

P. O. BOX 1599

PHONE (316) 838-0601

WICHITA, KANSAS 67201

Company Texas Oil & Gas Corporation Lease & Well No. McMoran #2
 Elevation 1928 Kelly Bushing Formation Lansing Effective Pay -- Ft. Ticket No. 1765
 Date 11/5/78 Sec. 8 Twp. 35S Range 16W County Commanche State Kansas
 Test Approved by K. W. Dahlberg Western Representative Will K. Hager
 Formation Test No. 1 Interval Tested from 4633 ft. to 4660 ft. Total Depth 4660 ft.
 Packer Depth 4628 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4633 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 4643 ft. Recorder Number 1561 Cap. 3100
 Bottom Recorder Depth (Outside) 4646 ft. Recorder Number 1564 Cap. 3150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor H-30 Rig #77 Drill Collar Length 180 I. D. 2 1/4 in.
 Mud Type premix Viscosity 36 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 43.6 cc. Drill Pipe Length 4425 I. D. 3.8 in.
 Chlorides 15,000 P.P.M. Test Tool Length 55' in. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 406 Anchor Length 27' ft. Size 5 1/2 in.
 Did Well Flow? Gas 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 4 1/2 FH in.

Blow: Strong blow. Gas to surface in 20 minutes on initial opening. Strong blow on second opening
See attached sheet for gas measurements.

Recovered 2200 ft. of gas cut salt water. Top Sample: 30,000 PPM
 Recovered - ft. of - Middle Sample: 65,000 PPM
 Recovered - ft. of - Bottom Sample: 141,000 PPM
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 10:30 ~~P.M.~~ A.M. Time Started Off Bottom 2:15 ~~P.M.~~ A.M. Maximum Temperature 129
 Initial Hydrostatic Pressure - (A) 2351 P.S.I.
 Initial Flow Period - Minutes 30 (B) 350 P.S.I. to (C) 467 P.S.I.
 Initial Closed In Period - Minutes 45 (D) 1612 P.S.I.
 Final Flow Period - Minutes 60 (E) 555 P.S.I. to (F) 1014 P.S.I.
 Final Closed In Period - Minutes 90 (G) 1654 P.S.I.
 Final Hydrostatic Pressure - (H) 2328 P.S.I.



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

GAS FLOW REPORT

Date 11/5/78 Ticket 1765 Company Texas Oil & Gas Corporation
Well Name and No. McMoran #2 Dst No. 1 Interval Tested 4633'-4660'
County Comanche State Kansas Sec. 8 Twp. 35S 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
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PRE FLOW

5 min.	2½ lbs.	U tube				1,140,000 CFPD
10 min.	14" of water	U tube				537,000 CFPD
15 min.	6.5" of water	U tube				362,000 CFPD
20 min.	9" of water	1½" orifice				209,000 CFPD
25 min.	4" of water	1½" orifice				139,000 CFPD
30 min.	6" of water	1" orifice				107,000 CFPD

SECOND FLOW

5 min.	14" of water	1/2" orifice				23,700 CFPD
10 min.	10" of water	1/2" orifice				19,900 CFPD
15 min.	17" of water	1" orifice				106,000 CFPD
20 min.	9" of water	1" orifice				77,500 CFPD
25 min.	4.5" of water	1" orifice				54,700 CFPD
30 min.	4" of water	1" orifice				51,600 CFPD
35 min.	10" of water	3/4" orifice				44,800 CFPD
40 min.	10" of water	3/4" orifice				44,800 CFPD
45 min.	9" of water	3/4" orifice				42,500 CFPD
50 min.	7" of water	3/4" orifice				37,400 CFPD
55 min.	7" of water	3/4" orifice				37,400 CFPD
60 min.	8" of water	3/4" orifice				40,000 CFPD

GAS BOTTLE

Serial No. ----- Date Bottle Filled ----- Date to be Invoiced 11/5/78

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 Texas Oil & Gas Corporation

K. W. Dahlberg

Authorized by -----

WESTERN TESTING CO., INC.

Pressure Data

Date 11/5/78 Recorder No. 1561 Capacity 3100 Test Ticket No. 1765
 Clock No. -- Elevation 1928 Kelly Bushing Location 4643 Ft
 Well Temperature 129 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2351	P.S.I.	10:30A	M
B First Initial Flow Pressure	350	P.S.I.	30	Mins.
C First Final Flow Pressure	467	P.S.I.	45	Mins.
D Initial Closed-in Pressure	1612	P.S.I.	60	Mins.
E Second Initial Flow Pressure	555	P.S.I.	90	Mins.
F Second Final Flow Pressure	1014	P.S.I.		
G Final Closed-in Pressure	1654	P.S.I.		
H Final Hydrostatic Mud	2328	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</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 <u>0</u>	<u>350</u>	<u>0</u>	<u>467</u>	<u>0</u>	<u>555</u>	<u>0</u>	<u>1014</u>
P 2 <u>5</u>	<u>306</u>	<u>3</u>	<u>1343</u>	<u>5</u>	<u>568</u>	<u>3</u>	<u>1409</u>
P 3 <u>10</u>	<u>305</u>	<u>6</u>	<u>1406</u>	<u>10</u>	<u>624</u>	<u>6</u>	<u>1452</u>
P 4 <u>15</u>	<u>327</u>	<u>9</u>	<u>1449</u>	<u>15</u>	<u>679</u>	<u>9</u>	<u>1481</u>
P 5 <u>20</u>	<u>367</u>	<u>12</u>	<u>1482</u>	<u>20</u>	<u>725</u>	<u>12</u>	<u>1500</u>
P 6 <u>25</u>	<u>416</u>	<u>15</u>	<u>1506</u>	<u>25</u>	<u>772</u>	<u>15</u>	<u>1514</u>
P 7 <u>30</u>	<u>467</u>	<u>18</u>	<u>1526</u>	<u>30</u>	<u>816</u>	<u>18</u>	<u>1527</u>
P 8		<u>21</u>	<u>1540</u>	<u>35</u>	<u>853</u>	<u>21</u>	<u>1540</u>
P 9		<u>24</u>	<u>1556</u>	<u>40</u>	<u>893</u>	<u>24</u>	<u>1551</u>
P10		<u>27</u>	<u>1566</u>	<u>45</u>	<u>926</u>	<u>27</u>	<u>1559</u>
P11		<u>30</u>	<u>1578</u>	<u>50</u>	<u>957</u>	<u>30</u>	<u>1569</u>
P12		<u>33</u>	<u>1586</u>	<u>55</u>	<u>986</u>	<u>33</u>	<u>1575</u>
P13		<u>36</u>	<u>1593</u>	<u>60</u>	<u>1014</u>	<u>36</u>	<u>1582</u>
P14		<u>39</u>	<u>1601</u>			<u>39</u>	<u>1590</u>
P15		<u>42</u>	<u>1607</u>			<u>42</u>	<u>1594</u>
P16		<u>45</u>	<u>1612</u>			<u>45</u>	<u>1598</u>
P17						<u>48</u>	<u>1604</u>
P18						<u>51</u>	<u>1607</u>
P19						<u>54</u>	<u>1612</u>
P20						<u>58</u>	<u>1617</u>
						<u>60</u>	<u>1622</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 11/5/78

Test Ticket No. 1765

Recorder No. 1561

Capacity 3100

Location 4643

Clock No. -- Elevation

1928 Kelly Bushing

Well Temperature 129

Point	Pressure	
A Initial Hydrostatic Mud	<u>2351</u>	P.S.I.
B First Initial Flow Pressure	<u>350</u>	P.S.I.
C First Final Flow Pressure	<u>467</u>	P.S.I.
D Initial Closed-in Pressure	<u>1612</u>	P.S.I.
E Second Initial Flow Pressure	<u>555</u>	P.S.I.
F Second Final Flow Pressure	<u>1014</u>	P.S.I.
G Final Closed-in Pressure	<u>1654</u>	P.S.I.
H Final Hydrostatic Mud	<u>2328</u>	P.S.I.

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

Time Given	Time Computed
<u>10:30A</u>	<u>M</u>
<u>30</u> Mins.	<u>30</u> Min
<u>45</u> Mins.	<u>45</u> Min
<u>60</u> Mins.	<u>60</u> Min
<u>90</u> Mins.	<u>90</u> Min

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 15 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						<u>63</u>	<u>1625</u>
P 2						<u>66</u>	<u>1629</u>
P 3						<u>69</u>	<u>1631</u>
P 4						<u>72</u>	<u>1364</u>
P 5						<u>75</u>	<u>1637</u>
P 6						<u>78</u>	<u>1639</u>
P 7						<u>81</u>	<u>1643</u>
P 8						<u>84</u>	<u>1647</u>
P 9						<u>87</u>	<u>1651</u>
P10						<u>90</u>	<u>1654</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Tkt #1765

I

(H)

(A)

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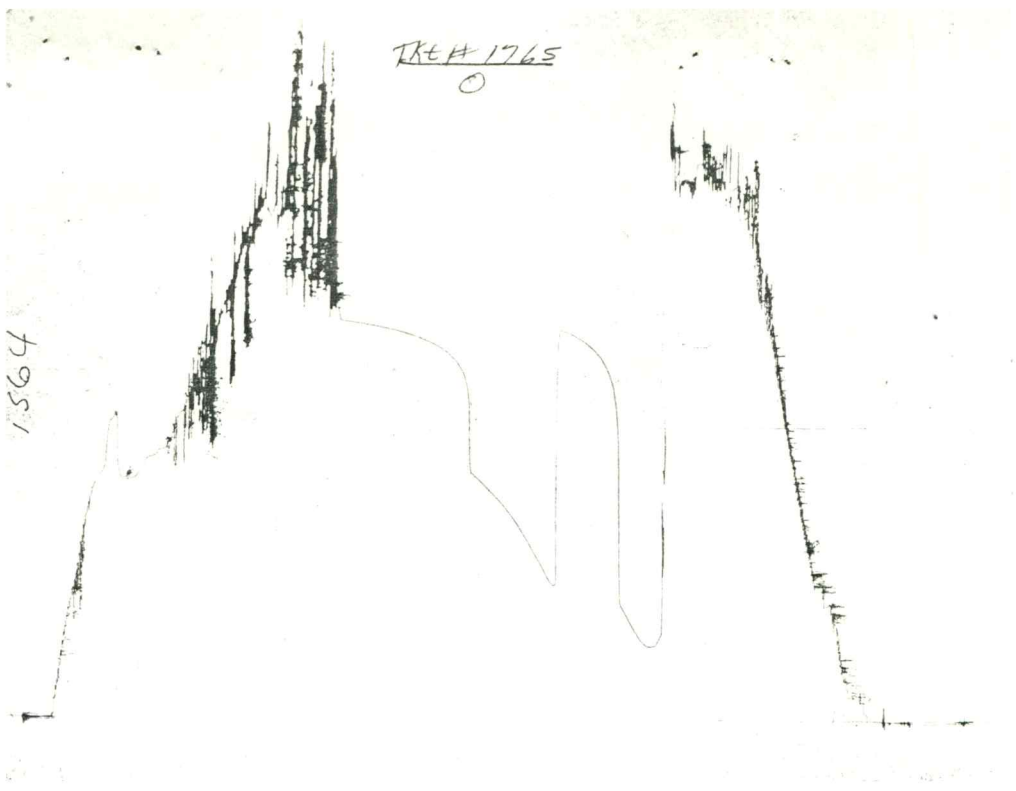
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P. O. BOX 1599

PHONE (316) 838-0601

WICHITA, KANSAS 67201

Company Texas Oil & Gas Corporation Lease & Well No. McMoran #2
 Elevation 1928 Kelly Bushing Formation Swope Effective Pay -- Ft. Ticket No. 1766
 Date 11/7/78 Sec. 8 Twp. 35S Range 16W County Commanche State Kansas
 Test Approved by Robert L. Layman Western Representative Will K. Hager

Formation Test No. 2 Interval Tested from 4996 ft. to 5024 ft. Total Depth 5024 ft.

Packer Depth 4991 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4996 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4986 ft. Recorder Number 1561 Cap. 3200

Bottom Recorder Depth (Outside) 5006 ft. Recorder Number 1564 Cap. 3150

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

Drilling Contractor H-30 Rig #77 Drill Collar Length 180 I. D. 2 1/4 in.

Mud Type premix Viscosity 41 Weight Pipe Length -- I. D. -- in.

Weight 9.2 Water Loss 55 cc. Drill Pipe Length 4788 I. D. 3.8 in.

Chlorides 19,000 P.P.M. Test Tool Length 56 in. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 406 Anchor Length 28 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 1/2 FH in.

Blow: _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: Could not get to bottom 6 1/2 stands up/tool open and still dit not slide/out of hole 7:55AM

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.

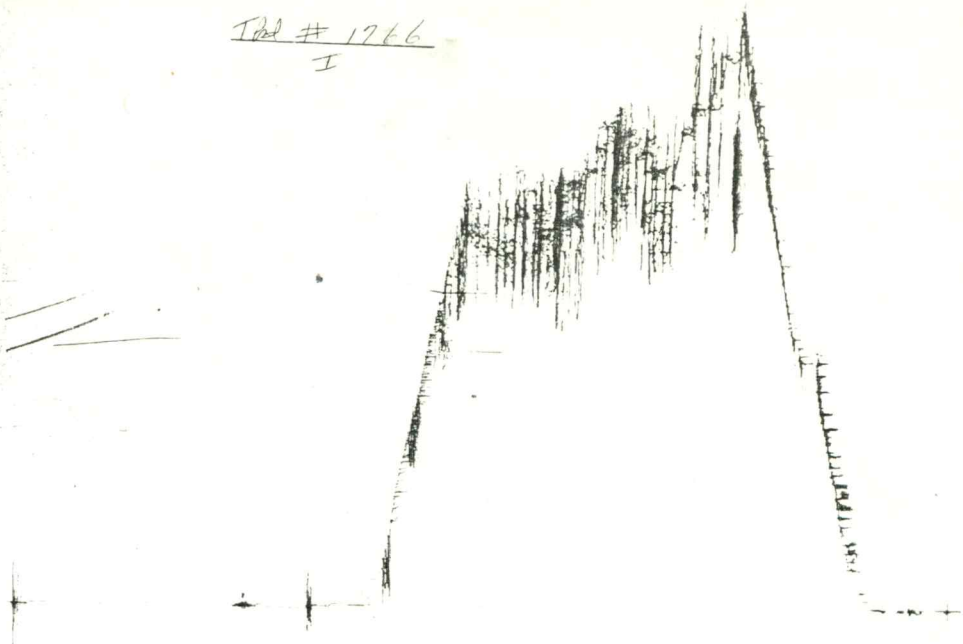
Initial Closed In Period _____ Minutes _____ (D) _____ P.S.I.

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

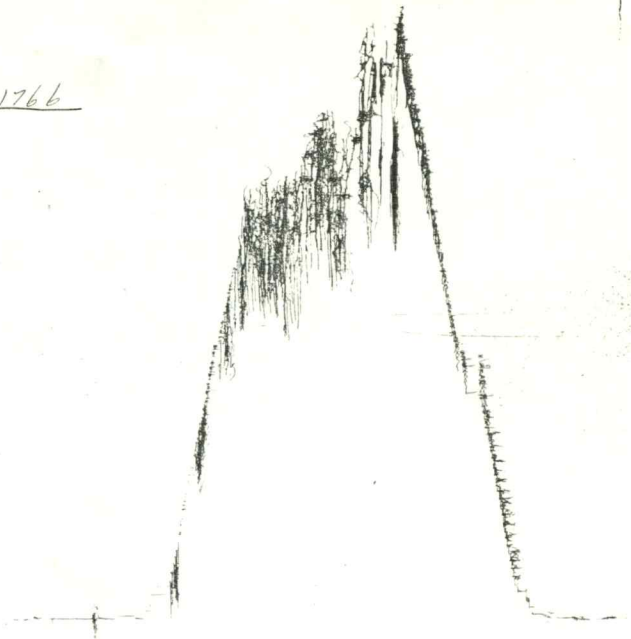
Final Closed In Period _____ Minutes _____ (G) _____ P.S.I.

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

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P. O. BOX 1599

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WICHITA, KANSAS 67201

Company TEXAS OIL & GAS CORPORATION Lease & Well No. MCMORAN #2
 Elevation 1928 Kelly Bushing Formation Swope Effective Pay -- Ft. Ticket No. 1767
 Date 11/7/78 Sec. 8 Twp. 35S Range 16W County Commanche State Kansas
 Test Approved by K. W. Dahlberg Western Representative Will K. Hager
 Formation Test No. 3 Interval Tested from 4966 ft. to 5204 ft. Total Depth 5024 ft.
 Packer Depth 4991 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4996 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 4986 ft. Recorder Number 1561 Cap. 3200
 Bottom Recorder Depth (Outside) 5006 ft. Recorder Number 1564 Cap. 3150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor H-30 Rig #77 Drill Collar Length 180 I. D. 2 1/4 in.
 Mud Type premix/drill Viscosity 48 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 21.6 cc. Drill Pipe Length 4788 I. D. 3.8 in.
 Chlorides 24,000 P.P.M. Test Tool Length 56' in. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 406 Anchor Length 28 ft. Size 5 1/2 in.
 Did Well Flow? Gas 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. Gas to surface in 20 minutes on initial opening. See attached sheet for gas measurements.

Recovered 20 ft. of drilling mud
 Recovered 45 ft. of muddy salt water Top sample 65,000 PPM
 Recovered - ft. of - Bottom sample 80,000 PPM
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 11:00 ~~A.M.~~ P.M. Time Started Off Bottom 2:45 ~~A.M.~~ P.M. Maximum Temperature 135
 Initial Hydrostatic Pressure 2570 (A) P.S.I.
 Initial Flow Period 30 Minutes (B) 39 P.S.I. to (C) 33 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1823 P.S.I.
 Final Flow Period 45 Minutes (E) 35 P.S.I. to (F) 28 P.S.I.
 Final Closed In Period 90 Minutes (G) 1812 P.S.I.
 Final Hydrostatic Pressure 2476 (H) P.S.I.



Home Office: Wichita, Kansas 67201

P. O. Box 1599 (316) 838-9601

GAS FLOW REPORT

Date 11/7/78 Ticket 1767 Company Texas Oil & Gas Corporation
Well Name and No. McMoran #2 Dst No. 3 Interval Tested 4996'-5024'
County Commanche State Kansas Sec. 8 Twp. 35S 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 20 minutes. PRE FLOW						
	20 min.	10" of water	3/4" orifice			44,800 CFPD
	25 min.	14" of water	3/4" orifice			53,300 CFPD
	30 min.	18" of water	3/4" orifice			60,200 CFPD

SECOND FLOW

	5 min.	10" of water	1 1/2" orifice			220,000 CFPD
	10 min.	13" of water	1 1/4" orifice			158,000 CFPD
	15 min.	9" of water	1 1/4" orifice			132,000 CFPD
	20 min.	9" of water	1 1/4" orifice			132,000 CFPD
	25 min.	9" of water	1 1/4" orifice			132,000 CFPD
	30 min.	9" of water	1 1/4" orifice			132,000 CFPD
	35 min.	10" of water	1 1/4" orifice			138,000 CFPD
	40 min.	10" of water	1 1/4" orifice			138,000 CFPD
	45 min.	11" of water	1 1/4" orifice			145,000 CFPD

GAS BOTTLE

Serial No. --- Date Bottle Filled 11/7/78 Date to be Invoiced 11/7/78

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 TEXAS OIL & GAS CORPORATION

Authorized by K. W. Dahlberg

WESTERN TESTING CO., INC.

Pressure Data

Date 11/7/78 Test Ticket No. 1767
 Recorder No. 1561 Capacity 3100 Location 4986 Ft.
 Clock No. -- Elevation 1928 Kelly Bushing Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2570	P.S.I.	11:00P	M
B First Initial Flow Pressure	39	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	33	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1823	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	35	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	28	P.S.I.		
G Final Closed-in Pressure	1812	P.S.I.		
H Final Hydrostatic Mud	2476	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>30</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	39	0	33	0	35	0	28
P 2 5	33	3	1406	5	31	3	1570
P 3 10	38	6	1675		27	6	1692
P 4 15	41	9	1759	10	28	9	1730
P 5 20	39	12	1781	15	28	12	1750
P 6 25	35	15	1799	20	28	15	1765
P 7 30	33	18	1807		28	18	1773
P 8		21	1810	25	28	21	1781
P 9		24	1813	30	28	24	1786
P 10		27	1816	35		27	1789
P 11		30	1818	40		30	1792
P 12		33	1821			33	1796
P 13		36	1821	45		36	1797
P 14		39	1821			39	1797
P 15		42	1821			42	1798
P 16		45	1821			45	1799
P 17		48	1823			48	1800
P 18		51	1823			51	1800
P 19		54	1823			54	1801
P 20		57	1823			57	1801
		60	1823			60	1802

WESTERN TESTING CO., INC.

Pressure Data

Date 11/7/78 Test Ticket No. 1767
 Recorder No. 1561 Capacity 3100 Location 4986 Ft.
 Clock No. -- Elevation 1928 Kelly Bushing Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2570 P.S.I.	Open Tool	11:00P	M
B First Initial Flow Pressure	39 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	33 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1823 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	35 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	28 P.S.I.			
G Final Closed-in Pressure	1812 P.S.I.			
H Final Hydrostatic Mud	2476 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>9</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	1803
P 2						66	1804
P 3						69	1805
P 4						72	1806
P 5						75	1807
P 6						78	1808
P 7						81	1809
P 8						84	1810
P 9						87	1811
P10						90	1812
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TBA # 1767
I

(H)

(H)

(G)

(D)

(F)

(E)

(C)

(B)

1561

Plot # 1767
0

1864

P. O. BOX 1599

PHONE (316) 838-0601

WICHITA, KANSAS 67201

Company Texas Oil & Gas Corporation Lease & Well No. McMoran #2
 Elevation 1928 Kelly Bushing Formation Hertha Effective Pay -- Ft. Ticket No. 1768
 Date 11/8/78 Sec. 8 Twp. 35S Range 16W County Commanche State Kansas
 Test Approved by K. W. Dahlberg Western Representative Will K. Hager

Formation Test No. 4 Interval Tested from 5045' ft. to 5065' ft. Total Depth 5065' ft.

Packer Depth 5040 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 5045 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5035 ft. Recorder Number 1561 Cap. 3200

Bottom Recorder Depth (Outside) 5055 ft. Recorder Number 1564 Cap. 3150

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

Drilling Contractor H-30 Rig #77 Drill Collar Length 180 I. D. 2 1/4 in.

Mud Type premix Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 21.8 cc. Drill Pipe Length 4837 I. D. 3.8 in.

Chlorides 27,000 P.P.M. Test Tool Length 48' in. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 406 Anchor Length 20 ft. Size 5 1/2 in.

Did Well Flow? Gas 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. Gas to surface in three minutes. See attached sheet for gas measurements.

Recovered 121 ft. of drilling mud Top Sample : 39,000

Recovered - ft. of - Middle Sample: 48,000

Recovered - ft. of - Bottom Sample: 57,000

Recovered - ft. of -

Recovered - ft. of -

Remarks:

Time Set Packer(s) 9:00 ~~A.M.~~ P.M. Time Started Off Bottom 12:45 ~~A.M.~~ P.M. Maximum Temperature 135

Initial Hydrostatic Pressure (A) 2671 P.S.I.

Initial Flow Period Minutes 30 (B) 126 P.S.I. to (C) 104 P.S.I.

Initial Closed In Period Minutes 60 (D) 1746 P.S.I.

Final Flow Period Minutes 45 (E) 123 P.S.I. to (F) 107 P.S.I.

Final Closed In Period Minutes 87 (G) 1734 P.S.I.

Final Hydrostatic Pressure (H) 2489 P.S.I.



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

GAS FLOW REPORT

Date 11/8/78 Ticket 1768 Company Texas Oil & Gas Corporation
Well Name and No. McMoran #2 Dst No. 4 Interval Tested 5045'-5065'
County Commanche State Kansas Sec. 8 Twp. 35S 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.	1.5 lbs.	1½" orifice				456,000 CFPD
10 min.	5 lbs.	1¼" orifice				542,000 CFPD
15 min.	10 lbs.	1" orifice				472,000 CFPD
20 min.	11 lbs.	1" orifice				499,000 CFPD
25 min.	12 lbs.	1" orifice				526,000 CFPD
30 MIN.	12 lbs.	1" orifice				526,000 CFPD

SECOND FLOW						
5 min.	13 lbs.	1" orifice				552,000 CFPD
10 min.	15 lbs.	1" orifice				603,000 CFPD
15 min.	7 lbs.	1¼" orifice				653,000 CFPD
20 min.	7 lbs.	1¼" orifice				653,000 CFPD
25 min.	7 lbs.	1¼" orifice				653,000 CFPD
30 min.	6.5 lbs.	1¼" orifice				626,000 CFPD
35 min.	6.5 lbs.	1¼" orifice				626,000 CFPD
40 min.	6.5 lbs.	1¼" orifice				626,000 CFPD
45 min.	6.5 lbs.	1¼" orifice				626,000 CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled -- Date to be Invoiced 11/8/78

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 TEXAS OIL & GAS CORPORATION

K. W. Dahlberg

Authorized by

WESTERN TESTING CO., INC.

Pressure Data

Date 11/8/78 Recorder No. 1561 Capacity 3200 Test Ticket No. 1768
 Location 5035 Ft. 135
 Clock No. -- Elevation 1928 Kelly Bushing Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2671 P.S.I.	Open Tool	9:00P	M
B First Initial Flow Pressure	126 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	104 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1746 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	123 P.S.I.	Final Closed-in Pressure	87 Mins.	87 Mins.
F Second Final Flow Pressure	107 P.S.I.			
G Final Closed-in Pressure	1734 P.S.I.			
H Final Hydrostatic Mud	2489 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>9</u> Inc.		Breakdown: <u>29</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 <u>0</u>	<u>126</u>	<u>0</u>	<u>104</u>	<u>0</u>	<u>122</u>	<u>0</u>	<u>107</u>
P 2 <u>5</u>	<u>108</u>	<u>3</u>	<u>1505</u>	<u>5</u>	<u>113</u>	<u>3</u>	<u>1269</u>
P 3 <u>10</u>	<u>104</u>	<u>6</u>	<u>1602</u>	<u>10</u>	<u>111</u>	<u>6</u>	<u>1538</u>
P 4 <u>15</u>	<u>104</u>	<u>9</u>	<u>1652</u>	<u>15</u>	<u>110</u>	<u>9</u>	<u>1590</u>
P 5 <u>20</u>	<u>104</u>	<u>12</u>	<u>1673</u>	<u>20</u>	<u>108</u>	<u>12</u>	<u>1615</u>
P 6 <u>25</u>	<u>104</u>	<u>15</u>	<u>1688</u>	<u>25</u>	<u>107</u>	<u>15</u>	<u>1636</u>
P 7 <u>30</u>	<u>104</u>	<u>18</u>	<u>1699</u>	<u>30</u>	<u>108</u>	<u>18</u>	<u>1651</u>
P 8		<u>21</u>	<u>1707</u>	<u>35</u>	<u>107</u>	<u>21</u>	<u>1662</u>
P 9		<u>24</u>	<u>1713</u>	<u>40</u>	<u>107</u>	<u>24</u>	<u>1673</u>
P10		<u>27</u>	<u>1720</u>	<u>45</u>	<u>107</u>	<u>27</u>	<u>1683</u>
P11		<u>30</u>	<u>1723</u>			<u>30</u>	<u>1688</u>
P12		<u>33</u>	<u>1728</u>			<u>33</u>	<u>1694</u>
P13		<u>36</u>	<u>1731</u>			<u>36</u>	<u>1699</u>
P14		<u>39</u>	<u>1733</u>			<u>39</u>	<u>1704</u>
P15		<u>42</u>	<u>1736</u>			<u>42</u>	<u>1709</u>
P16		<u>45</u>	<u>1739</u>			<u>45</u>	<u>1710</u>
P17		<u>48</u>	<u>1739</u>			<u>48</u>	<u>1713</u>
P18		<u>51</u>	<u>1742</u>			<u>51</u>	<u>1717</u>
P19		<u>54</u>	<u>1744</u>			<u>54</u>	<u>1720</u>
P20		<u>57</u>	<u>1745</u>			<u>57</u>	<u>1721</u>
WTC - 4		<u>60</u>	<u>1746</u>			<u>60</u>	<u>1722</u>

continued to next page

WESTERN TESTING CO., INC. Pressure Data

Date 11/8/78 Test Ticket No. 1768
Recorder No. 1561 Capacity 3200 Location 5035 Ft.
Clock No. -- Elevation 1928 Kelly Bushing Well Temperature 135 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2671</u> P.S.I.	Open Tool	<u>9:00P</u> M	
B First Initial Flow Pressure	<u>126</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Min.
C First Final Flow Pressure	<u>104</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Min.
D Initial Closed-in Pressure	<u>1746</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Min.
E Second Initial Flow Pressure	<u>123</u> P.S.I.	Final Closed-in Pressure	<u>87</u> Mins.	<u>87</u> Min.
F Second Final Flow Pressure	<u>107</u> P.S.I.			
G Final Closed-in Pressure	<u>1734</u> P.S.I.			
H Final Hydrostatic Mud	<u>2489</u> 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>29</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						<u>63</u>	<u>1723</u>
P 2						<u>66</u>	<u>1724</u>
P 3						<u>69</u>	<u>1725</u>
P 4						<u>72</u>	<u>1726</u>
P 5						<u>75</u>	<u>1728</u>
P 6						<u>78</u>	<u>1729</u>
P 7						<u>81</u>	<u>1731</u>
P 8						<u>84</u>	<u>1732</u>
P 9						<u>87</u>	<u>1734</u>
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TBR # 1768
I

(H)

(A)

(G)

(D)

(F)

(E)

(C)

(B)

Tab # 1768

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1007

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Texas Oil & Gas Corporation Lease & Well No. McMoran #2
Elevation ----- Formation ----- Effective Pay ----- Ft. Ticket No. 1477
Date 11/10/78 Sec. 8 Twp. 35S Range 16W County Commanche State Kansas
Test Approved by K. W. Dahlberg Western Representative Jim Wondra
Formation Test No. 5 Interval Tested from 5185' ft. to 5219' ft. Total Depth 5219' ft.
Packer Depth 5180 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 5185 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 5166 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 5212 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor H-30 Rig #77 Drill Collar Length 188 I. D. 2 1/4 in.
Mud Type premix-driscop Viscosity 50 Weight Pipe Length - I. D. - in.
Weight 9.2 Water Loss 18.8 cc. Drill Pipe Length - I. D. 3.8 in.
Chlorides 30,000 P.P.M. Test Tool Length 29 ft. in. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 408 Anchor Length 34 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 two minutes on pre-flow. See attached sheet for gas measurements.

Recovered 5 ft. of condensate
Recovered 120 ft. of gas cut mud Top : 28,000 PPM
Recovered - ft. of - Cottom : 31,000 PPM
Recovered - ft. of -
Recovered - ft. of -

Remarks: -

Time Set Packer(s) 11:05 ~~P.M.~~ A.M. Time Started Off Bottom 2:55 ~~P.M.~~ A.M. Maximum Temperature 122
Initial Hydrostatic Pressure 2544 P.S.I.
Initial Flow Period 30 Minutes (B) 457 P.S.I. to (C) 596 P.S.I.
Initial Closed In Period 60 Minutes (D) 2013 P.S.I.
Final Flow Period 45 Minutes (E) 569 P.S.I. to (F) 637 P.S.I.
Final Closed In Period 90 Minutes (G) 2025 P.S.I.
Final Hydrostatic Pressure 2538 P.S.I. (H)

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 11/10/78 Ticket 1477 Company Texas Oil & Gas Corporation
Well Name and No. McMoran #2 Dst No. 5 Interval Tested 5185'-5219
County Commanche State Kansas Sec. 8 Twp. 35S 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 two minutes. PRE FLOW						
30 min.	15 lbs.	1½" orifice				1,626,000 CFPD

SECOND FLOW						
5 min.	18 lbs.	1½" orifice				3,120,000 CFPD
10 min.	24 lbs.	1½" orifice				3,690,000 CFPD
20 min.	26 lbs.	1½" orifice				3,880,000 CFPD
30 min.	28 lbs.	1½" orifice				4,070,000 CFPD
40 min.	30 lbs.	1½" orifice				4,260,000 CFPD
45 min.	30 lbs.	1½" orifice				4,260,000 CFPD

GAS BOTTLE

Serial No. #51 Date Bottle Filled 11/10/78 Date to be Invoiced 11/10/78

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 Texas Oil & Gas Corporation

Authorized by K. W. Dahlberg

WESTERN TESTING CO., INC.

Pressure Data

Date 11/10/78 Test Ticket No. 1477
 Recorder No. 2 607 Capacity 4150 Location 5166 Ft.
 Clock No. -- Elevation -- Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2544	P.S.I.	11:05A	M
B First Initial Flow Pressure	457	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	596	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	2013	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	569	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	637	P.S.I.		
G Final Closed-in Pressure	2025	P.S.I.		
H Final Hydrostatic Mud	2538	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>9</u> Inc.		Breakdown: <u>29</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 <u>0</u>	<u>457</u>	<u>0</u>	<u>596</u>	<u>0</u>	<u>569</u>	<u>0</u>	<u>637</u>
P 2 <u>5</u>	<u>464</u>	<u>3</u>	<u>1922</u>	<u>5</u>	<u>578</u>	<u>3</u>	<u>1876</u>
P 3 <u>10</u>	<u>543</u>	<u>6</u>	<u>1958</u>	<u>10</u>	<u>586</u>	<u>6</u>	<u>1920</u>
P 4 <u>15</u>	<u>560</u>	<u>9</u>	<u>1964</u>	<u>15</u>	<u>598</u>	<u>9</u>	<u>1947</u>
P 5 <u>20</u>	<u>577</u>	<u>12</u>	<u>1976</u>	<u>20</u>	<u>612</u>	<u>12</u>	<u>1956</u>
P 6 <u>25</u>	<u>589</u>	<u>15</u>	<u>1984</u>	<u>25</u>	<u>620</u>	<u>15</u>	<u>1966</u>
P 7 <u>30</u>	<u>596</u>	<u>18</u>	<u>1992</u>	<u>30</u>	<u>628</u>	<u>18</u>	<u>1976</u>
P 8 _____	_____	<u>21</u>	<u>1996</u>	<u>35</u>	<u>632</u>	<u>21</u>	<u>1986</u>
P 9 _____	_____	<u>24</u>	<u>2002</u>	<u>40</u>	<u>635</u>	<u>24</u>	<u>1992</u>
P10 _____	_____	<u>27</u>	<u>2006</u>	<u>45</u>	<u>637</u>	<u>27</u>	<u>1998</u>
P11 _____	_____	<u>30</u>	<u>2009</u>	_____	_____	<u>30</u>	<u>2001</u>
P12 _____	_____	<u>33</u>	<u>2011</u>	_____	_____	<u>33</u>	<u>2001</u>
P13 _____	_____	<u>36</u>	<u>2013</u>	_____	_____	<u>36</u>	<u>2003</u>
P14 _____	_____	<u>39</u>	<u>2013</u>	_____	_____	<u>39</u>	<u>2005</u>
P15 _____	_____	<u>42</u>	<u>2013</u>	_____	_____	<u>42</u>	<u>2007</u>
P16 _____	_____	<u>45</u>	<u>2013</u>	_____	_____	<u>45</u>	<u>2007</u>
P17 _____	_____	<u>48</u>	<u>2013</u>	_____	_____	<u>48</u>	<u>2009</u>
P18 _____	_____	<u>51</u>	<u>2013</u>	_____	_____	<u>51</u>	<u>2009</u>
P19 _____	_____	<u>54</u>	<u>2013</u>	_____	_____	<u>54</u>	<u>2011</u>
P20 _____	_____	<u>57</u>	<u>2013</u>	_____	_____	<u>57</u>	<u>2011</u>
WTC - 4		<u>60</u>	<u>2013</u>			<u>60</u>	<u>2013</u>

WESTERN TESTING CO., INC.

Pressure Data

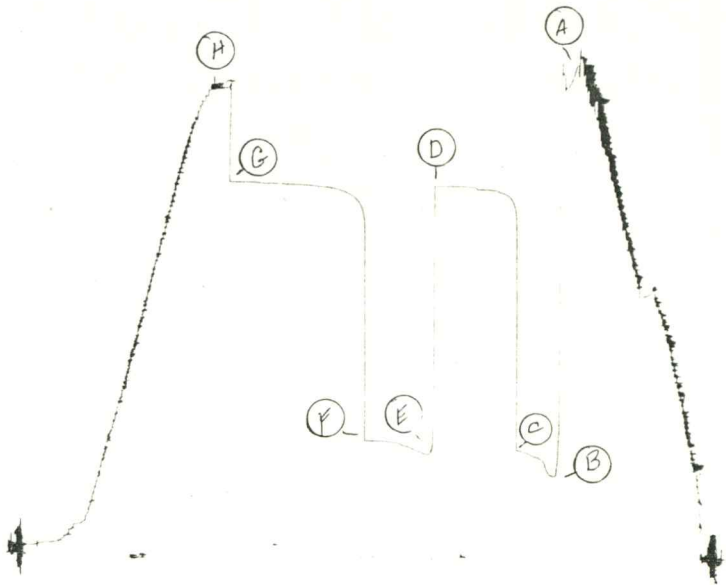
Date 11/10/78 Test Ticket No. 1477
 Recorder No. 2 607 Capacity 4150 Location 5166 Ft.
 Clock No. -- Elevation -- Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2544 P.S.I.	Open Tool	11:05A	M
B First Initial Flow Pressure	457 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	596 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	2013 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	569 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	637 P.S.I.			
G Final Closed-in Pressure	2025 P.S.I.			
H Final Hydrostatic Mud	2538 P.S.I.			

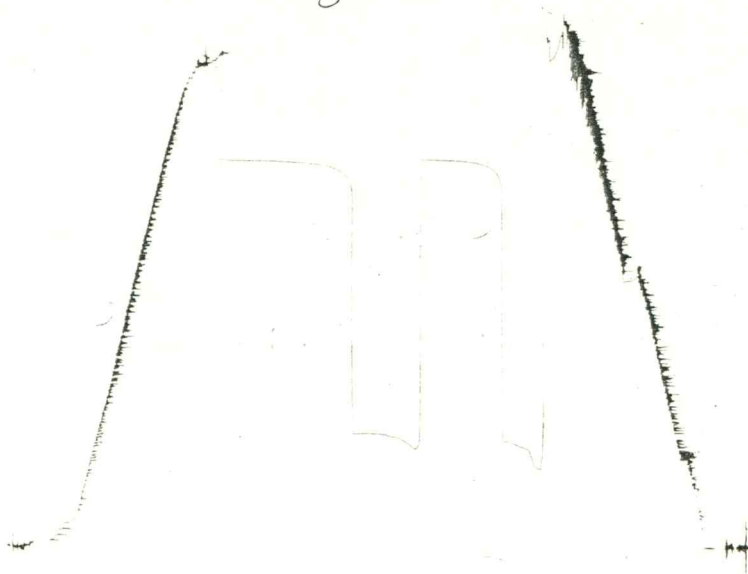
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>29</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	2013
P 2						66	2015
P 3						69	2016
P 4						72	2017
P 5						75	2018
P 6						78	2020
P 7						81	2022
P 8						84	2023
P 9						87	2024
P10						90	2025
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TB# 1477
I



Test # 1477
0



17