Company: Pickrell Drilling Company — Lease & Well No.: Bliss #5

Elevation: 1474 Kelly Bushing — Formation: Kansas City — Effective Pay: -- Ft. — Ticket No.: 4029

Date: 10/9/79 — Sec.: 3 — Twp.: 30S — Range: 7W — County: Kingman — State: Kansas

Test Approved by: Larry J. Richards — Western Representative: Bill Hager

Formation Test No.: 1 — Interval Tested from: 3713 ft. to: 3735 ft. — Total Depth: 3735 ft.

Packer Depth: 3708 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Packer Depth: 3713 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: in.

Depth of Selective Zone Set: -

Top Recorder Depth (Inside): 3726 ft. — Recorder Number: 2605 — Cap.: 4150

Bottom Recorder Depth (Outside): 3729 ft. — Recorder Number: 3354 — Cap.: 4200

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

Drilling Contractor: Pickrell Drilling — Drill Collar Length: -- — I. D.: -- in.

Mud Type: drispac — Viscosity: 42 — Weight Pipe Length: 540 — I. D.: 3.0 in.

Weight: 9.3 — Water Loss: 16.4 cc. — Drill Pipe Length: 3153 — I. D.: 3.8 in.

Chlorides: 20,000 P.P.M. — Test Tool Length: 20 ft. — Tool Size: 5½OD in.

Jars: Make: -- — Serial Number: -- — Anchor Length: 22 ft. — Size: 5½OD in.

Did Well Flow?: -- — Reversed Out: -- — 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 blow for five minutes. Flushed tool second opening.

Recovered: 5 ft. of mud

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Remarks:

Time Set Packer(s): 9:23 ~~A.M.~~ P.M. — Time Started Off Bottom: 10:33 ~~A.M.~~ P.M. — Maximum Temperature: 115°

Initial Hydrostatic Pressure ..... (A) 1839 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 33 P.S.I. to (C) 33 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 95 P.S.I.

Final Flow Period ..... Minutes 10 (E) 65 P.S.I. to (F) 46 P.S.I.

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

Final Hydrostatic Pressure ..... (H) 1803 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10/9/79 Test Ticket No. 4029

Recorder No. 2605 Capacity 4150 Location 3726 Ft.

Clock No. -- Elevation 1474 Kelly Bushing Well Temperature 115 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1839	P.S.I.
B	First Initial Flow Pressure	33	P.S.I.
C	First Final Flow Pressure	33	P.S.I.
D	Initial Closed-in Pressure	95	P.S.I.
E	Second Initial Flow Pressure	65	P.S.I.
F	Second Final Flow Pressure	46	P.S.I.
G	Final Closed-in Pressure	--	P.S.I.
H	Final Hydrostatic Mud	1803	P.S.I.

	Time Given		Time Computed	
Open Tool	9:23P	M		
First Flow Pressure	30	Mins.	30	Mins.
Initial Closed-in Pressure	30	Mins.	30	Mins.
Second Flow Pressure	10	Mins.	10	Mins.
Final Closed-in Pressure	--	Mins.	--	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	33
P 2	5	35
P 3	10	34
P 4	15	33
P 5	20	33
P 6	25	33
P 7	30	33
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	33
3	33
6	33
9	33
12	35
15	38
18	44
21	53
24	59
27	76
30	95

Second Flow Pressure
Breakdown: 2 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	65 flushed tool
5	53
10	46

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

Point Minutes	Press.

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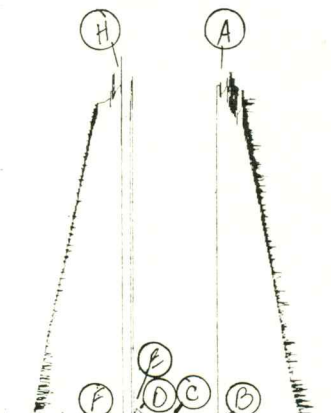

Company: Pickrell Drilling Company | Lease & Well No.: Bliss #5

Elevation: 1474 Kelly Bushing | Formation: Mississippi | Effective Pay: -- Ft. | Ticket No.: 4030

Date: 10/12/79 | Sec.: 3 | Twp.: 30S | Range: 7W | County: Kingman | State: Kansas

Test Approved by: Larry Richardson | Western Representative: Bill Hager

Formation Test No.: 2 | Interval Tested from: 4117 ft. to: 4134 ft. | Total Depth: 4134 ft.

Packer Depth: 4112 ft. | Size: 6 3/4 in. | Packer Depth: -- ft. | Size: -- in.

Packer Depth: 4117 ft. | Size: 6 3/4 in. | Packer Depth: -- ft. | Size: -- in.

Depth of Selective Zone Set: --

Top Recorder Depth (Inside): 4126 ft. | Recorder Number: 2605 | Cap.: 4150

Bottom Recorder Depth (Outside): 4129 ft. | Recorder Number: 3354 | Cap.: 4200

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

Drilling Contractor: Pickrell Drilling | Drill Collar Length: -- | I. D.: -- in.

Mud Type: drispac | Viscosity: 52 | Weight Pipe Length: 540 | I. D.: 3.0 in.

Weight: 9.3 | Water Loss: 16.0 cc. | Drill Pipe Length: 3557 | I. D.: 3.8 in.

Chlorides: 18,000 P.P.M. | Test Tool Length: 20 ft. | Tool Size: 5½OD in.

Jars: Make: -- | Serial Number: -- | Anchor Length: 17 ft. | Size: 5½OD in.

Did Well Flow?: -- | Reversed Out: -- | Surface Choke Size: 3/4 in. | Bottom Choke Size: 3/4 in.

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

Blow: Strong blow throughout test. Gas to surface in fifteen minutes second opening. See attached sheet for gas measurements.

Recovered 90 ft. of slightly oil and gas cut mud

Recovered 60 ft. of slightly oil and gas cut muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Chlorides 44,000 ppm

Time Set Packer(s): 9:30 ~~A.M.~~ P.M. | Time Started Off Bottom: 2:00 A.M. ~~P.M.~~ | Maximum Temperature: 129°

Initial Hydrostatic Pressure ..... (A) 2092 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 70 P.S.I. to (C) 49 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 674 P.S.I.

Final Flow Period ..... Minutes 90 (E) 87 P.S.I. to (F) 77 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 714 P.S.I.

Final Hydrostatic Pressure ..... (H) 2069 P.S.I.

Phone 316 262-5861
316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 10/12/79 Ticket 4030 Company Pickrell Drilling Company

Well Name and No. Bliss #5 Dst No. 2 Interval Tested 4117'-4134'

County Kingman State Kansas Sec. 3 Twp. 30S Rg. 7W

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 fifteen minutes.			**SECOND FLOW**			
	20 min.	16" of water	1/4" orifice			6,720 CFPD
	30 min.	28" of water	1/4" orifice			8,890 CFPD
	40 min.	36" of water	1/4" orifice			10,100 CFPD
	50 min.	44" of water	1/4" orifice			11,100 CFPD
	60 min.	48" of water	1/4" orifice			11,600 CFPD
	70 min.	52" of water	1/4" orifice			12,100 CFPD
	80 min.	56" of water	1/4" orifice			12,600 CFPD
	90 min.	58" of water	1/4" orifice			12,800 CFPD

GAS BOTTLE

Serial No. ----- Date Bottle Filled ------ Date to be Invoiced 10/12/79

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 1% per month, equal to 12% 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 Pickrell Drilling Company

Authorized by Larry Richardson

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 10-12-79 Test Ticket No. 4030

Recorder No. 2605 Capacity 4150 Location 4126 Ft.

Clock No. - Elevation 1474 Kelly Bushing Well Temperature 129 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2092	P.S.I.
B	First Initial Flow Pressure	70	P.S.I.
C	First Final Flow Pressure	49	P.S.I.
D	Initial Closed-in Pressure	674	P.S.I.
E	Second Initial Flow Pressure	87	P.S.I.
F	Second Final Flow Pressure	77	P.S.I.
G	Final Closed-in Pressure	714	P.S.I.
H	Final Hydrostatic Mud	2069	P.S.I.

	Time Given	Time Computed
Open Tool	9:30P. M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	90 Mins.	90 Mins.
Final Closed-in Pressure	90 Mins.	90 Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	70	0	49	0	87	0	77
P 2	5	40	3	87	5	68	3	220
P 3	10	39	6	163	10	63	6	347
P 4	15	39	9	224	15	63	9	432
P 5	20	42	12	294	20	64	12	496
P 6	25	46	15	349	25	64	15	535
P 7	30	49	18	398	30	65	18	564
P 8			21	439	35	66	21	689
P 9			24	481	40	68	24	614
P10			27	514	45	69	27	630
P11			30	541	50	70	30	641
P12			33	568	55	71	33	651
P13			36	687	60	72	36	659
P14			39	606	65	73	39	668
P15			42	620	70	73	42	675
P16			45	632	75	74	45	678
P17			48	645	80	75	48	684
P18			51	655	85	76	51	688
P19			54	664	90	77	54	692
P20			57	672			57	695
			60	674			60	697

Cont'd on next page

WESTERN TESTING CO., INC.
Pressure Data

Date 10-12-79 Test Ticket No. 4030

Recorder No. 2605 Capacity 4150 Location 4126 Ft.

Clock No. - Elevation 1474 Kelly Bushing Well Temperature 129 °F

Point	Pressure	
A Initial Hydrostatic Mud	2092	P.S.I.
B First Initial Flow Pressure	70	P.S.I.
C First Final Flow Pressure	49	P.S.I.
D Initial Closed-in Pressure	674	P.S.I.
E Second Initial Flow Pressure	87	P.S.I.
F Second Final Flow Pressure	77	P.S.I.
G Final Closed-in Pressure	714	P.S.I.
H Final Hydrostatic Mud	2069	P.S.I.

	Time Given	Time Computed
Open Tool	9:30P. M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	90 Mins.	90 Mins.
Final Closed-in Pressure	90 Mins.	90 Mins.

PRESSURE BREAKDOWN

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

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

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

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	699
P 2						66	701
P 3						69	703
P 4						72	705
P 5						75	707
P 6						78	709
P 7						81	710
P 8						84	712
P 9						87	713
P10						90	714
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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TKt # 4030
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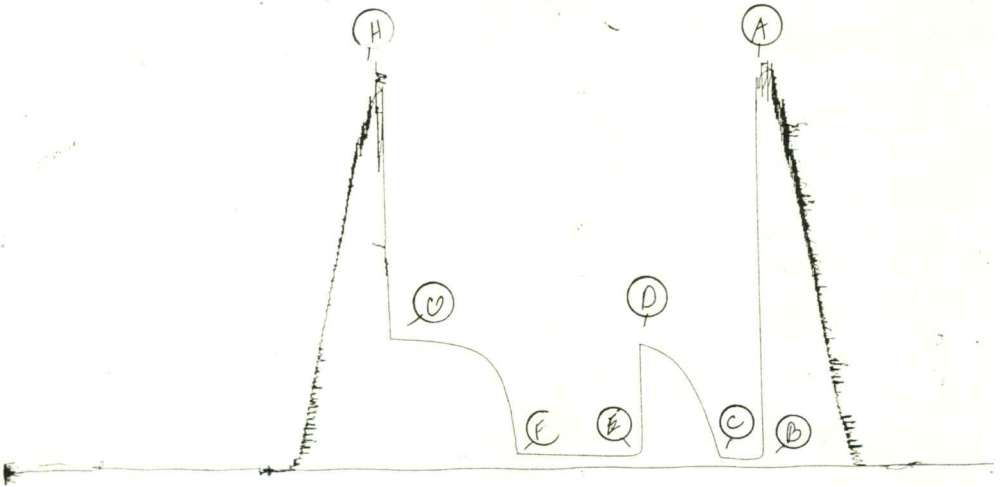

Company Pickrell Drilling Company Lease & Well No. Bliss #5

Elevation 1474 Kelly Bushing Formation Mississippi Effective Pay --- Ft. Ticket No. 4031

Date 10/12/79 Sec. 3 Twp. 30S Range 7W County Kingman State Kansas

Test Approved by Larry Richardson Western Representative Bill Hager

Formation Test No. 3 Interval Tested from 4134 ft. to 4154 ft. Total Depth 4154 ft.

Packer Depth 4129 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4134 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4143 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 4146 ft. Recorder Number 3354 Cap. 4200

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

Drilling Contractor Pickrell Drilling Company Drill Collar Length -- I. D. -- in.

Mud Type drispac Viscosity 53 Weight Pipe Length 540 I. D. 3.0 in.

Weight 9.3 Water Loss 16.2 cc. Drill Pipe Length 3564 I. D. 3.8 in.

Chlorides 18,000 P.P.M. Test Tool Length 20 ft. Tool Size 5½OD in.

Jars: Make -- Serial Number -- Anchor Length 20 ft. Size 5½OD in.

Did Well Flow? -- Reversed Out -- 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 throughout test. Gas to surface in ten minutes first opening. See attached sheet for gas measurements.

Recovered 310 ft. of clean gassy oil

Recovered 468 ft. of froggy oil

Recovered 90 ft. of water

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:30 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom 4:00 ~~A.M.~~ P.M. Maximum Temperature 129°

Initial Hydrostatic Pressure			(A) 2096	P.S.I.		
Initial Flow Period	Minutes 30	(B) 116	P.S.I. to	(C) 131	P.S.I.	
Initial Closed In Period	Minutes 60	(D) 730	P.S.I.			
Final Flow Period	Minutes 90	(E) 174	P.S.I. to	(F) 307	P.S.I.	
Final Closed In Period	Minutes 90	(G) 737	P.S.I.			
Final Hydrostatic Pressure			(H) 2059	P.S.I.		

Phone 316 262-5861
316 838-0601

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 10/12/79 Ticket 4031 Company Pickrell Drilling Company

Well Name and No. Bliss #5 Dst No. 3 Interval Tested 4134'-4154'

County Kingman State Kansas Sec. 3 Twp. 30S Rg. 7W

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 ten minutes.		**PRE FLOW**				
	20 min.	50" of water	3/4" orifice			100,000 CFPD
	30 min.	50" of water	3/4" orifice			100,000 CFPD
			SECOND FLOW			
	10 min.	62" of water	3/4" orifice			112,000 CFPD
	20 min.	48" of water	3/4" orifice			98,400 CFPD
	30 min.	48" of water	3/4" orifice			98,400 CFPD
	40 min.	48" of water	3/4" orifice			98,400 CFPD
	50 min.	46" of water	3/4" orifice			96,300 CFPD
	60 min.	38" of water	3/4" orifice			87,500 CFPD
	70 min.	38" of water	3/4" orifice			87,500 CFPD
	80 min.	38" of water	3/4" orifice			87,500 CFPD
	90 min.	26" of water	3/4" orifice			72,400 CFPD

GAS BOTTLE

Serial No. --- Date Bottle Filled ---- Date to be Invoiced 10/12/79

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 1% per month, equal to 12% 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 Pickrell Drilling Company

Authorized by Bill Hager

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 10/12/79 Test Ticket No. 4031

Recorder No. 2605 Capacity 4150 Location 4143 Ft.

Clock No. -- Elevation 1474 Kelly Bushing Well Temperature 129 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2096	P.S.I.
B	First Initial Flow Pressure	116	P.S.I.
C	First Final Flow Pressure	131	P.S.I.
D	Initial Closed-in Pressure	730	P.S.I.
E	Second Initial Flow Pressure	174	P.S.I.
F	Second Final Flow Pressure	307	P.S.I.
G	Final Closed-in Pressure	737	P.S.I.
H	Final Hydrostatic Mud	2059	P.S.I.

	Time Given	Time Computed
Open Tool	11:30A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	90 Mins.	90 Mins.
Final Closed-in Pressure	90 Mins.	90 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	116
P 2	5	93
P 3	10	89
P 4	15	93
P 5	20	110
P 6	25	125
P 7	30	131
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	131
3	519
6	622
9	670
12	693
15	703
18	709
21	714
24	717
27	719
30	721
33	723
36	725
39	726
42	727
45	728
48	730
51	730
54	730
57	730
60	730

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

Point Minutes	Press.
0	174
5	169
10	173
15	180
20	188
25	196
30	205
35	220
40	231
45	239
50	247
55	255
60	263
65	274
70	282
75	290
80	296
85	302
90	307

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	307
3	606
6	661
9	686
12	699
15	707
18	713
21	717
24	720
27	723
30	726
33	727
36	728
39	728
42	729
45	730
48	731
51	733
54	734
57	735
60	736

continued next page

WESTERN TESTING CO., INC.
Pressure Data

Date 10/12/79 Test Ticket No. 4031

Recorder No. 2605 Capacity 4150 Location 4143 Ft.

Clock No. -- Elevation 1474 Kelly Bushing Well Temperature 129 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2096	P.S.I.	Open Tool	11:30A M	
B	First Initial Flow Pressure	116	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	131	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	730	P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E	Second Initial Flow Pressure	174	P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	307	P.S.I.			
G	Final Closed-in Pressure	737	P.S.I.			
H	Final Hydrostatic Mud	2059	P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	736
P 2						66	736
P 3						69	736
P 4						72	736
P 5						75	736
P 6						78	736
P 7						81	736
P 8						84	736
P 9						87	736
P10						90	736
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKt # 4031
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