



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 3334

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

Elevation _____ Formation Miss Eff. Pay — Ft.

District Pratt Date 7/27/79 Customer Order No. —

COMPANY NAME Mesa Petroleum Co. (One Mesa Square) ADDRESS PO Box 2009 Amarillo Texas

LEASE AND WELL NO. Seacat 8-19 COUNTY Clark STATE Ks Sec. 19 Twp. 31 Rge. 2/W

Mail Invoice To Same Co. Name _____ Address _____ No. Copies Requested 5

Mail Charts To Same Address _____ No. Copies Requested 5

Formation Test No. 1 Interval Tested from 5135 ft. to 5215 ft. Total Depth 5325 ft.
Packer Depth 5130 ft. Size 6 3/4 in. Packer Depth 5215 ft. Size 6 3/4 in.
Packer Depth 5135 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

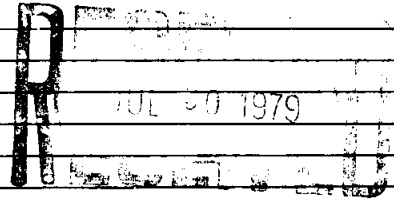
Top Recorder Depth (Inside) 5203 ft. Recorder Number 21607 Cap. 4150
Bottom Recorder Depth (Outside) 5206 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth 5325 ft. Recorder Number 3460 Cap. 4000

Drilling Contractor Search Drlg Rig #1 Drill Collar Length 460 I. D. 2 1/4 in.
Mud Type Drispac Viscosity 48 Weight Pipe Length — I. D. — in.
Weight 9.1 Water Loss 11.9 cc. Drill Pipe Length 4645 I. D. 3.8 in.
Chlorides 26,000 P.P.M. Test Tool Length 110 ft. Tool Size 5500 in.
Jars: Make WTC Serial Number 470 Anchor Length 110 ft. Size 5500 in.
Did Well Flow? No Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 1/8 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: Set packer 3 times all failed



Time Set Packer(s) _____ A.M. _____ P.M. Time Started Off Bottom _____ A.M. _____ P.M. Maximum Temperature 130°
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.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By H.F. Cokerham Cokerham
Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank You

FIELD INVOICE

Open Hole Test \$ _____
Misrun \$ ✓ 225.00
Straddle Test \$ ✓ 250.00
Jars \$ ✓ 250.00
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ ✓ 150.00
Circ. Sub. \$ ✓ 25.00
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
TOTAL \$ 900.00

WESTERN TESTING CO., INC.

Pressure Data

Date 7-27-79 Test Ticket No. 3334
 Recorder No. 2607 Capacity 4150 Location 5203 Ft.
 Clock No. _____ Elevation _____ Well Temperature 130 °F

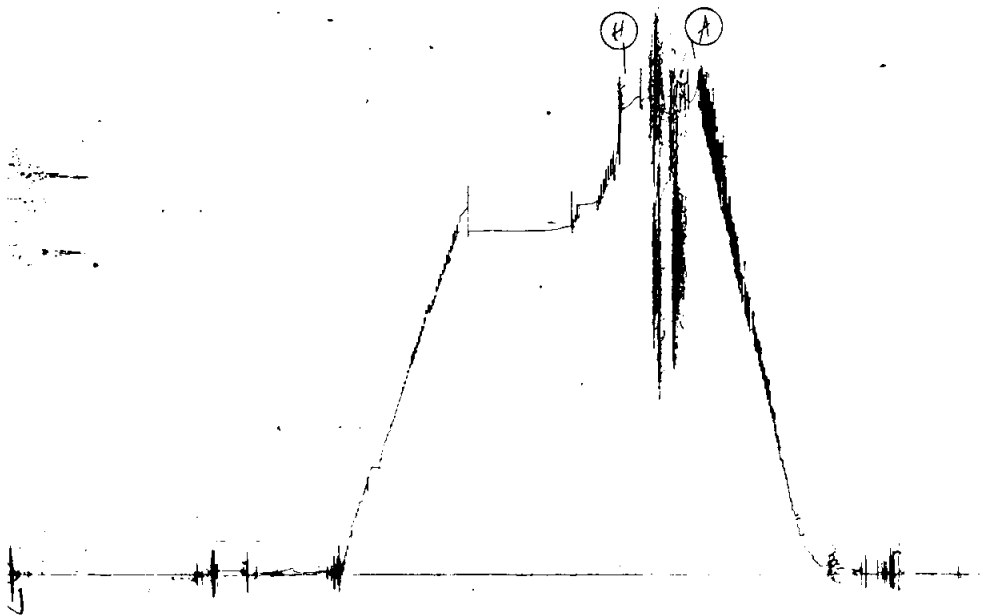
Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2649</u> P.S.I.	_____ M	_____	_____
B First Initial Flow Pressure	_____ P.S.I.	_____ Mins	_____	_____ Mins.
C First Final Flow Pressure	_____ P.S.I.	_____ Mins	_____	_____ Mins.
D Initial Closed-in Pressure	_____ P.S.I.	_____ Mins	_____	_____ Mins.
E Second Initial Flow Pressure	_____ P.S.I.	_____ Mins	_____	_____ Mins.
F Second Final Flow Pressure	_____ P.S.I.	_____ Mins	_____	_____ Mins.
G Final Closed-in Pressure	_____ P.S.I.	_____ Mins	_____	_____ Mins.
H Final Hydrostatic Mud	<u>2521</u> P.S.I.	_____ Mins	_____	_____ Mins.

PRESSURE BREAKDOWN

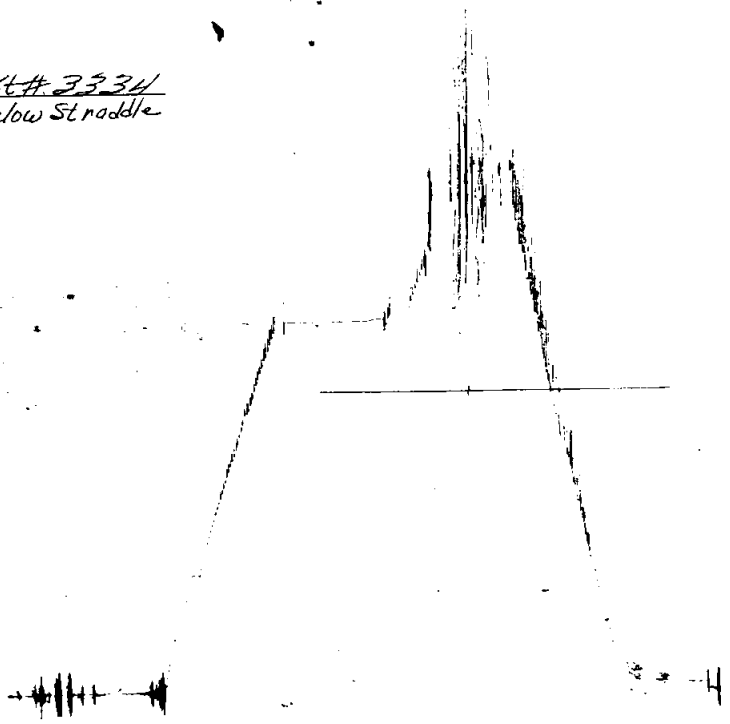
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final 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>0</u>	_____	<u>0</u>	_____	<u>0</u>	_____
P 2 <u>5</u>	_____	<u>3</u>	_____	<u>5</u>	_____	<u>3</u>	_____
P 3 <u>10</u>	_____	<u>6</u>	_____	<u>10</u>	_____	<u>6</u>	_____
P 4 <u>15</u>	_____	<u>9</u>	_____	<u>15</u>	_____	<u>9</u>	_____
P 5 <u>20</u>	_____	<u>12</u>	_____	<u>20</u>	_____	<u>12</u>	_____
P 6 <u>25</u>	_____	<u>15</u>	_____	<u>25</u>	_____	<u>15</u>	_____
P 7 <u>30</u>	_____	<u>18</u>	_____	<u>30</u>	_____	<u>18</u>	_____
P 8 <u>35</u>	_____	<u>21</u>	_____	<u>35</u>	_____	<u>21</u>	_____
P 9 <u>40</u>	_____	<u>24</u>	_____	<u>40</u>	_____	<u>24</u>	_____
P10 <u>45</u>	_____	<u>27</u>	_____	<u>45</u>	_____	<u>27</u>	_____
P11 <u>50</u>	_____	<u>30</u>	_____	<u>50</u>	_____	<u>30</u>	_____
P12 <u>55</u>	_____	<u>33</u>	_____	<u>55</u>	_____	<u>33</u>	_____
P13 <u>60</u>	_____	<u>36</u>	_____	<u>60</u>	_____	<u>36</u>	_____
P14 _____	_____	<u>39</u>	_____	<u>65</u>	_____	<u>39</u>	_____
P15 _____	_____	<u>42</u>	_____	<u>70</u>	_____	<u>42</u>	_____
P16 _____	_____	<u>45</u>	_____	<u>75</u>	_____	<u>45</u>	_____
P17 _____	_____	<u>48</u>	_____	<u>80</u>	_____	<u>48</u>	_____
P18 _____	_____	<u>51</u>	_____	<u>85</u>	_____	<u>51</u>	_____
P19 _____	_____	<u>54</u>	_____	<u>90</u>	_____	<u>54</u>	_____
P20 _____	_____	<u>57</u>	_____	_____	_____	<u>57</u>	_____
		<u>60</u>	_____			<u>60</u>	_____

TRC # 3334

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TKT# 3334
Below Straddle



Company Mesa Petroleum Company Lease & Well No. Seacat #8-19
 Elevation -- Formation Mississippi Effective Pay -- Ft. Ticket No. 3334
 Date 7/27/79 Sec. 19 Twp. 31S Range 21W County Clark State Kansas
 Test Approved by H. F. Cockerham Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 5135' ft. to 5215' ft. Total Depth 5325' ft.
 Packer Depth 5130 ft. Size 6 3/4 in. Packer Depth 5215 ft. Size 6 3/4 in.
 Packer Depth 5135 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 5203 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 5206 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth 5325 ft. Recorder Number 3660 Cap. 4000

Drilling Contractor Search Drilling Rig #1 Drill Collar Length 460 I. D. 2 1/2 in.
 Mud Type drispac Viscosity 48 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 11.4 cc. Drill Pipe Length 4645 I. D. 3.8 in.
 Chlorides 26,000 P.P.M. Test Tool Length 110 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 110 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 4 1/2 FH in.

Blow: --
 Recovered -- ft. of
 Recovered -- ft. of
 Recovered -- ft. of
 Recovered -- ft. of
 Recovered -- ft. of
 Recovered -- ft. of

MISRUN

Remarks: SET PACKER THREE TIMES - ALL FAILED

Time Set Packer(s) -- A.M. P.M. Time Started Off Bottom -- A.M. P.M. Maximum Temperature 130
 Initial Hydrostatic Pressure (A) 2649 P.S.I.
 Initial Flow Period (B) -- Minutes P.S.I. to (C) -- P.S.I.
 Initial Closed In Period (D) -- Minutes P.S.I.
 Final Flow Period (E) -- Minutes P.S.I. to (F) -- P.S.I.
 Final Closed In Period (G) -- Minutes P.S.I.
 Final Hydrostatic Pressure (H) 2521 P.S.I.



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 3335

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

Elevation _____ Formation Miss Eff. Pay _____ Ft.

District Pratt Date 7/28/79 Customer Order No. _____

COMPANY NAME Mesa Petroleum Co

ADDRESS One Main Square - P O Box 2009 Arraville, Iowa 50815

LEASE AND WELL NO. Seacat 8-19 COUNTY Clark STATE KS Sec. 19 Twp. 31 Rge. 21

Mail Invoice To Same Address _____ No. Copies Requested 5

Mail Charts To Same Address _____ No. Copies Requested 5

Formation Test No. 2 Interval Tested from 5152 ft. to 5225 ft. Total Depth 5325 ft.
Packer Depth 5147 ft. Size 6 3/4 in. Packer Depth 5225 ft. Size 6 3/4 in.
Packer Depth 5152 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

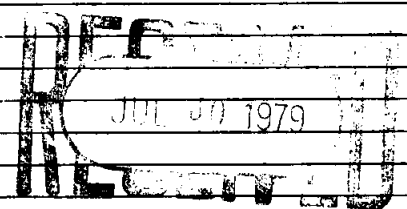
Top Recorder Depth (Inside) 5213 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 5216 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth 5325 ft. Recorder Number 3660 Cap. 4000

Drilling Contractor Search Only Rig #1 Drill Collar Length 340 I. D. 2 1/4 in.
Mud Type Dryspac Viscosity 48 Weight Pipe Length _____ I. D. _____ in.
Weight 9.1 Water Loss 11.4 cc. Drill Pipe Length 4784 I. D. 3.8 in.
Chlorides 26,100 P.P.M. Test Tool Length 101 ft. Tool Size 5500 in.
Jars: Make WTC Serial Number 410 Anchor Length 100 ft. Size 5500 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 8 min on preflow

Recovered 210 ft. of Gas & Oil Cut Mud
Recovered 509 ft. of Clean Oil (Gravity 36)

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____



Time Set Packer(s) 4:55 AM. Time Started Off Bottom 9:25 AM. Maximum Temperature 130^o
Initial Hydrostatic Pressure _____ (A) 2552 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 169 P.S.I. to (C) 148 P.S.I.
Initial Closed In Period _____ Minutes 60 (D) 1636 P.S.I.
Final Flow Period _____ Minutes 60 (E) 158 P.S.I. to (F) 179 P.S.I.
Final Closed In Period _____ Minutes 120 (G) 1689 P.S.I.
Final Hydrostatic Pressure _____ (H) 2531 P.S.I.

COMPANY TERMS

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Test Approved By H.F. Cochran
Signature of Customer or his authorized representative

Western Representative Jim Wondra Thank You

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$ _____
Straddle Test \$ 250.00
Jars \$ 250.00
Selective Zone \$ _____
Safety Joint \$ 35.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ 150.00
Circ. Sub. Packer Damex \$ 150.00
Fluid Sampler \$ _____
Extra Charts \$ _____
TOTAL \$ 1385.00



GAS FLOW REPORT

Nº 1981

Date 7/28/79 Ticket # 3335 Company Mesa Pet
 Well Name and No. Seacat 8-19 Dst No. 2 Interval Tested 5152-5225
 County Clark State Ks Sec. 19 Twp. 31 Rg. 21

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

Gas to surface in 8 min

13 min	13 H ₂ O	1"			93,700 C.F.P.D.
18 min	15"	"			101,000 " "
28 min	14"	"			97,300 " "

SECOND FLOW

5 min	20 H ₂ O	1"			115,000 C.F.P.D.
10	15"	"			101,000 " "
20	9"	"			77,500 " "
30	8"	"			73,100 " "
40	8"	"			" " " "
50	8"	"			" " " "
60	8"	"			" " " "

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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 _____

Authorized by _____

WESTERN TESTING CO., INC.
Pressure Data

Date 7-28-79 Test Ticket No. 3335
 Recorder No. 2607 Capacity 450 Location 5213 Ft.
 Clock No. _____ Elevation _____ Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2569</u> P.S.I.	Open Tool	<u>4:55</u> A.M.	
B First Initial Flow Pressure	<u>169</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>154</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1639</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>154</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>126</u> Mins.
F Second Final Flow Pressure	<u>180</u> P.S.I.			
G Final Closed-in Pressure	<u>1702</u> P.S.I.			
H Final Hydrostatic Mud	<u>2565</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>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>42</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	<u>169</u>	0	<u>154</u>	0	<u>154</u>	0	<u>180</u>
P 2 5	<u>171</u>	3	<u>390</u>	5	<u>152</u>	3	<u>294</u>
P 3 10	<u>159</u>	6	<u>583</u>	10	<u>148</u>	6	<u>523</u>
P 4 15	<u>154</u>	9	<u>781</u>	15	<u>150</u>	9	<u>714</u>
P 5 20	<u>0</u>	12	<u>939</u>	20	<u>159</u>	12	<u>860</u>
P 6 25	<u>0</u>	15	<u>1071</u>	25	<u>165</u>	15	<u>985</u>
P 7 30	<u>154</u>	18	<u>1176</u>	30	<u>169</u>	18	<u>1036</u>
P 8 35		21	<u>1257</u>	35	<u>173</u>	21	<u>1169</u>
P 9 40		24	<u>1324</u>	40	<u>177</u>	24	<u>1234</u>
P10 45		27	<u>1374</u>	45	<u>180</u>	27	<u>1295</u>
P11 50		30	<u>1416</u>	50	<u>0</u>	30	<u>1343</u>
P12 55		33	<u>1448</u>	55	<u>0</u>	33	<u>1385</u>
P13 60		36	<u>1479</u>	60	<u>180</u>	36	<u>1422</u>
P14		39	<u>1508</u>	65		39	<u>1450</u>
P15		42	<u>1532</u>	70		42	<u>1479</u>
P16		45	<u>1553</u>	75		45	<u>1500</u>
P17		48	<u>1571</u>	80		48	<u>1515</u>
P18		51	<u>1599</u>	85		51	<u>1531</u>
P19		54	<u>1616</u>	90		54	<u>1546</u>
P20		57	<u>1627</u>			57	<u>1564</u>
		60	<u>1639</u>			60	<u>1578</u>

(cont)

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 3335

Recorder No. _____ Capacity _____ Location _____ Ft.

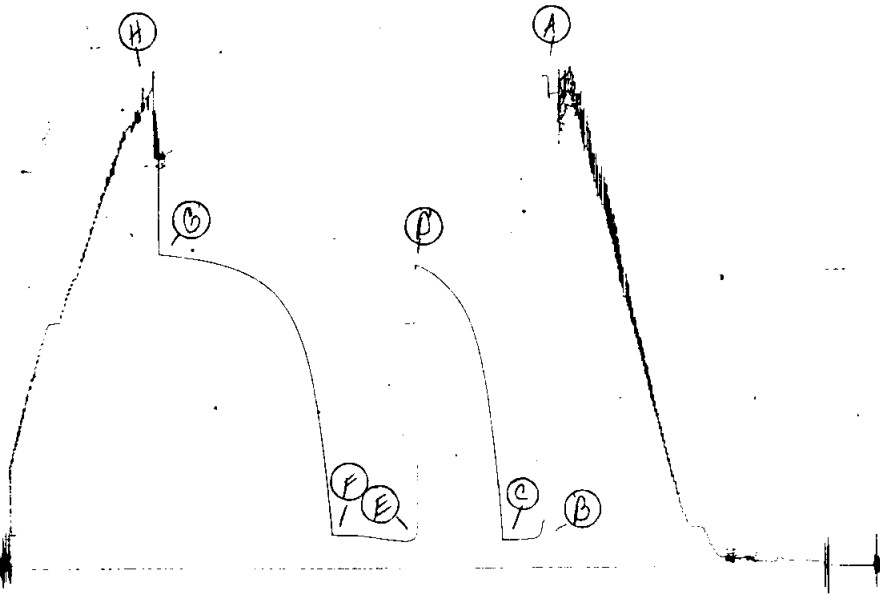
Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	_____	_____ M	_____
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	_____ Mins.	_____ Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	_____ Mins.	_____ Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

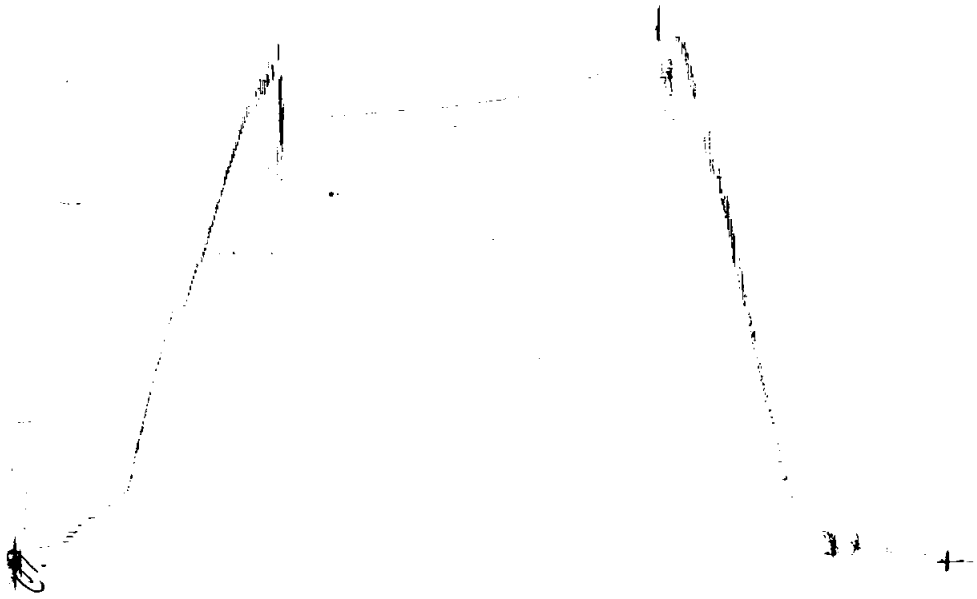
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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				63	1589
P 2		66				66	1597
P 3		69				69	1610
P 4		72				72	1619
P 5		75				75	1628
P 6		78				78	1634
P 7		81				81	1640
P 8		84				84	1647
P 9		87				87	1653
P10		90				90	1660
P11		93				93	1664
P12		96				96	1668
P13		99				99	1673
P14		102				102	1677
P15		105				105	1681
P16		108				108	1685
P17		111				111	1689
P18		114				114	1689
P19		117				117	1691
P20		120				120	1693

TKH 4 3333
I



TKA # 3235
Below Straddle



Company Mesa Petroleum Company Lease & Well No. Seacat #8-19
 Elevation -- Formation Mississippi Effective Pay -- Ft. Ticket No. 3335
 Date 7/28/79 Sec. 19 Twp. 31S Range 21W County Clark State Kansas
 Test Approved by H. F. Cockerham Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 5152' ft. to 5225 ft. Total Depth 5325' ft.
 Packer Depth 5147 ft. Size 6 3/4 in. Packer Depth 5225 ft. Size 6 3/4 in.
 Packer Depth 5152 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Depth of Selective Zone Set --

Top Recorder Depth (Inside) 5213 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 5216 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth 5325 ft. Recorder Number 3660 Cap. 4000

Drilling Contractor Search Drilling Rig #1 Drill Collar Length 340 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 48 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 11.4 cc. Drill Pipe Length 4784 I. D. 3.8 in.
 Chlorides 26,000 P.P.M. Test Tool Length 101 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 410 Anchor Length 100 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 eight minutes on pre-flow.
See attached sheet for gas measurements.

Recovered 210 ft. of gas and oil cut mud
 Recovered 509 ft. of clean oil (gravity 36⁰)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 4:55 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 9:25 ~~P.M.~~ ^{A.M.} Maximum Temperature 130
 Initial Hydrostatic Pressure (A) 2569 P.S.I.
 Initial Flow Period Minutes 30 (B) 169 P.S.I. to (C) 154 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1639 P.S.I.
 Final Flow Period Minutes 60 (E) 154 P.S.I. to (F) 180 P.S.I.
 Final Closed In Period Minutes 126 (G) 1702 P.S.I.
 Final Hydrostatic Pressure (H) 2565 P.S.I.

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 7/28/79 Ticket 3335 Company Mesa Petroleum Company
Well Name and No. Seacat #8-19 Dst No. 2 Interval Tested 5152'-5225'
County Clark State Kansas Sec. 19 Twp. 31S Rg. 21W

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 eight minutes. PRE FLOW						
	13 min.	13" of water	1" orifice			93,700 CFPD
	18 min.	15" of water	1" orifice			101,000 CFPD
	28 min.	14" of water	1" orifice			97,300 CFPD

SECOND FLOW						
	5 min.	20" of water	1" orifice			115,000 CFPD
	10 min.	15" of water	1" orifice			101,000 CFPD
	20 min.	9" of water	1" orifice			77,500 CFPD
	30 min.	8" of water	1" orifice			73,100 CFPD
	40 min.	8" of water	1" orifice			73,100 CFPD
	50 min.	8" of water	1" orifice			73,100 CFPD
	60 min.	8" of water	1" orifice			73,100 CFPD

GAS BOTTLE

Serial No. --- Date Bottle Filled --- Date to be Invoiced 7/28/79

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 Mesa Petroleum Company
Authorized by H. F. Cockerham

WESTERN TESTING CO., INC.

Pressure Data

Date 7/28/79 Test Ticket No. 3335
 Recorder No. 2607 Capacity 4150 Location 5213 Ft.
 Clock No. -- Elevation -- Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	2569	P.S.I.	4:55A	M
B. First Initial Flow Pressure	169	P.S.I.	30	Mins. 30 Mins.
C. First Final Flow Pressure	154	P.S.I.	60	Mins. 60 Mins.
D. Initial Closed-in Pressure	1639	P.S.I.	60	Mins. 60 Mins.
E. Second Initial Flow Pressure	154	P.S.I.	120	Mins. 126 Mins.
F. Second Final Flow Pressure	180	P.S.I.		
G. Final Closed-in Pressure	1702	P.S.I.		
H. Final Hydrostatic Mud	2565	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>12</u> Inc.		Breakdown: <u>42</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>169</u>	<u>0</u> <u>154</u>	<u>0</u> <u>154</u>	<u>0</u> <u>154</u>	<u>0</u> <u>180</u>		
P 2	<u>5</u> <u>171</u>	<u>3</u> <u>390</u>	<u>5</u> <u>152</u>	<u>3</u> <u>294</u>			
P 3	<u>10</u> <u>159</u>	<u>6</u> <u>583</u>	<u>10</u> <u>148</u>	<u>6</u> <u>523</u>			
P 4	<u>15</u> <u>154</u>	<u>9</u> <u>781</u>	<u>15</u> <u>150</u>	<u>9</u> <u>714</u>			
P 5	<u>20</u> <u>154</u>	<u>12</u> <u>939</u>	<u>20</u> <u>159</u>	<u>12</u> <u>860</u>			
P 6	<u>25</u> <u>154</u>	<u>15</u> <u>1071</u>	<u>25</u> <u>165</u>	<u>15</u> <u>985</u>			
P 7	<u>30</u> <u>154</u>	<u>18</u> <u>1176</u>	<u>30</u> <u>169</u>	<u>18</u> <u>1036</u>			
P 8		<u>21</u> <u>1257</u>	<u>35</u> <u>173</u>	<u>21</u> <u>1169</u>			
P 9		<u>24</u> <u>1324</u>	<u>40</u> <u>177</u>	<u>24</u> <u>1234</u>			
P10		<u>27</u> <u>1374</u>	<u>45</u> <u>180</u>	<u>27</u> <u>1295</u>			
P11		<u>30</u> <u>1416</u>	<u>50</u> <u>180</u>	<u>30</u> <u>1343</u>			
P12		<u>33</u> <u>1448</u>	<u>55</u> <u>180</u>	<u>33</u> <u>1385</u>			
P13		<u>36</u> <u>1479</u>	<u>60</u> <u>180</u>	<u>36</u> <u>1422</u>			
P14		<u>39</u> <u>1508</u>		<u>39</u> <u>1450</u>			
P15		<u>42</u> <u>1532</u>		<u>42</u> <u>1479</u>			
P16		<u>45</u> <u>1553</u>		<u>45</u> <u>1500</u>			
P17		<u>48</u> <u>1571</u>		<u>48</u> <u>1515</u>			
P18		<u>51</u> <u>1599</u>		<u>51</u> <u>1531</u>			
P19		<u>54</u> <u>1616</u>		<u>54</u> <u>1546</u>			
P20		<u>57</u> <u>1627</u>		<u>57</u> <u>1564</u>			
		<u>60</u> <u>1639</u>		<u>60</u> <u>1578</u>			

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Pressure Data

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D Initial Closed-in Pressure	1639	P.S.I.	60	Mins
E Second Initial Flow Pressure	154	P.S.I.	120	Mins
F Second Final Flow Pressure	180	P.S.I.		
G Final Closed-in Pressure	1702	P.S.I.		
H Final Hydrostatic Mud	2565	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: 12 Inc. of 5 mins. and a final inc. of 0 Min.
Final Shut-In Breakdown: 42 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	1589
P 2						66	1597
P 3						69	1610
P 4						72	1619
P 5						75	1628
P 6						78	1634
P 7						81	1640
P 8						84	1667
P 9						87	1653
P10						90	1660
P11						93	1664
P12						96	1668
P13						99	1673
P14						102	1677
P15						105	1681
P16						108	1685
P17						111	1687
P18						114	1689
P19						117	1691
P20						120	1693
						123	1697
						126	1702