



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Mid Continent Energy Corporation Lease & Well No. Jobe #1
1827 Ground Level
Elevation 1832 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 22931
Date 3/2/79 Sec. 29 Twp. 33S Range 17W County Commanche State Kansas
Test Approved by Claud L. Sheats, Jr. Western Representative Ron Emmons

Formation Test No. 1 O.K. Misrun Yes Interval Tested From 4998' to 5105' Total Depth 5105'
Size Main Hole 7 7/8 Rat Hole Conv. X B.T. Damaged X Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 4993 Ft. Size 6 3/4 Bottom Packer Depth 4998 Ft. Size 6 3/4
Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -
Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 107 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5001 Ft. Clock No. 6896 Depth 5004 Ft. Clock No. 10112
Top Make Kuster Cap. 4000 No. 3660 Inside Outside Bottom Make Kuster Cap. 4250 No. 1051 Inside Outside
Below Straddle: Depth - Rec. No. - Clock No. - Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 1:30 P M
Tool Open I.F.P. From 1:30P M. to 1:43P M. - Hr. 13 Min. From (B) 356 P.S.I. To (C) 558 P.S.I.
Tool Closed I.C.I.P. From 1:43P M. to 2:43P M. 1 Hr. - Min (D) 1790 P.S.I.
Tool Open F.F.P. From 2:43 P M. to 3:43 M. 1 Hr. - Min. From (E) 651 P.S.I. To (F) 1408 P.S.I.
Tool Closed F.C.I.P. From 3:43P M. to 5:18 M. 1 Hr. 30 Min. (G) 1821 P.S.I.
Initial Hydrostatic Pressure (A) 2411 P.S.I. Final Hydrostatic Pressure (H) 2401 P.S.I. Maximum Temp. 127

INFORMATION

BLOW Weak to fair first period. Weak to strong second period.

Did Well Flow Yes X No Recovery Total Ft. 2923 feet mud; 589 feet gas in pipe

Reversed Out Yes No Mud Type drispac Viscosity 46 Weight 9.3+ Water Loss 12.4 cc. Chlorides 22,000

EXTRA EQUIPMENT: Type Circ. Sub. 4XH Safety Joint yes Jars: Size 4-H90 In. Make WTC Ser. No. 408

Dual Packer yes Did Packers Hold? no Did Tool Plug? - Where? -

DRILLING CONTRACTOR Slawson Rig #2 Length Drill Pipe? 4196 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe 437 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 XH In. Length Drill Collars 392 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 5 1/2 OD In. Length D.S.T. Tool 78 Ft.

Remarks: Slid tool 15 feet.

WESTERN TESTING CO., INC.
Pressure Data

Date 3/2/79 Test Ticket No. 22931
 Recorder No. 3660 Capacity 4000 Location 5001 Ft.
 Clock No. 6896 Elevation 1827 Ground Level 1832 Kelly Bushing 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2411	P.S.I.	1:30P	M
B First Initial Flow Pressure	356	P.S.I.	13	Mins. 13 Mins.
C First Final Flow Pressure	558	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1790	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	651	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	1408	P.S.I.		
G Final Closed-in Pressure	1821	P.S.I.		
H Final Hydrostatic Mud	2401	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>2</u> Inc. of <u>5</u> mins. and a final inc. of <u>3</u> Min.	Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	356	0	558	0	1408	
P 2	5	451	3	646	5	1897	
P 3	10	557	6	1213	10	1823	
P 4	13	558	9	1621	15	1843	
P 5			12	1611	20	1952	
P 6			15	1694	25	1958	
P 7			18	1689	30	1921	
P 8			21	1774	35	1885	
P 9			24	1790	40	1886	
P10			27	1780	45	1886	
P11			30	1772	50	1868	
P12			33	1768	55	1848	
P13			36	1766	60	1903	
P14			39	1766		1916	
P15			42	1766		1913	
P16			45	1770		1905	
P17			48	1775		1887	
P18			51	1779		1871	
P19			54	1783		1855	
P20			57	1787		1848	
			60	1790		1842	

WESTERN TESTING CO., INC.
Pressure Data

Date 3/2/79 Test Ticket No. 22931
 Recorder No. 3660 Capacity 4000 Location 5001 Ft.
 Clock No. 6896 Elevation 1827 Ground Level 1832 Kelly Bushing Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2411</u> P.S.I.	Open Tool	<u>1:30P</u> M	
B First Initial Flow Pressure	<u>356</u> P.S.I.	First Flow Pressure	<u>13</u> Mins.	<u>13</u> Mins.
C First Final Flow Pressure	<u>558</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1790</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>651</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>1408</u> P.S.I.			
G Final Closed-in Pressure	<u>1821</u> P.S.I.			
H Final Hydrostatic Mud	<u>2401</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 2 Inc.
 of 5 mins. and a
 final inc. of 3 Min.

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

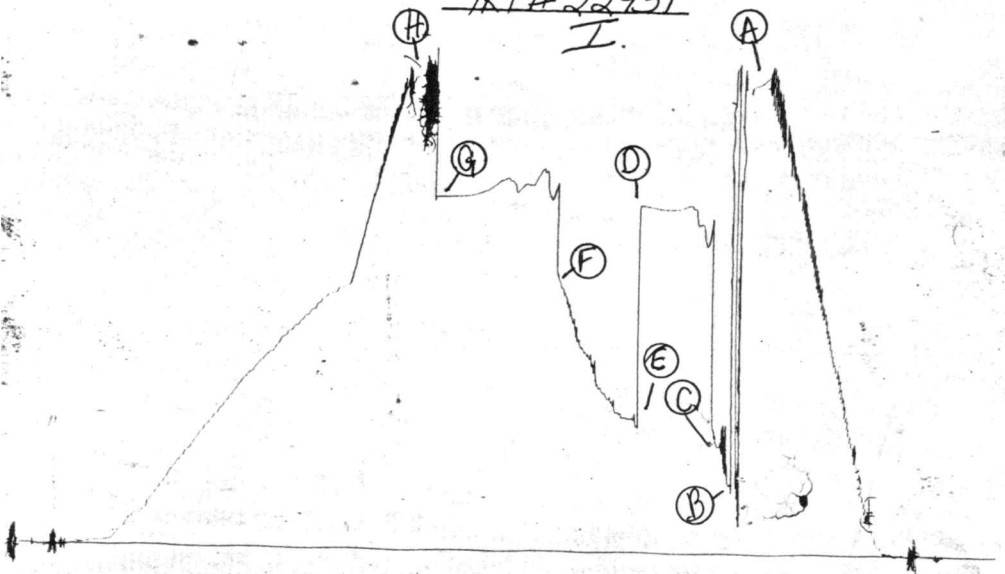
Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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	1833
P 2						66	1827
P 3						69	1825
P 4						72	1824
P 5						75	1823
P 6						78	1822
P 7						81	1821
P 8						84	1821
P 9						87	1821
P10						90	1821
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

3660.11

TK# 22931
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Company Mid Continent Energy Corporation Lease & Well No. Jobe #1
 Elevation 1832 Kelly Bushing Mississippi Formation Effective Pay -- Ft. Ticket No. 1552
 Date 3/3/79 Sec. 29 Twp. 33S Range T7W County Commanche State Kansas
 Test Approved by Claud L. Sheats, Jr. Western Representative Ron Emmons

Formation Test No. 2 Interval Tested from 4988' ft. to 5105' ft. Total Depth 5105' ft.
 Packer Depth 4983 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4988 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 5979 ft. Recorder Number 3660 Cap. 4000
 Bottom Recorder Depth (Outside) 5982 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Slawson Drilling Drill Collar Length I. D. 2 1/4 in.
 Mud Type premix Viscosity 46 Weight Pipe Length I. D. 2.7 in.
 Weight 9.3 Water Loss 12.4 cc. Drill Pipe Length I. D. 3.8 in.
 Chlorides 22,000 P.P.M. Test Tool Length 32' ~~ft.~~ Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 408 Anchor Length 117' ft. Size 5 1/2 OD in.
 Did Well Flow? No Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak to strong in two minutes first flow period. Strong blow second period.

Recovered 211 ft. of slightly gas cut mud
 Recovered 62 ft. of watery mud 55,000 ppm
 Recovered 62 ft. of muddy water 12% mud;88% water
 Recovered 3520 ft. of gas in pipe
 Recovered ft. of

Remarks:

Time Set Packer(s) 1:40 ~~A.M.~~ P.M. Time Started Off Bottom 5:30 ~~A.M.~~ P.M. Maximum Temperature 128
 Initial Hydrostatic Pressure (A) 2379 P.S.I.
 Initial Flow Period Minutes 30 (B) 154 P.S.I. to (C) 140 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1388 P.S.I.
 Final Flow Period Minutes 50 (E) 198 P.S.I. to (F) 172 P.S.I.
 Final Closed In Period Minutes 96 (G) 1635 P.S.I.
 Final Hydrostatic Pressure (H) 2359 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 3/3/79 Test Ticket No. 1552
 Recorder No. 3660 Capacity 4000 Location 5979 Ft.
 Clock No. -- Elevation 1832 Kelly Bushing Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2379 P.S.I.	Open Tool	1:40P	M
B First Initial Flow Pressure	154 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	140 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1388 P.S.I.	Second Flow Pressure	50 Mins.	50 Mins.
E Second Initial Flow Pressure	198 P.S.I.	Final Closed-in Pressure	90 Mins.	96 Mins.
F Second Final Flow Pressure	172 P.S.I.			
G Final Closed-in Pressure	1635 P.S.I.			
H Final Hydrostatic Mud	2359 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: 10 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 32 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	154	0	140	0	198	0	172
P 2 5	134	3	152	5	168	3	227
P 3 10	134	6	198	10	168	6	312
P 4 15	134	9	255	15	170	9	438
P 5 20	135	12	318	20	170	12	569
P 6 25	140	15	387	25	170	15	670
P 7 30	140	18	437	30	171	18	762
P 8		21	426	35	171	21	865
P 9		24	473	40	171	24	951
P10		27	504	45	172	27	1020
P11		30	562	50	172	30	1110
P12		33	612			33	1191
P13		36	651			36	1258
P14		39	745			39	1307
P15		42	875			42	1348
P16		45	1005			45	1386
P17		48	1114			48	1420
P18		51	1199			51	1450
P19		54	1279			54	1474
P20		57	1342			57	1493
		60	1388			60	1510

WESTERN TESTING CO., INC.
Pressure Data

Date 3/3/79 Test Ticket No. 1552
 Recorder No. 3660 Capacity 4000 Location 5979 Ft.
 Clock No. -- Elevation 1832 Kelly Bushing Well Temperature 128 °F

Point	Pressure			Time Given	Time Computed
		P.S.I.			
A Initial Hydrostatic Mud	<u>2379</u>	P.S.I.	Open Tool	<u>1:40P</u>	<u>M</u>
B First Initial Flow Pressure	<u>154</u>	P.S.I.	First Flow Pressure	<u>30</u>	<u>Mins. 30</u> Mins.
C First Final Flow Pressure	<u>140</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u>	<u>Mins. 60</u> Mins.
D Initial Closed-in Pressure	<u>1388</u>	P.S.I.	Second Flow Pressure	<u>50</u>	<u>Mins. 50</u> Mins.
E Second Initial Flow Pressure	<u>198</u>	P.S.I.	Final Closed-in Pressure	<u>90</u>	<u>Mins. 96</u> Mins.
F Second Final Flow Pressure	<u>172</u>	P.S.I.			
G Final Closed-in Pressure	<u>1635</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2359</u>	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.

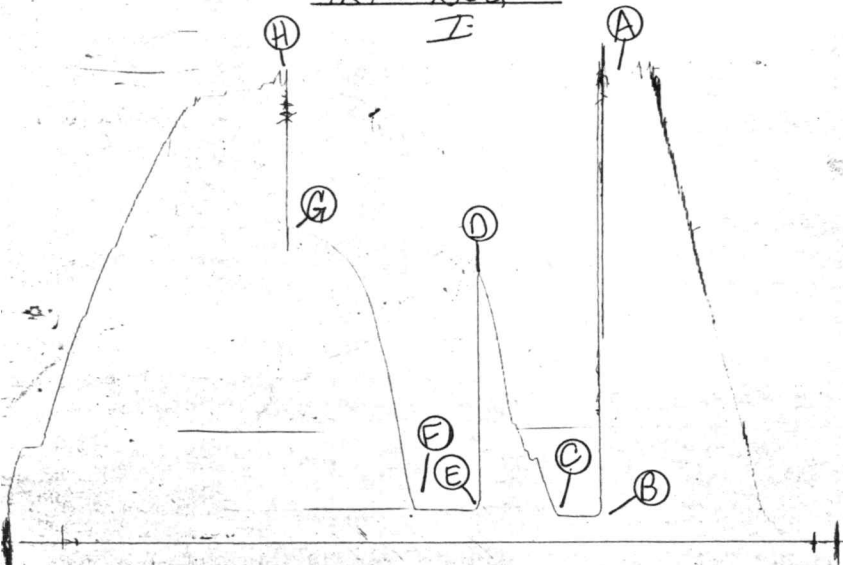
Second Flow Pressure
 Breakdown: 10 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 32 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	1527
P 2						66	1546
P 3						69	1560
P 4						72	1573
P 5						75	1581
P 6						78	1593
P 7						81	1601
P 8						84	1609
P 9						87	1617
P10						90	1625
P11						93	1633
P12						96	1635
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

3660

TK-# 1552
I:



Company Mid Continent Energy Corporation Lease & Well No. Jobe #1
 Elevation 1832 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 1553
 Date 3/4/79 Sec. 29 Twp. 33S Range 17W County Commanche State Kansas
 Test Approved by Claud Sheats Jr. Western Representative Ron Emmons

Formation Test No. 3 Interval Tested from 5103' ft. to 5130' ft. Total Depth 5130' ft.
 Packer Depth 5098 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 5103 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 5103 ft. Recorder Number 3660 Cap. 4000
 Bottom Recorder Depth (Outside) 5106 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Slawson Rig #2 Drill Collar Length 392 I. D. 2 1/4 in.
 Mud Type premix Viscosity 55 Weight Pipe Length 438 I. D. 2.7 in.
 Weight 9.8 Water Loss 19.6 cc. Drill Pipe Length 4141 I. D. 3.8 in.
 Chlorides 23,000 P.P.M. Test Tool Length 32' in. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 408 Anchor Length 27' ft. Size 5 1/2 OD in.
 Did Well Flow? No Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak to strong 10 minutes first period. Fair blow second period.

Recovered 102 ft. of mud
 Recovered 22 ft. of gas in pipe on top of fluid
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Slid tool 7 feet.

Time Set Packer(s) 9:05 A.M. Time Started Off Bottom 12:50 P.M. Maximum Temperature 128
 Initial Hydrostatic Pressure (A) 2450 P.S.I.
 Initial Flow Period Minutes 30 (B) 106 P.S.I. to (C) 73 P.S.I.
 Initial Closed In Period Minutes 60 (D) 74 P.S.I.
 Final Flow Period Minutes 35 (E) 74 P.S.I. to (F) 74 P.S.I.
 Final Closed In Period Minutes 90 (G) 78 P.S.I.
 Final Hydrostatic Pressure (H) 2442 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 3/4/79 Test Ticket No. 1553
 Recorder No. 3660 Capacity 4000 Location 5103 Ft.
 Clock No. -- Elevation 1832 Kelly Bushing Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2450 P.S.I.	Open Tool	9:05P	M
B First Initial Flow Pressure	106 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	73 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	74 P.S.I.	Second Flow Pressure	45 Mins.	35 Mins.
E Second Initial Flow Pressure	74 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	74 P.S.I.			
G Final Closed-in Pressure	78 P.S.I.			
H Final Hydrostatic Mud	2442 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	73	0	74	0	74
P 2	5	3	73	5	74	3	78
P 3	10	6	73	10	74	6	78
P 4	15	9	73	15	74	9	78
P 5	20	12	73	20	74	12	78
P 6	25	15	73	25	74	15	78
P 7	30	18	73	30	74	18	78
P 8		21	73	35	74	21	78
P 9		24	73			24	78
P10		27	73			27	78
P11		30	73			30	78
P12		33	73			33	78
P13		36	73			36	78
P14		39	73			39	78
P15		42	73			42	78
P16		45	73			45	78
P17		48	74			48	78
P18		51	74			51	78
P19		54	74			54	78
P20		57	74			57	78
		60	74			60	78

WESTERN TESTING CO., INC.
Pressure Data

Date 3/4/79 Test Ticket No. 1553
 Recorder No. 3660 Capacity 4000 Location 5103 Ft.
 Clock No. -- Elevation 1832 Kelly Bushing Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2450 P.S.I.	Open Tool	9:05P	M
B First Initial Flow Pressure	106 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	73 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	74 P.S.I.	Second Flow Pressure	45 Mins.	35 Mins.
E Second Initial Flow Pressure	74 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	74 P.S.I.			
G Final Closed-in Pressure	78 P.S.I.			
H Final Hydrostatic Mud	2442 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>30</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	78
P 2						66	78
P 3						69	78
P 4						72	78
P 5						75	78
P 6						78	78
P 7						81	78
P 8						84	78
P 9						87	78
P10						90	78
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

3660

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