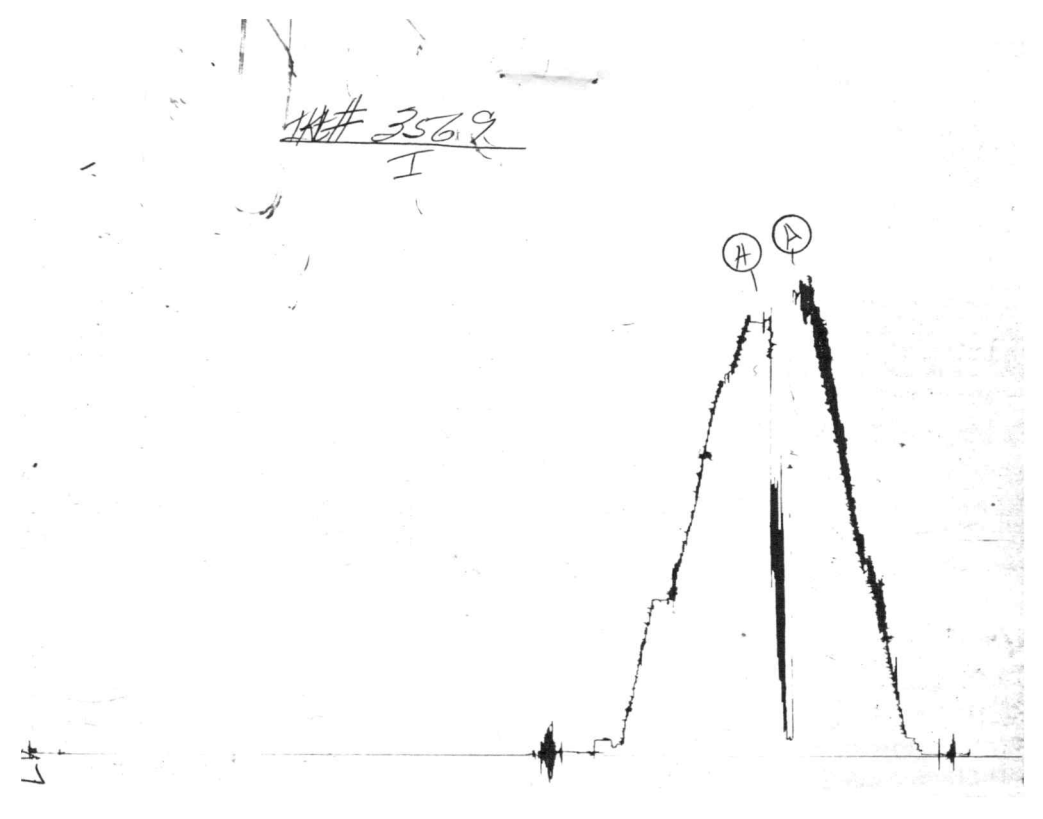
Initial Closed In Period ..... Minutes (D) P.S.I.

Final Flow Period ..... Minutes (E) P.S.I. to (F) P.S.I.

Final Closed In Period ..... Minutes (G) P.S.I.

Final Hydrostatic Pressure ..... (H) P.S.I.

HH# 3562
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Company J. Mark Richardson | Lease & Well No. Brensing "B"#1

Elevation 2294 Kelly Bushing Formation Mississippi | Effective Pay --- Ft. | Ticket No. 3570

Date 2/17/80 Sec. 34 Twp. 27S Range 20W | County Kiowa | State Kansas

Test Approved by J. Mark Richardson | Western Representative Jim Wondra

Formation Test No. 2 | Interval Tested from 4810 ft. to 4870 ft. | Total Depth 4870 ft.

Packer Depth 4797 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Packer Depth 4810 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4830 ft. | Recorder Number 2607 | Cap. 4150

Bottom Recorder Depth (Outside) 4833 ft. | Recorder Number 3351 | Cap. 4000

Below Straddle Recorder Depth - ft. | Recorder Number - | Cap. -

Drilling Contractor Gabbert-Jones Drilling Rig #9 | Drill Collar Length 180 | I. D. 2¼ in.

Mud Type drispac | Viscosity 48 | Weight Pipe Length - | I. D. - in.

Weight 9.0 | Water Loss 10.4 cc. | Drill Pipe Length 4595 | I. D. 3.8 in.

Chlorides 13,000 P.P.M. | Test Tool Length 35 ft. | Tool Size 5½OD in.

Jars: Make WTC | Serial Number 410 | Anchor Length 60 ft. | Size 5½OD in.

Did Well Flow? Yes | Reversed Out No | Surface Choke Size 3/4 in. | Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. | Tool Joint Size 4½FH in.

Blow: Strong blow throughut flow periods. Gas to surface in eighteen minutes on pre-flow. See attached sheet for gas measurements.

Recovered 210 ft. of gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:55 ~~A.M.~~ P.M. | Time Started Off Bottom 1:55 ~~A.M.~~ ~~P.M.~~ = | Maximum Temperature 127°

Initial Hydrostatic Pressure			(A) 2504 P.S.I.			
Initial Flow Period	Minutes 30	(B) 114 P.S.I.	to (C) 106 P.S.I.			
Initial Closed In Period	Minutes 30	(D) 1065 P.S.I.				
Final Flow Period	Minutes 90	(E) 108 P.S.I.	to (F) 100 P.S.I.			
Final Closed In Period	Minutes 30	(G) 664 P.S.I.				
Final Hydrostatic Pressure			(H) 2373 P.S.I.			

GAS FLOW REPORT

Date 2/17/80 Ticket 3570 Company J. Mark Richardson

Well Name and No. Brensing "B"#1 Dst No. 2 Interval Tested 4810'-4870'

County Kiowa State Kansas Sec. 34 Twp. 27S Rg. 20W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Gas to surface in eighteen minutes.						**PRE FLOW**
	20 min.	4" of water		3/4" orifice		28,300 CFPD
	25 min.	5" of water		3/4" orifice		31,600 CFPD
	30 min.	5" of water		3/4" orifice		31,600 CFPD
						SECOND FLOW
	5 min.	7" of water		3/4" orifice		37,400 CFPD
	10 min.	3" of water		3/4" orifice		24,500 CFPD
	20 min.	7" of water		1/2" orifice		16,700 CFPD
	30 min.	7" of water		1/2" orifice		16,700 CFPD
	40 min.	6" of water		1/2" orifice		15,400 CFPD
	50 min.	6" of water		1/2" orifice		15,400 CFPD
	60 min.	5" of water		1/2" orifice		14,100 CFPD
	70 min.	4" of water		1/2" orifice		12,500 CFPD
	80 min.	3" of water		1/2" orifice		10,900 CFPD
	90 min.	3" of water		1/2" orifice		10,900 CFPD

GAS BOTTLE

Serial No. ------ Date Bottle Filled ------ Date to be Invoiced 2/17/80

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME J. Mark Richardson

Authorized by J. Mark Richardson

FORM WTC 6

WESTERN TESTING CO., INC.

Pressure Data

Date 2/17/80 Test Ticket No. 3570

Recorder No. 2607 Capacity 4150 Location 4870 Ft.

Clock No. ----- Elevation 2294 Kelly Bushing Well Temperature 127 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2504	P.S.I.
B	First Initial Flow Pressure	114	P.S.I.
C	First Final Flow Pressure	106	P.S.I.
D	Initial Closed-in Pressure	1065	P.S.I.
E	Second Initial Flow Pressure	108	P.S.I.
F	Second Final Flow Pressure	100	P.S.I.
G	Final Closed-in Pressure	664	P.S.I.
H	Final Hydrostatic Mud	2373	P.S.I.

	Time Given	Time Computed
Open Tool	10:55P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	90 Mins.	90 Mins.
Final Closed-in Pressure	30 Mins.	30 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	114
P 2 5	111
P 3 10	106
P 4 15	106
P 5 20	106
P 6 25	106
P 7 30	106
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	106
3	383
6	600
9	752
12	864
15	946
18	990
21	1023
24	1042
27	1056
30	1065

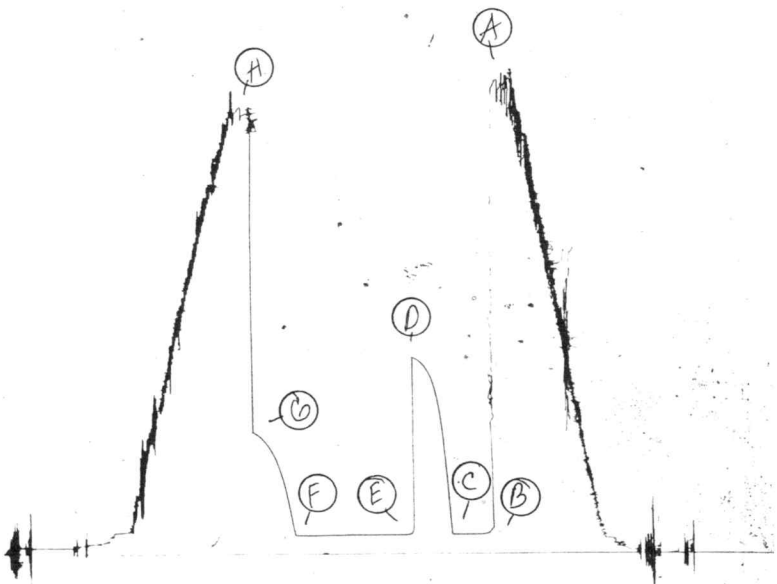
Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	108
5	104
10	104
15	104
20	104
25	104
30	104
35	104
40	104
45	104
50	104
55	102
60	102
65	102
70	100
75	100
80	100
85	100
90	100

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	100
3	210
6	311
9	402
12	466
15	527
18	569
21	602
24	625
27	648
30	664

TH# 3570
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Company J. Mark Richardson Lease & Well No. Brensing "B"#1

Elevation 2294 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 3571

Date 2/17/80 Sec. 34 Twp. 27S Range 20W County Kiowa State Kansas

Test Approved by J. Mark Richardson Western Representative Jim Wondra

Formation Test No. 3 Interval Tested from 4870 ft. to 4879 ft. Total Depth 4879 ft.

Packer Depth 4865 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4870 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4871 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4874 ft. Recorder Number 3351 Cap. 4000

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Gabbert-Jones Drilling Rig #9 Drill Collar Length 180 I. D. 2¼ in.

Mud Type drispac Viscosity 74 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 18.4 cc. Drill Pipe Length 4661 I. D. 3.8 in.

Chlorides 16,000 P.P.M. Test Tool Length 29 ft. Tool Size 5½OD in.

Jars: Make WTC Serial Number 410 Anchor Length 9 ft. Size 5½OD in.

Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8in. Tool Joint Size 4½FH in.

Blow: Strong lbow throughout flow periods. Gas to surface in five minutes on second flow. See attached sheet for gas measurements.

Recovered 140 ft. of gas cut mud (oily odor)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:00 ~~A.M.~~ P.M. Time Started Off Bottom 8:00 ~~A.M.~~ P.M. Maximum Temperature 127°

Initial Hydrostatic Pressure			(A) 2479	P.S.I.		
Initial Flow Period	Minutes 30	(B) 84	P.S.I. to	(C) 71	P.S.I.	
Initial Closed In Period	Minutes 33	(D) 1483	P.S.I.			
Final Flow Period	Minutes 90	(E) 70	P.S.I. to	(F) 69	P.S.I.	
Final Closed In Period	Minutes 30	(G) 1494	P.S.I.			
Final Hydrostatic Pressure			(H) 2413	P.S.I.		

GAS FLOW REPORT

Date 2/17/80 Ticket 3571 Company J. Mark Richardson

Well Name and No. Brensing "B"#1 Dst No. 3 Interval Tested 4870'-4879'

County Kiowa State Kansas Sec. 34 Twp. 27S Rg. 20W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
			PRE FLOW			
Gas to surface in five minutes.			**SECOND FLOW**			
	10 min.	16" of	water	1/2"	orifice	25,100 CFPD
	20 min.	23" of	water	1/2"	orifice	29,400 CFPD
	30 min.	35" of	water	1/2"	orifice	36,500 CFPD
	40 min.	16" of	water	3/4"	orifice	56,800 CFPD
	50 min.	20" of	water	3/4"	orifice	63,500 CFPD
	60 min.	28" of	water	3/4"	orifice	75,100 CFPD
	70 min.	32" of	water	3/4"	orifice	80,300 CFPD
	80 min.	38" of	water	3/4"	orifice	85,200 CFPD
	90 min.	40" of	water	3/4"	orifice	89,800 CFPD

GAS BOTTLE

Serial No. ----- Date Bottle Filled ------ Date to be Invoiced 2/17/80

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME J. Mark Richardson

Authorized by J. Mark Richardson

FORM WTC 6

WESTERN TESTING CO., INC.

Pressure Data

Date 2/17/80 Test Ticket No. 3571

Recorder No. 2607 Capacity 4150 Location 4879 Ft.

Clock No. ----- Elevation 2294 Kelly Bushing Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2479 P.S.I.	Open Tool	5:00P M	
B First Initial Flow Pressure	84 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	71 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	1483 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	70 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	69 P.S.I.			
G Final Closed-in Pressure	1494 P.S.I.			
H Final Hydrostatic Mud	2413 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	84
P 2 5	84
P 3 10	80
P 4 15	79
P 5 20	75
P 6 25	72
P 7 30	71
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	71
3	637
6	941
9	1184
12	1339
15	1412
18	1443
21	1462
24	1474
27	1479
30	1481
33	1483

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

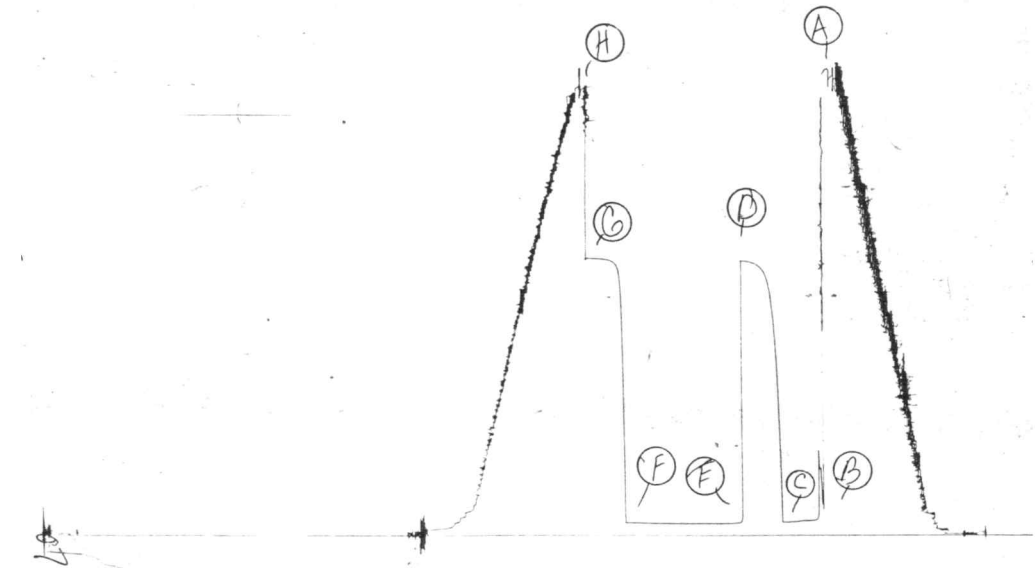
Point Minutes	Press.
0	70
5	65
10	64
15	64
20	65
25	65
30	65
35	65
40	65
45	65
50	65
55	65
60	65
65	65
70	65
75	69
80	69
85	69
90	69

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	69
3	1044
6	1414
9	1469
12	1483
15	1490
18	1494
21	1494
24	1494
27	1494
30	1494

WE #3571

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Company J. Mark Richardson | Lease & Well No. Brensing "B"#1

Elevation 2294 Kelly Bushing Formation Mississippi | Effective Pay --- Ft. | Ticket No. 3572

Date 2/18/80 | Sec. 34 | Twp. 27S | Range 20W | County Kiowa | State Kansas

Test Approved by J. Mark Richardson | Western Representative Jim Wondra

Formation Test No. 4 | Interval Tested from 4875 ft. to 4885 ft. | Total Depth 4885 ft.

Packer Depth 4870 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Packer Depth 4875 ft. | Size 6 3/4 in. | Packer Depth - ft. | Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4877 ft. | Recorder Number 2607 | Cap. 4150

Bottom Recorder Depth (Outside) 4880 ft. | Recorder Number 3351 | Cap. 4000

Below Straddle Recorder Depth - ft. | Recorder Number - | Cap. -

Drilling Contractor Gabbert-Jones Drilling Rig #9 | Drill Collar Length 240 | I. D. 2¼ in.

Mud Type drispac | Viscosity 54 | Weight Pipe Length - | I. D. - in.

Weight 9.4 | Water Loss 24.0 cc. | Drill Pipe Length 4606 | I. D. 3.8 in.

Chlorides 20,000 P.P.M. | Test Tool Length 29 ft. | Tool Size 5½OD in.

Jars: Make WTC | Serial Number 410 | Anchor Length 10 ft. | Size 5½ODin.

Did Well Flow? No | Reversed Out No | Surface Choke Size 3/4 in. | Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. | Tool Joint Size 4½FH in.

Blow: Weak increased to strong blow on first flow period. Strong blow throughout second flow period.

Recovered 210 ft. of very heavy oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:40 ~~A.M.~~ P.M. | Time Started Off Bottom 5:40 ~~A.M.~~ P.M. | Maximum Temperature 127°

Initial Hydrostatic Pressure			(A) 2403	P.S.I.		
Initial Flow Period	Minutes 30	(B) 78	P.S.I. to	(C) 83	P.S.I.	
Initial Closed In Period	Minutes 30	(D) 1406	P.S.I.			
Final Flow Period	Minutes 90	(E) 96	P.S.I. to	(F) 122	P.S.I.	
Final Closed In Period	Minutes 33	(G) 1364	P.S.I.			
Final Hydrostatic Pressure			(H) 2386	P.S.I.		

WESTERN TESTING CO., INC.

Pressure Data

Date 2/18/80 Test Ticket No. 3572

Recorder No. 2607 Capacity 4150 Location 4877 Ft.

Clock No. ---- Elevation 2294 Kelly Bushing Well Temperature 127 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2403	P.S.I.
B	First Initial Flow Pressure	78	P.S.I.
C	First Final Flow Pressure	83	P.S.I.
D	Initial Closed-in Pressure	1406	P.S.I.
E	Second Initial Flow Pressure	96	P.S.I.
F	Second Final Flow Pressure	122	P.S.I.
G	Final Closed-in Pressure	1364	P.S.I.
H	Final Hydrostatic Mud	2386	P.S.I.

	Time Given	Time Computed
Open Tool	2:40P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	90 Mins.	90 Mins.
Final Closed-in Pressure	30 Mins.	33 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	78
P 2 5	84
P 3 10	82
P 4 15	83
P 5 20	83
P 6 25	83
P 7 30	83
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	83
3	184
6	405
9	708
12	969
15	1163
18	1268
21	1332
24	1368
27	1393
30	1406

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	96
5	96
10	96
15	96
20	96
25	98
30	101
35	104
40	107
45	110
50	112
55	114
60	115
65	116
70	117
75	118
80	119
85	120
90	122

Final Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	122
3	216
6	390
9	604
12	827
15	1018
18	1146
21	1224
24	1276
27	1318
30	1343
33	1364

TK#3572
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