

Company Mid-Continent Energy Corp. Lease & Well No. Gregg #1-32
 Elevation 1770 Kelly Bushing Formation Dennis Effective Pay - Ft. Ticket No. 3373
 Date 8-31-79 Sec. 32 Twp. 33S Range 16W County Commanche State Kansas
 Test Approved by L. Earl Moore Western Representative Dave Sloan

Formation Test No. 1 Interval Tested from 4620 ft. to 4667 ft. Total Depth 4667 ft.
 Packer Depth 4615 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4620 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4654 ft. Recorder Number 6246 Cap. 5200
 Bottom Recorder Depth (Outside) 4657 ft. Recorder Number 5673 Cap. 5400
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Venture #1 Drill Collar Length 373 I. D. 2.2 in.
 Mud Type Premix Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss - cc. Drill Pipe Length 4219 I. D. 3.3 in.
 Chlorides 15,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.
 Jars: Make W.T.C. Serial Number - Anchor Length 47 ft. Size 5 1/2 OD 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 4F.H. in.

Blow: Strong blow throughout initial flow period, decreasing during final flow period.

Recovered 670 ft. of drilling mud
 Recovered 1200 ft. of mud cut water (127,000 PPM Chlorides)
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: Working on rig final close in period, ran time over to 120 minutes.

Time Set Packer(s) 3:38 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 7:53 ~~P.M.~~ ^{A.M.} Maximum Temperature 127
 Initial Hydrostatic Pressure (A) 2157 P.S.I.
 Initial Flow Period Minutes 30 (B) 500 P.S.I. to (C) 726 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1788 P.S.I.
 Final Flow Period Minutes 45 (E) 757 P.S.I. to (F) 941 P.S.I.
 Final Closed In Period Minutes 120 (G) 1795 P.S.I.
 Final Hydrostatic Pressure (H) 2133 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8-31-79 Test Ticket No. 3373
 Recorder No. 6246 Capacity 5200 Location 4654 Ft.
 Clock No. - Elevation 1770 Kelly Bushing Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2157 P.S.I.	Open Tool	3:38 A	M
B First Initial Flow Pressure	500 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	726 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1788 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	757 P.S.I.	Final Closed-in Pressure	120 Mins.	120 Mins.
F Second Final Flow Pressure	941 P.S.I.			
G Final Closed-in Pressure	1795 P.S.I.			
H Final Hydrostatic Mud	2133 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>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	726	0	757	0	971
P 2	5	3	1560	5	785	3	1640
P 3	10	6	1676	10	814	6	1681
P 4	15	9	1705	15	843	9	1708
P 5	20	12	1724	20	872	12	1724
P 6	25	15	1738	25	896	15	1733
P 7	30	18	1749	30	919	18	1741
P 8		21	1754	35	941	21	1746
P 9		24	1760	40	956	24	1750
P10		27	1764	45	971	27	1754
P11		30	1768			30	1759
P12		33	1772			33	1762
P13		36	1775			36	1765
P14		39	1777			39	1767
P15		42	1780			42	1769
P16		45	1783			45	1770
P17		48	1784			48	1772
P18		51	1785			51	1774
P19		54	1786			54	1777
P20		57	1787			57	1779
		60	1788			60	1781

WESTERN TESTING CO., INC.
Pressure Data

Date 8-31-79 Test Ticket No. 3373
 Recorder No. 6246 Capacity 5200 Location 4654 Ft.
 Clock No. - Elevation 1770 Kelly Bushing Well Temperature 127 °F

Point	Pressure			Time	
		P.S.I.		Given	Computed
A. Initial Hydrostatic Mud	2157	P.S.I.	Open Tool	3:38 A	M
B First Initial Flow Pressure	500	P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C First Final Flow Pressure	726	P.S.I.	Initial Closed-in Pressure	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1788	P.S.I.	Second Flow Pressure	45	Mins. 45 Mins.
E Second Initial Flow Pressure	757	P.S.I.	Final Closed-in Pressure	120	Mins. 120 Mins.
F Second Final Flow Pressure	941	P.S.I.			
G Final Closed-in Pressure	1795	P.S.I.			
H Final Hydrostatic Mud	2133	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>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>40</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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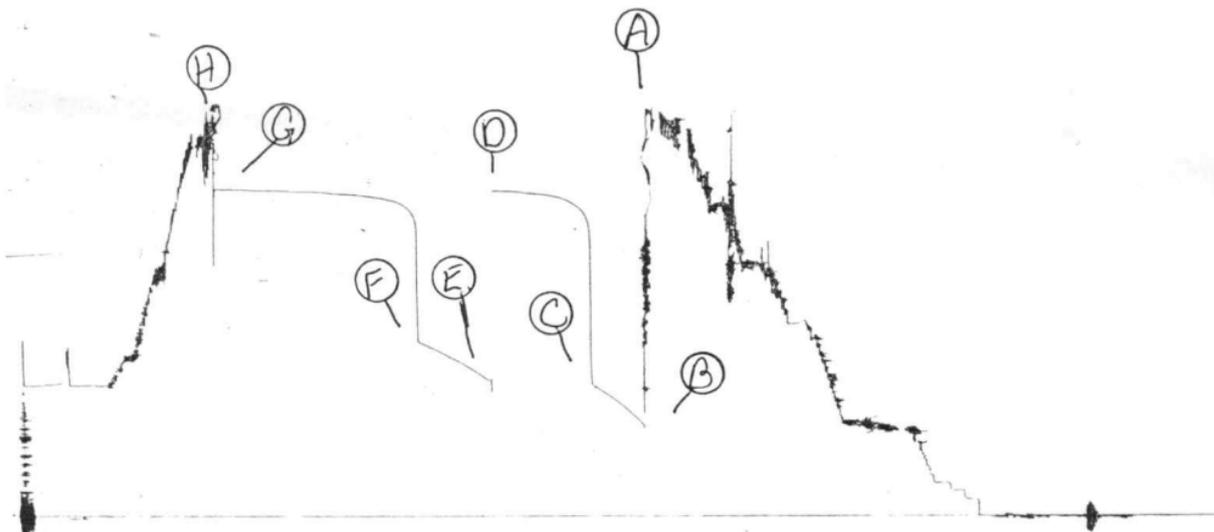
Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1							63	1781
P 2							66	1782
P 3							69	1782
P 4							72	1783
P 5							75	1783
P 6							78	1785
P 7							81	1787
P 8							84	1788
P 9							87	1789
P10							90	1790
P11							93	1791
P12							96	1792
P13							99	1793
P14							102	1794
P15							105	1794
P16							108	1794
P17							111	1795
P18							114	1795
P19							117	1795
P20							120	1795

6246

Mid continent
Gregg 1-32
DST #1

TK#3373

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Company Mid Continent Energy Corporation Lease & Well No. Gregg #1-32
 Elevation -- Formation Mississippi Effective Pay -- Ft. Ticket No. 3436
 Date 9/2/79 Sec. 32 Twp 33 Range 16W County Commanche State Kansas
 Test Approved by L. Earl Moore Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 4985 ft. to 5020 ft. Total Depth 5020 ft.
 Packer Depth 4980 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4985 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 5010 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 5013 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Venture Drilling Rig #1 Drill Collar Length 373 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 46 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 16 cc. Drill Pipe Length 4583 I. D. 3.8 in.
 Chlorides 19,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 35 ft. Size 5 1/2 OD 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 4 1/2 FH in.

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

Recovered 270 ft. of gas cut mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: Slid tool 10' after opening.

Time Set Packer(s)	<u>10:30</u>	A.M. P.M.	Time Started Off Bottom	<u>2:15</u>	A.M. P.M.	Maximum Temperature	<u>133</u>
Initial Hydrostatic Pressure			(A)	<u>2421</u>	P.S.I.		
Initial Flow Period	Minutes <u>30</u>		(B)	<u>194</u>	P.S.I. to (C)	<u>175</u>	P.S.I.
Initial Closed In Period	Minutes <u>60</u>		(D)	<u>1796</u>	P.S.I.		
Final Flow Period	Minutes <u>45</u>		(E)	<u>214</u>	P.S.I. to (F)	<u>182</u>	P.S.I.
Final Closed In Period	Minutes <u>90</u>		(G)	<u>1786</u>	P.S.I.		
Final Hydrostatic Pressure			(H)	<u>2378</u>	P.S.I.		

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 9/2/79 Ticket 3436 Company Mid Continent Energy Corporation
Well Name and No. Gregg #1-32 Dst No. 2 Interval Tested 4985'-5020'
County Commanche State Kansas Sec. 32 Twp. 33 Rg. 16W

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 three minutes. PRE FLOW						
	5 min.	40" of water	1½" orifice			440,000 CFPD
	10 min.	44" of water	1½" orifice			462,000 CFPD
	15 min.	44" of water	1½" orifice			462,000 CFPD
	20 min.	46" of water	1½" orifice			473,000 CFPD
	25 min.	46" of water	1½" orifice			473,000 CFPD
	30 min.	48" of water	1½" orifice			482,000 CFPD

SECOND FLOW						
	5 min.	58" of water	1½" orifice			530,000 CFPD
	10 min.	60" of water	1½" orifice			539,000 CFPD
	15 min.	60" of water	1½" orifice			539,000 CFPD
	20 min.	60" of water	1½" orifice			539,000 CFPD
	25 min.	62" of water	1½" orifice			549,000 CFPD
	30 min.	62" of water	1½" orifice			549,000 CFPD
	35 min.	64" of water	1½" orifice			557,000 CFPD
	40 min.	64" of water	1½" orifice			557,000 CFPD
	45 min.	64" of water	1½" orifice			557,000 CFPD

GAS BOTTLE

Serial No. 610 Date Bottle Filled 9/2/79 Date to be Invoiced 9/2/79

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 Mid Continent Energy Corporation
Authorized by L. Earl Moore

WESTERN TESTING CO., INC.
Pressure Data

Date 9/2/79 Test Ticket No. 3436
 Recorder No. 2607 Capacity 4150 Location 5010 Ft.
 Clock No. -- Elevation -- Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2421	P.S.I.	10:30P	M
B First Initial Flow Pressure	194	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	175	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1796	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	214	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	182	P.S.I.		
G Final Closed-in Pressure	1786	P.S.I.		
H Final Hydrostatic Mud	2378	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: 9 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	194	0	175	0	214	0	182
P 2 5	188	3	1228	5	197	3	808
P 3 10	178	6	1609	10	186	6	1448
P 4 15	175	9	1680	15	182	9	1620
P 5 20	175	12	1708	20	182	12	1658
P 6 25	175	15	1727	25	182	15	1689
P 7 30	175	18	1739	30	182	18	1706
P 8		21	1748	35	182	21	1714
P 9		24	1756	40	182	24	1730
P10		27	1763	45	182	27	1737
P11		30	1771			30	1744
P12		33	1774			33	1748
P13		36	1777			36	1750
P14		39	1780			39	1755
P15		42	1782			42	1758
P16		45	1784			45	1763
P17		48	1786			48	1765
P18		51	1789			51	1767
P19		54	1792			54	1769
P20		57	1794			57	1771
		60	1796			60	1773

WESTERN TESTING CO., INC.
Pressure Data

Date 9/2/79 Test Ticket No. 3436
 Recorder No. 2607 Capacity 4150 Location 5010 Ft.
 Clock No. -- Elevation -- Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2421	P.S.I.	10:30P	M
B First Initial Flow Pressure	194	P.S.I.	30	Mins. 30 Mins
C First Final Flow Pressure	175	P.S.I.	60	Mins. 60 Mins
D Initial Closed-in Pressure	1796	P.S.I.	45	Mins. 45 Mins
E Second Initial Flow Pressure	214	P.S.I.	90	Mins. 90 Mins
F Second Final Flow Pressure	182	P.S.I.		
G Final Closed-in Pressure	1786	P.S.I.		
H Final Hydrostatic Mud	2378	P.S.I.		

PRESSURE BREAKDOWN

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

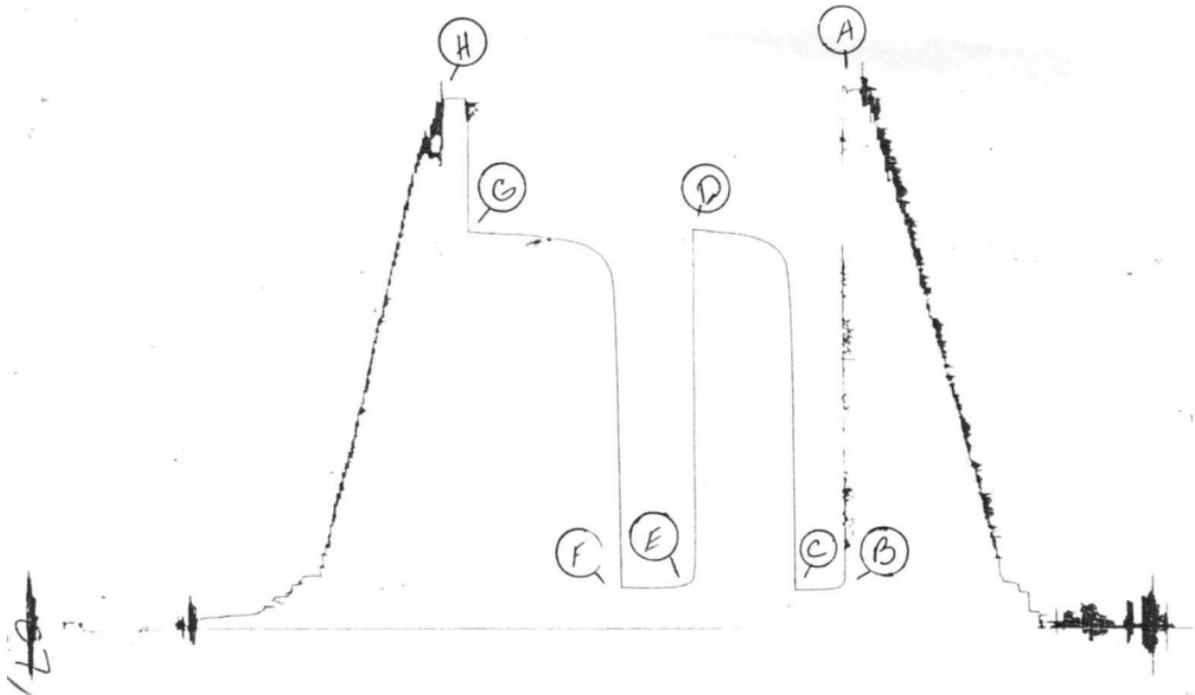
Initial Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 9 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	1773		
P 2				66	1773		
P 3				69	1773		
P 4				72	1773		
P 5				75	1773		
P 6				78	1777		
P 7				81	1779		
P 8				84	1782		
P 9				87	1784		
P10				90	1786		
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT# 3436
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Company Mid Continent Energy Corporation Lease & Well No. Gregg #1-32
 Elevation 1770 Kelly Bushing Mississippi Formation Mississippi Effective Pay -- Ft. Ticket No. 3927
 Date 9/3/79 Sec. 32 Twp 33S Range 16W County Commanche State Kansas
 Test Approved by L. Earl Moore Western Representative Roger Lisenby

Formation Test No. 3 Interval Tested from 5020 ft. to 5040 ft. Total Depth 5040 ft.
 Packer Depth 5015 ft. Size 6 3/4 in. Packer Depth 5020 ft. Size 6 3/4 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5031 ft. Recorder Number 1051 Cap. 4250
 Bottom Recorder Depth (Outside) 5034 ft. Recorder Number 969 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Venture Drilling Rig #1 Drill Collar Length 373 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 45 Weight Pipe Length - I. D. - in.
 Weight 9.0 Water Loss 17.8 cc. Drill Pipe Length 4615 I. D. 2.8 in.
 Chlorides 21,000 P.P.M. Test Tool Length 32 ft. Tool Size 4 3/4 in.
 Jars: Make WTC Serial Number 410 Anchor Length 20 ft. Size 5 1/2 in.
 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 4"FH in.

Blow: Good blow increasing from 2" in bucket to 10" first opening. Good blow, increasing to strong on bottom of bucket second opening.

Recovered 94 ft. of gas cut mud (slightly) gas cut
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 2:02 A.M. Time Started Off Bottom 5:50 A.M. Maximum Temperature 133
=P.M. P.M.
 Initial Hydrostatic Pressure 2408 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 138 P.S.I. to (C) 79 P.S.I.
 Initial Closed In Period 60 Minutes (D) 840 P.S.I.
 Final Flow Period 45 Minutes (E) 95 P.S.I. to (F) 81 P.S.I.
 Final Closed In Period 90 Minutes (G) 1093 P.S.I.
 Final Hydrostatic Pressure 2378 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 9/3/79

Test Ticket No. 3927

Recorder No. 1051 Capacity 4250 Location 5031 Ft.

Clock No. -- Elevation 1770 Kelly Bushing Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2408 P.S.I.	Open Tool	2:02A	M
B First Initial Flow Pressure	138 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	79 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	840 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	95 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	81 P.S.I.			
G Final Closed-in Pressure	1093 P.S.I.			
H Final Hydrostatic Mud	2378 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: 9 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	138	0	79	0	95	0	81
P 2	5	108	3	79	5	90	3	86
P 3	10	101	6	79	10	82	6	101
P 4	15	95	9	79	15	81	9	133
P 5	20	84	12	84	20	81	12	174
P 6	25	82	15	99	25	81	15	219
P 7	30	79	18	129	30	81	18	260
P 8			21	172	35	81	21	301
P 9			24	219	40	81	24	340
P 10			27	269	45	81	27	383
P 11			30	321			30	424
P 12			33	375			33	465
P 13			36	431			36	504
P 14			39	485			39	547
P 15			42	538			42	585
P 16			45	591			45	623
P 17			48	646			48	663
P 18			51	693			51	702
P 19			54	744			54	724
P 20			57	793			57	746
			60	840			60	810

WESTERN TESTING CO., INC.
Pressure Data

Date 9/3/79

Test Ticket No. 3927

Recorder No. 1051 Capacity 4250 Location 5031 Ft.

Clock No. -- Elevation 1770 Kelly Bushing Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2408</u> P.S.I.	Open Tool	<u>2:02A</u>	M
B First Initial Flow Pressure	<u>138</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>79</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>840</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>95</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>81</u> P.S.I.			
G Final Closed-in Pressure	<u>1093</u> P.S.I.			
H Final Hydrostatic Mud	<u>2378</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: 9 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	841		
P 2				66	880		
P 3				69	908		
P 4				72	939		
P 5				75	964		
P 6				78	990		
P 7				81	1018		
P 8				84	1041		
P 9				87	1067		
P10				90	1093		
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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