

**WESTERN TESTING CO., INC.**

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 7369
UNIT NO.
DISTRICT 12

DATE 11/08/84

THE NATIONAL OIL COMPANY
1350 17TH STREET SUITE 300
DENVER, COLORADO 80202

FOR CUSTOMER'S USE ONLY

REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR		
WELL NO.	FARM	SECTION	TWP.	RANGE
	GRIGSBY	BARBER	KS 22	30S 13W

DRILL STEM TEST FROM 4220' TO 4304' TOTAL DEPTH 4304' (TEST 1) \$ 585.00
SAFETY JOINTS
TOTAL \$ 660.00

DISCOUNT \$ 6.60	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	INVOICE NUMBER 7369
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SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7369

P. O. BOX 1599 PHONE (316) 262-5861

Elevation 1825 K.B. Formation Marmaton-Miss Eff. Pay Ft.

WICHITA, KANSAS 67201

District PRATT Date 11-8-84 Customer Order No.

COMPANY NAME NATIONAL Oil Co.

ADDRESS 1350 17th Street, Suite 300 DENVER, Colo. 80202

LEASE AND WELL NO. Grigsby #4 COUNTY BARBER STATE Ks Sec. 22 Twp. 30S Rge. 13W

Mail Invoice To SAME #4 GRIGSBY No. Copies Requested req

Mail Charts To SAME Address No. Copies Requested req

Formation Test No. 1 Interval Tested From 4220 ft. to 4304 ft. Total Depth 4304 ft.

Packer Depth 4215 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4220 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4223 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 4226 ft. Recorder Number 6246 Cap. 9200

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Kevin Drly Inc. Rig #2 Drill Collar Length I. D.

Mud Type Premix Chemical Viscosity 42 Weight Pipe Length I. D.

Weight 9.7 Water Loss 40 cc. Drill Pipe Length 4197 I. D. 3.8

Chlorides 11.000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 84 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 7/8 in. Tool Joint Size 3 1/2 x 4 1/2 in.

Blow: Weak blow slowly building to a good blow on initial flow. Strong steady blow through final flow.

Recovered 520 ft. of gas in Pipe

Recovered 25 ft. of slightly gas cut dily. mud. (Slight show of oil in top of tool.)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: 61' Drill Pipe in ANCHOR

TIGHT NOLE

Time On Location 11:30 A.M. Time Pick Up Tool 3:20 P.M. Time Off Location 11:30 P.M.

Time Set Packer(s) 5:35 A.M. Time Started Off Bottom 9:15 P.M. Maximum Temperature 130°

Initial Hydrostatic Pressure (A) 2069 P.S.I.

Initial Flow Period Minutes 10 (B) 38 P.S.I. to (C) 25 P.S.I.

Initial Closed In Period Minutes 30 (D) 89 P.S.I.

Final Flow Period Minutes 60 (E) 25 P.S.I. to (F) 12 P.S.I.

Final Closed In Period Minutes 120 (G) 460 P.S.I.

Final Hydrostatic Pressure (H) 2017 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 [Signature] Signature of Customer or his authorized representative

Western Representative Mike Litt - Thank You!

2075

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date 11-8

Test Ticket No. 7369

Recorder No. 6074

Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____

Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2072</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>27</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>27</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>95</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>26</u> P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	<u>120</u> Mins.
F Second Final Flow Pressure	<u>26</u> P.S.I.			
G Final Closed-in Pressure	<u>450</u> P.S.I.			
H Final Hydrostatic Mud	<u>2072</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>41</u> Inc.	
of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		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	<u>27</u>	0	<u>27</u>	0	<u>26</u>	0	<u>26</u>
P 2 5	<u>27</u>	3	<u>30</u>	5		3	<u>38</u>
P 3 10	<u>27</u>	6	<u>36</u>	10		6	<u>54</u>
P 4 15		9	<u>46</u>	15		9	<u>67</u>
P 5 20		12	<u>56</u>	20		12	<u>82</u>
P 6 25		15	<u>64</u>	25		15	<u>97</u>
P 7 30		18	<u>71</u>	30		18	<u>112</u>
P 8 35		21	<u>77</u>	35		21	<u>125</u>
P 9 40		24	<u>83</u>	40		24	<u>138</u>
P10 45		27	<u>89</u>	45		27	<u>151</u>
P11 50		30	<u>95</u>	50		30	<u>164</u>
P12 55		33		55	33	<u>177</u>	
P13 60		36		60	<u>26</u>	36	<u>189</u>
P14		39		65		39	<u>201</u>
P15		42		70		42	<u>213</u>
P16		45		75		45	<u>225</u>
P17		48		80		48	<u>236</u>
P18		51		85		51	<u>247</u>
P19		54		90		54	<u>258</u>
P20		57				57	<u>268</u>
		60				60	<u>278</u>

cont

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 7369

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool _____	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.
of 5 mins. and a
final inc. of 0 Min.

Breakdown: _____ Inc.
of 3 mins. and a
final inc. of 0 Min.

Breakdown: _____ Inc.
of 5 mins. and a
final inc. of 0 Min.

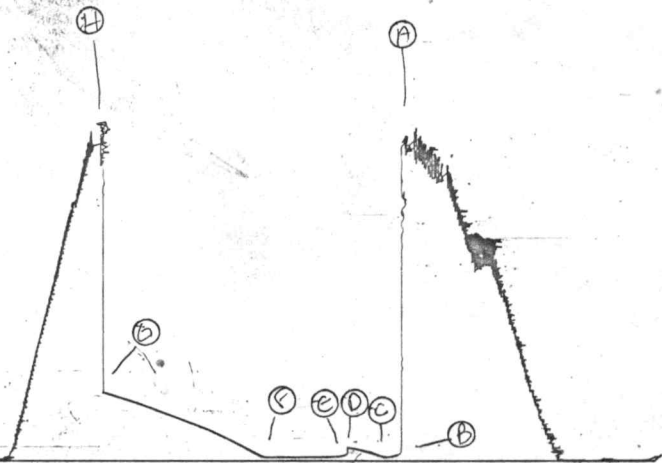
Breakdown: _____ Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		63				63	288
P 2		66				66	298
P 3		69				69	308
P 4		72				72	318
P 5		75				75	328
P 6		78				78	338
P 7		81				81	348
P 8		84				84	358
P 9		87				87	367
P10		90				90	376
P11		93				93	385
P12		96				96	394
P13		99				99	403
P14		102				102	411
P15		105				105	419
P16		108				108	426
P17		111				111	432
P18		114				114	438
P19		117				117	444
P20		120				120	450

YUC# 7369

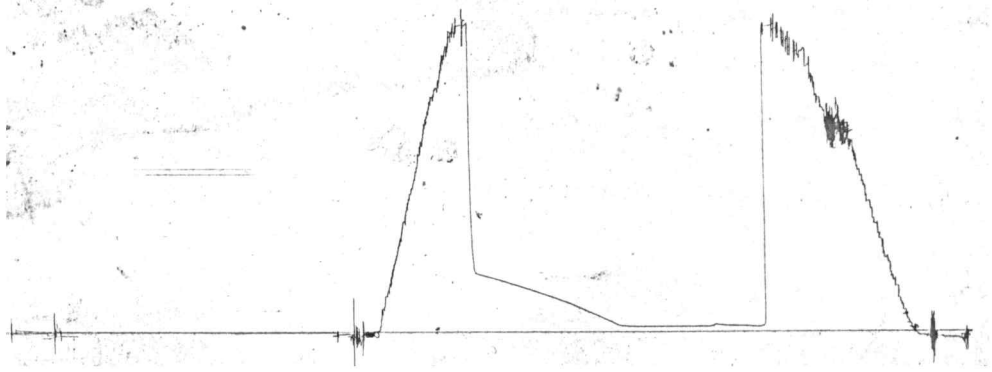
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TKT 7369

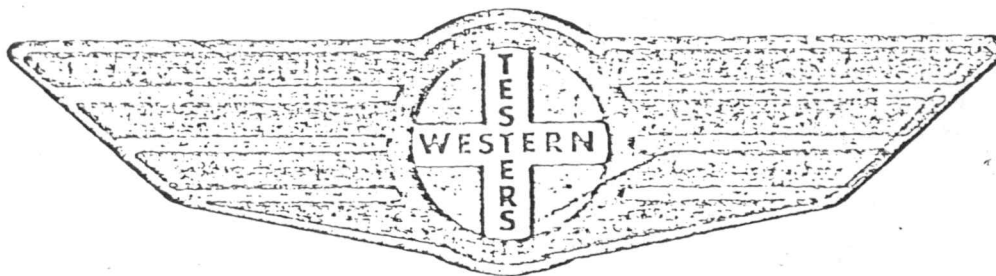
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ THE NATIONAL OIL & COKE COMPANY _____ Lease and Well No. _____ 74 VALUEDI _____ Sec. _____ 44 TYP. _____ 205 Rge. _____ 13W Test No. _____ 1 DATE 11/8/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/8/84 TICKET #7369
 CUSTOMER: NATIONAL OIL CO. LEASE: GRIGSBY
 WELL: 4 TEST: 1 GEOLOGIST: KEITH O.
 ELEVATION (KB): 1825 FORMATION: MARMATON-MISS
 SECTION: 22 TOWNSHIP: 30S
 RANGE: 13W COUNTY: BARBER STATE: KS
 GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 4220 FT TO: 4304 FT TOTAL DEPTH: 4304 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 4215 FT SIZE: 6 5/8 IN PACKER DEPTH: 4220 FT SIZE: 6 5/8 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: REVLIN DRLG INC.
 MUD TYPE: PMX CHEM VISCOSITY: 42
 WEIGHT: 9.7 WATER LOSS (CC): 40
 CHLORIDES (P.P.M.): 11000
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: FT I.D.: IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 4197 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 23 FT TOOL SIZE: 5 1/2 IN
 ANCHOR LENGTH: 84 FT SIZE: 5 1/2 IN
 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: INITIAL FLOW PERIOD WEAK BLOW SLOWLY BUILDING
 TO A GOOD BLOW.
 FINAL FLOW PERIOD STRONG STEADY BLOW.

RECOVERED: 520 FT OF: GAS IN PIPE
 RECOVERED: 25 FT OF: SLIGHTLY GAS CUT DRILLING MUD. (SLIGHT SHOW OF
 RECOVERED: FT OF: OIL IN TOP OF TOOL)
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS: 61' DRILL PIPE IN ANCHOR
 TIGHT HOLE!

TIME SET PACKER(S): 5:35 AM TIME STARTED OFF BOTTOM: 9:15 AM
 WELL TEMPERATURE: 130 'F
 INITIAL HYDROSTATIC PRESSURE: (A) 2072 PSI
 INITIAL FLOW PERIOD MIN: 10 (B) 27 PSI TO (C) 27 PSI
 INITIAL CLOSED IN PERIOD MIN: 30 (D) 95 PSI
 FINAL FLOW PERIOD MIN: 60 (E) 26 PSI TO (F) 26 PSI
 FINAL CLOSED IN PERIOD MIN: 120 (G) 450 PSI
 FINAL HYDROSTATIC PRESSURE (H) 2072 PSI

**WESTERN TESTING CO., INC.**

P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 7370
UNIT NO.
DISTRICT 12

DATE 11/09/84

THE NATIONAL OIL COMPANY
1350 17TH STREET SUITE 300
DENVER, COLORADO 80202

FOR CUSTOMER'S USE ONLY

REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO. OWNER CONTRACTOR

WELL NO.	FARM	SECTION	TWP	RANGE
4	GRIGSBY BARBER	KS 22	30S	13W

DRILL STEM TEST FROM 4365' TO 4459' TOTAL DEPTH 4459' (TEST 2) \$ 595.00
SAFETY JOINTS 65.00
TOTAL \$ 660.00

DISCOUNT

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID
BY THE 20TH OF THE FOLLOWING MONTH.PLEASE INCLUDE OUR INVOICE NUMBER
WITH YOUR REMITTANCE

INVOICE NUMBER

\$ 6.60

7370

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 7370

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 1825 K.B. Formation V10/2 Eff. Pay Ft.

District NO 25 Pratt Date 11-9-84 Customer Order No.

COMPANY NAME The National Oil Co. ADDRESS 1350 17th Street, Suite 300, Denver, Colo. 80202

LEASE AND WELL NO. Grigsby #4 COUNTY Barber STATE Ks Sec. 22 Twp. 30s Rge. 13w

Mail Invoice To Same Co. Name #4 GRIGSBY Address No. Copies Requested Req

Mail Charts To Same #4 GRIGSBY Address No. Copies Requested Req

Formation Test No. 2 Interval Tested From 4365 ft. to 4459 ft. Total Depth 4459 ft.

Packer Depth 4360 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4365 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4369 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 4372 ft. Recorder Number 6246 Cap. 5200

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

Drilling Contractor Revlin Drly Co Rig #3 Drill Collar Length - I. D. - in.

Mud Type Tremix DRISpac Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 12.8 cc. Drill Pipe Length 4342 I. D. 3.8 in.

Chlorides 11,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 94 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 IF 4 1/2 FN in.

Blow: Weak, steady blow on initial flow. Weak blow but steady through final flow.

Recovered 20 ft. of Drilling mud

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Chlorides - P.P.M. Sample Jars used - Remarks: (1 Stand of pipe in ANCHOR - 61')

TIGHT HOLE!!

Time On Location 11:25 AM P.M. Time Pick Up Tool 12:20 AM P.M. Time Off Location 8:00 AM P.M.

Time Set Packer(s) 2:00 AM P.M. Time Started Off Bottom 5:40 AM P.M. Maximum Temperature 132°

Initial Hydrostatic Pressure (A) 2158 P.S.I.

Initial Flow Period (B) 10 Minutes 25 P.S.I. to (C) 25 P.S.I.

Initial Closed In Period (D) 30 Minutes 51 P.S.I.

Final Flow Period (E) 60 Minutes 25 P.S.I. to (F) 25 P.S.I.

Final Closed In Period (G) 120 Minutes 63 P.S.I.

Final Hydrostatic Pressure (H) 2120 P.S.I.

COMPANY TERMS

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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 [Signature] Signature of Customer or his authorized representative

Western Representative Mike Litt - Thank You!

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL. Amounts are listed in dollars, with handwritten values like 595.00 and 660.00.

WESTERN TESTING CO., INC.

Pressure Data

Date: 11-9-84 Test Ticket No. 7370
 Recorder No. 6074 Capacity 5100 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2124</u>	P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>31</u>	P.S.I.	First Flow Pressure	<u>10</u> Mins.	_____ Mins.
C First Final Flow Pressure	<u>31</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	_____ Mins.
D Initial Closed-in Pressure	<u>59</u>	P.S.I.	Second Flow Pressure	<u>60</u> Mins.	_____ Mins.
E Second Initial Flow Pressure	<u>29</u>	P.S.I.	Final Closed-in Pressure	<u>120</u> Mins.	_____ Mins.
F Second Final Flow Pressure	<u>29</u>	P.S.I.			
G Final Closed-in Pressure	<u>42</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2124</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>13</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.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>31</u>	0	<u>31</u>	0	<u>29</u>	0	<u>29</u>
P 2	<u>31</u>	3	<u>31</u>	5		3	<u>30</u>
P 3	<u>31</u>	6	<u>32</u>	10		6	<u>31</u>
P 4		9	<u>34</u>	15		9	<u>32</u>
P 5		12	<u>39</u>	20		12	<u>34</u>
P 6		15	<u>44</u>	25		15	<u>36</u>
P 7		18	<u>47</u>	30	<u>29</u>	18	<u>38</u>
P 8		21	<u>50</u>	35		21	<u>40</u>
P 9		24	<u>53</u>	40	<u>29</u>	24	<u>42</u>
P10		27	<u>54</u>	45	<u>29</u>	27	<u>44</u>
P11		30	<u>59</u>	50		30	<u>40</u>
P12		33		55		33	<u>48</u>
P13		36		60	<u>29</u>	36	<u>50</u>
P14		39		65		39	<u>52</u>
P15		42		70		42	<u>54</u>
P16		45		75		45	<u>50</u>
P17		48		80		48	<u>57</u>
P18		51		85		51	<u>58</u>
P19		54		90		54	<u>59</u>
P20		57				57	<u>60</u>
		60				60	<u>61</u>

WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticket No. 7370

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.			

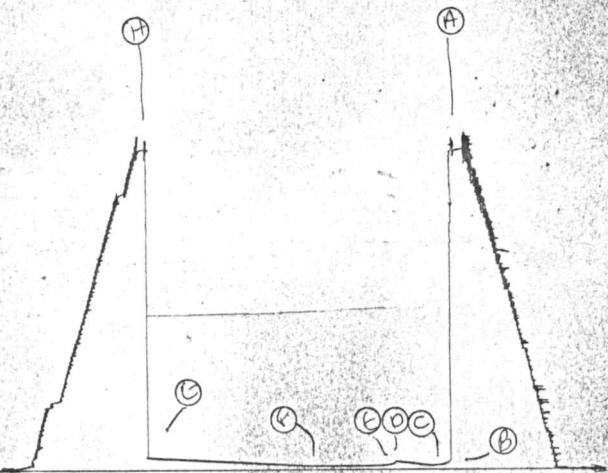
PRESSURE BREAKDOWN

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 _____	<u>62</u>
P 2 _____	_____	66 _____	_____	_____	_____	66 _____	<u>63</u>
P 3 _____	_____	69 _____	_____	_____	_____	69 _____	<u>64</u>
P 4 _____	_____	72 _____	_____	_____	_____	72 _____	<u>65</u>
P 5 _____	_____	75 _____	_____	_____	_____	75 _____	<u>66</u>
P 6 _____	_____	78 _____	_____	_____	_____	78 _____	<u>67</u>
P 7 _____	_____	81 _____	_____	_____	_____	81 _____	<u>68</u>
P 8 _____	_____	84 _____	_____	_____	_____	84 _____	<u>69</u>
P 9 _____	_____	87 _____	_____	_____	_____	87 _____	<u>70</u>
P10 _____	_____	90 _____	_____	_____	_____	90 _____	<u>71</u>
P11 _____	_____	93 _____	_____	_____	_____	93 _____	<u>72</u>
P12 _____	_____	96 _____	_____	_____	_____	96 _____	<u>73</u>
P13 _____	_____	99 _____	_____	_____	_____	99 _____	<u>74</u>
P14 _____	_____	102 _____	_____	_____	_____	102 _____	<u>75</u>
P15 _____	_____	105 _____	_____	_____	_____	105 _____	<u>76</u>
P16 _____	_____	108 _____	_____	_____	_____	108 _____	<u>77</u>
P17 _____	_____	111 _____	_____	_____	_____	111 _____	<u>78</u>
P18 _____	_____	114 _____	_____	_____	_____	114 _____	<u>79</u>
P19 _____	_____	117 _____	_____	_____	_____	117 _____	<u>80</u>
P20 _____	_____	120 _____	_____	_____	_____	120 _____	<u>81</u>
						123	<u>82</u>

PLC # 7370

6011

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TRK # 7370

6246 1251-1

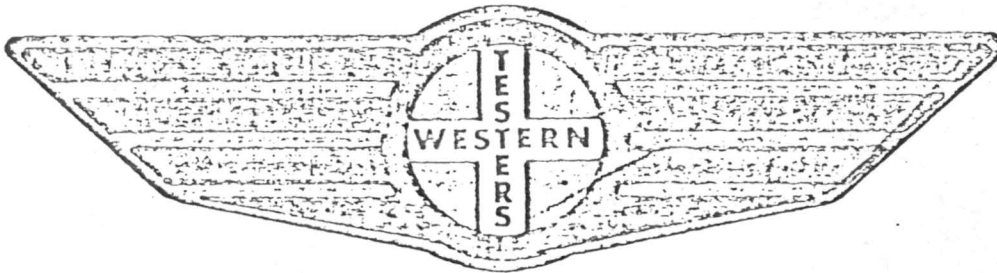
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ THE NATIONAL OIL COMPANY
Lease and Well No. _____ #4 GRUBBI
Sec. _____ 44 TWP. _____ 305 Rge. _____ L3W Test No. _____ 2 Date 1/7/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/9/84
CUSTOMER: NATIONAL OIL CO.
WELL: 4 TEST: 2
ELEVATION (KB): 1825 FORMATION: VIOLA
SECTION: 22 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

TICKET #7370
LEASE: GRIGSBY
GEOLOGIST: KEITH O.

INTERVAL TEST FROM: 4365 FT TO: 4459 FT TOTAL DEPTH: 4459 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4360 FT SIZE: 6 5/8 IN PACKER DEPTH: 4365 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: REVLIN DRLG CO.
MUD TYPE: PRE-BRIS VISCOSITY: 42
WEIGHT: 9.4 WATER LOSS (CC): 18.8
CHLORIDES (P.P.M.): 11000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4342 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 23 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 94 FT SIZE: 5 1/2 IN
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: INITIAL FLOW PERIOD WEAK STEADY BLOW
FINAL FLOW PERIOD WEAK BLOW BUT STEADY THROUGH

RECOVERED: 20 FT OF: DRILLING MUD
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: (1 STAND OF PIPE IN ANCHOR-61')

TIGHT HOLE!

TIME SET PACKER(S): 2:00 AM TIME STARTED OFF BOTTOM: 5:40 AM
WELL TEMPERATURE: 132 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2126 PSI
INITIAL FLOW PERIOD MIN: 10 (B) 31 PSI TO (C) 31 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 59 PSI
FINAL FLOW PERIOD MIN: 60 (E) 29 PSI TO (F) 29 PSI
FINAL CLOSED IN PERIOD MIN: 123 (G) 82 PSI
FINAL HYDROSTATIC PRESSURE (H) 2126 PSI



WESTERN TESTING CO., INC.
P.O. BOX 1599 — WICHITA, KANSAS 67201

WELL REPORT NO. 7371
UNIT NO.
DISTRICT 12

DATE 11/10/84

THE NATIONAL OIL COMPANY
1350 17TH STREET SUITE 300
DENVER, COLORADO 80202

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR		SECTION	TWP.	RANGE
WELL NO.	FARM	BARBER	KS	22	30S	13W
4	GRIGSBY					

DRILL STEM TEST FROM 4112' TO 4132' TOTAL DEPTH 4640' (TEST 3) \$ 595.00
STRADDLE TEST 300.00
SAFETY JOINTS 65.00
EXTRA PACKER 225.00
TOTAL \$ 1,185.00

DISCOUNT \$ 11.85	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	INVOICE NUMBER 7371
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POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7371

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 1825 K.B. Formation Eff. Pay Ft.

District PRATT Date 11-10-84 Customer Order No.
COMPANY NAME National Oil Co.

ADDRESS 1350 17th Street, Suite 300, Denver, Colo 80202

LEASE AND WELL NO. Grigsby #4 COUNTY BARBER STATE Ks Sec. 22 Twp. 30S Rge. 13W

Mail Invoice To SAME Co. Name #4 GRIGSBY Address No. Copies Requested REC

Mail Charts To SAME #4 GRIGSBY Address No. Copies Requested REC

Formation Test No. 3 Interval Tested From 4102 ft. to 4132 ft. Total Depth 4640 ft.

Packer Depth 4109 ft. Size 65/8 in. Packer Depth 4132 ft. Size 65/8 in.

Packer Depth 4107 ft. Size 65/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set Top Recorder Depth (Inside) 4105 ft. Recorder Number 6014 Cap. 5100

Bottom Recorder Depth (Outside) 4108 ft. Recorder Number 6246 Cap. 5200

Below Straddle Recorder Depth 4640 ft. Recorder Number 3086 Cap. 4500

Drilling Contractor Rawlin Drilling Co. Riv Drill Collar Length I. D. in.

Mud Type Premix Chemical Viscosity 962 Weight Pipe Length I. D. in.

Weight 9.3 Water Loss 12.0 cc. Drill Pipe Length 4577 4597 I. D. 3.8 in.

Chlorides 13.000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number 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 1/8 in. Tool Joint Size 3 1/2 4 1/2 in.

Blow: Strong blow through initial flow. Strong blow gas to surface 7 min. (See chart).

Recovered 60 ft. of Slightly gas cut drlg mud.

Recovered ft. of Chlorides P.P.M. Sample Jars used Remarks: 1508 Tail pipe - 488 Drill pipe 20' perf

Time On Location 10:30 AM PM Time Pick Up Tool 1:20 AM PM Time Off Location AM PM

Time Set Packer(s) 3:15 AM PM Time Started Off Bottom 5125 AM PM Maximum Temperature 130

Initial Hydrostatic Pressure (A) 2120 P.S.I.

Initial Flow Period Minutes 10 (B) 51 P.S.I. to (C) 38 P.S.I.

Initial Closed In Period Minutes 30 (D) 1010 P.S.I.

Final Flow Period Minutes 40 (E) 38 P.S.I. to (F) 38 P.S.I.

Final Closed In Period Minutes 60 (G) 1227 P.S.I.

Final Hydrostatic Pressure (H) 2017 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 [Signature] Signature of Customer or his authorized representative

Western Representative Mike Jutt - Thank You!

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

2075



No 4288

GAS FLOW REPORT

Date 11-10-84 Ticket #7371 Company NATIONAL Oil Co.
 Well Name and No. GRIGSBY Dst No. 3 Interval Tested 4112-4132
 County Barber State Ks Sec. 22 Twp. 30S Rg. 13W

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

SECOND FLOW

Time	P.S.I.	Size of Orifice	P.S.I. on Pitot	P.S.I. on Side Static	Description of Flow
					gas to surface 7 min.
10	2*	1/8			3.920 cfd
20	2.5*	{			4.420 {
30	4*	{			5.640 {
40	4*	{			5.640 {

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 1/2% per month, equal to 18% 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: 11-10-84 Recorder No. 6074 Capacity 5100 Test Ticket No. 7371
 Location _____ Ft. Elevation _____ Well Temperature _____ °F
 Clock No. _____

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2018</u>	P.S.I.	_____	_____	_____
B First Initial Flow Pressure	<u>38</u>	P.S.I.	First Flow Pressure	<u>10</u> Mins.	_____ Mins.
C First Final Flow Pressure	<u>38</u>	P.S.I.	Initial Closed-in Pressure	<u>36</u> Mins.	_____ Mins.
D Initial Closed-in Pressure	<u>1022</u>	P.S.I.	Second Flow Pressure	<u>40</u> Mins.	_____ Mins.
E Second Initial Flow Pressure	<u>38</u>	P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	_____ Mins.
F Second Final Flow Pressure	<u>41</u>	P.S.I.			
G Final Closed-in Pressure	<u>1232</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2018</u>	P.S.I.			

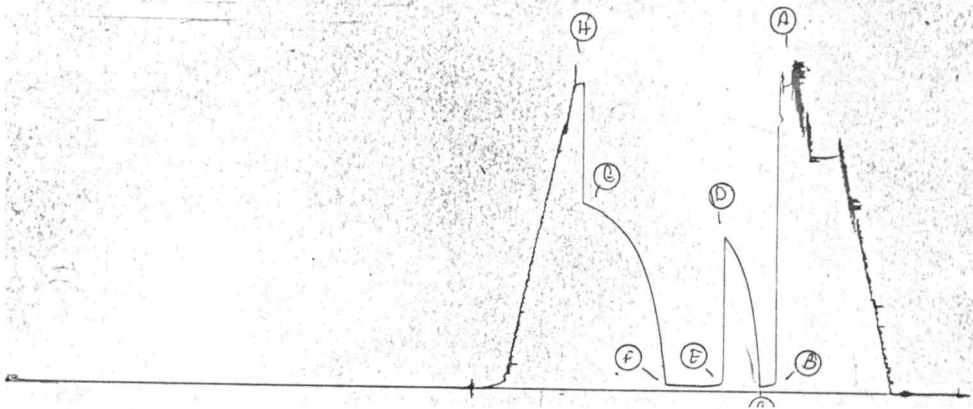
PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>16</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>23</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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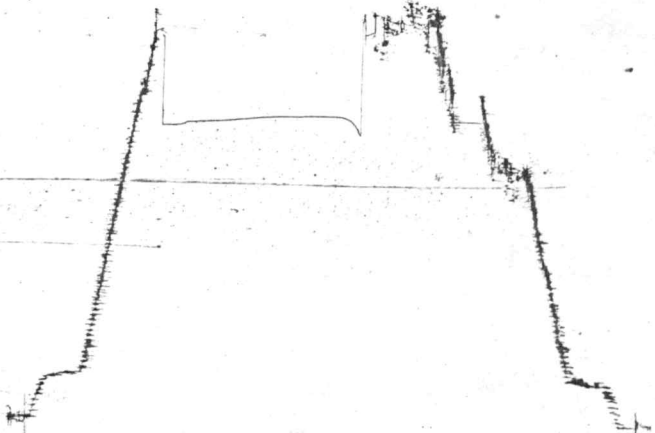
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>38</u>	0	<u>38</u>	0	<u>38</u>	0	<u>41</u>
P 2 5	<u>138</u>	3	<u>355</u>	5	<u>1</u>	3	<u>233</u>
P 3 10	<u>138</u>	6	<u>542</u>	10	<u>1</u>	6	<u>417</u>
P 4 15		9	<u>665</u>	15	<u>138</u>	9	<u>542</u>
P 5 20		12	<u>760</u>	20	<u>1</u>	12	<u>634</u>
P 6 25		15	<u>829</u>	25	<u>1</u>	15	<u>721</u>
P 7 30		18	<u>890</u>	30	<u>38</u>	18	<u>801</u>
P 8 35		21	<u>934</u>	35	<u>39</u>	21	<u>859</u>
P 9 40		24	<u>977</u>	40	<u>41</u>	24	<u>910</u>
P10 45		27	<u>1022</u>	45		27	<u>959</u>
P11 50		30		50		30	<u>995</u>
P12 55		33		55		33	<u>1028</u>
P13 60		36		60		36	<u>1059</u>
P14		39		65		39	<u>1087</u>
P15		42		70		42	<u>1110</u>
P16		45		75		45	<u>1130</u>
P17		48		80		48	<u>1151</u>
P18		51		85		51	<u>1173</u>
P19		54		90		54	<u>1185</u>
P20		57				57	<u>1200</u>
		60				60	<u>1213</u>
							<u>1223</u>
							<u>1232</u>

TKT # 7371

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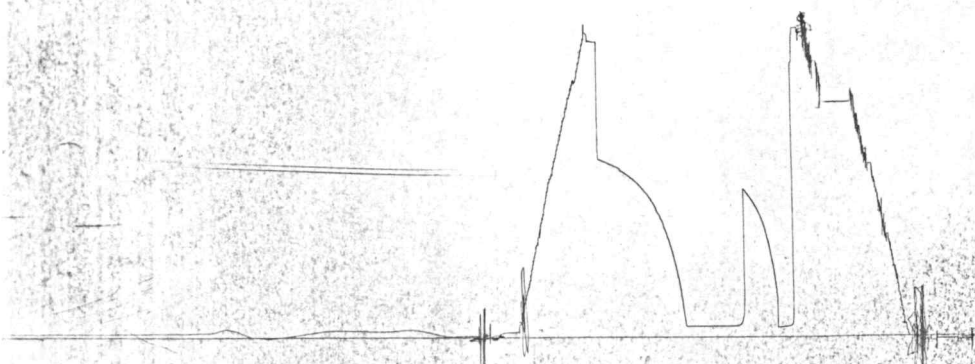


TKT # 7371
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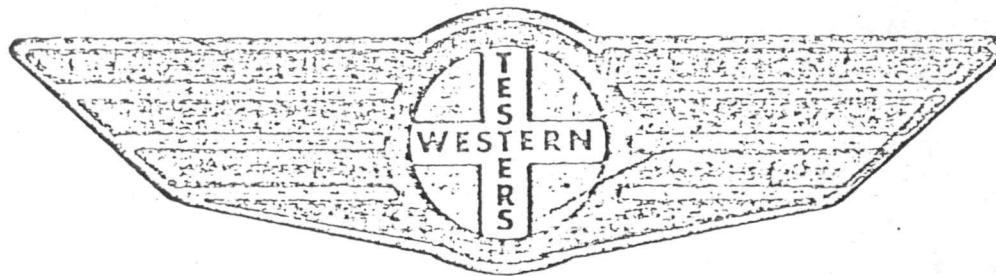


TKT # 7371

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ THE NATIONAL OIL COMPANY Lease and Well No. _____ #4 GKJSD1 _____ Sec. _____ 42 Twp. _____ 305 Rge. _____ 13W Test No. _____ 3 Datell/10/1

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/10/84
 CUSTOMER: NATIONAL OIL COMPANY
 WELL: #4 TEST: 3
 ELEVATION (KB): 1825 FORMATION:
 SECTION: 22 TOWNSHIP: 30S
 RANGE: 13W COUNTY: BARBER STATE: KANSAS
 GAUGE SN #6074 RANGE: 5100 CLOCK: 12

TICKET #7371
 LEASE: GRIGSBY
 GEOLOGIST: ?

INTERVAL TEST FROM: 4112 FT TO: 4132 FT TOTAL DEPTH: 4640 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 4107 FT SIZE: 6 5/8 IN PACKER DEPTH: 4112 FT SIZE: 6 5/8 IN
 PACKER DEPTH: 4132 FT SIZE: 6 5/8 IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: REVLIN
 MUD TYPE: PR CHEM VISCOSITY: 62
 WEIGHT: 9.3 WATER LOSS (CC): 12.0
 CHLORIDES (P.P.M.): 13000
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: FT I.D.: IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 4597 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 23 FT TOOL SIZE: 5 1/2 O.D. IN
 ANCHOR LENGTH: 20 FT SIZE: 5 1/2 O.D. IN
 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 XH IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW THROUGHOUT.
 FINAL FLOW PERIOD STRONG BLOW GAS
 TO SURFACE IN 7 MINUTES. SEE GAS SHEET.

RECOVERED: 60 FT OF: SLIGHTLY GAS CUT DRLG. MUD.
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS: 508' TAIL PIPE 488 DRILLPIPE 20' PERF.

TIME SET PACKER(S): 3:15 P.M. TIME STARTED OFF BOTTOM: 5:25 P.M.
 WELL TEMPERATURE: 130 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 2018 PSI
 INITIAL FLOW PERIOD MIN: 10 (B) 38 PSI TO (C) 38 PSI
 INITIAL CLOSED IN PERIOD MIN: 27 (D) 1022 PSI
 FINAL FLOW PERIOD MIN: 40 (E) 38 PSI TO (F) 41 PSI
 FINAL CLOSED IN PERIOD MIN: 66 (G) 1232 PSI
 FINAL HYDROSTATIC PRESSURE (H) 2018 PSI

WESTERN TESTING COMPANY INC.
GAS FLOW REPORT

DATE: 11/10/84
CUSTOMER: NATIONAL OIL COMPANY
WELL: #4
ELEVATION (KB): 1825
SECTION: 22
RANGE: 13W
GAUGE SN #6074

TEST: 3
FORMATION:
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 5100

TICKET #7371
LEASE: GRIGSBY
GEOLOGIST: ?
STATE: KANSAS
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

SECOND FLOW

10	MERLA	1/8	2 PSIG	3920 CFPD
20		▪	2.5 PSIG	4420 " "
30		▪	4 PSIG	5640 " "
40		▪	4 PSIG	5640 " "

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED:



WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE 11/11/84

THE NATIONAL OIL COMPANY
1350 17TH STREET SUITE 300
DENVER, COLORADO 80202

WELL REPORT NO. 7372
UNIT NO.
DISTRICT 12

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR	FARM	SECTION	TWP.	RANGE
4	GRIGSBY	BARBER	KS	22	30S	13W

DRILL STEM TEST FROM 4012' TO 4030' TOTAL DEPTH 4640' (TEST 4) \$ 595.00
STRADDLE TEST 300.00
SAFETY JOINTS 65.00
EXTRA PACKER 225.00

TOTAL \$ 1,185.00

DISCOUNT	1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.	PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE	INVOICE NUMBER 7372
\$ 11.85			

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 7372

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 1825 K.B Formation Eff. Pay Ft.

District Pratt Date 11-11-84 Customer Order No.

COMPANY NAME NATIONAL Oil Company

ADDRESS 1350 17th Street, Suite 200 Denver, Colo 80202

LEASE AND WELL NO. Grigsby #4 COUNTY Barber STATE Ks Sec. 22 Twp. 30s Rge. 13W

Mail Invoice To same Co. Name No. Copies Requested req

Mail Charts To same #4 GRIGSBY Address No. Copies Requested req

Formation Test No. 4 Interval Tested From 4012 ft. to 4030 ft. Total Depth 4640 ft.

Packer Depth 4007 ft. Size 6 5/8 in. Packer Depth 4030 ft. Size 6 5/8 in.

Packer Depth 4012 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4014 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 4017 ft. Recorder Number 6246 Cap. 5200

Below Saddle Recorder Depth 4640 ft. Recorder Number 3084 Cap. 4500

Drilling Contractor Reuling Drlg. Co. Rig# Drill Collar Length I. D.

Mud Type Premix Chemical Viscosity 62 Weight Pipe Length I. D.

Weight 9.3 Water Loss 12.0 cc. Drill Pipe Length 4569 4599 I. D. 3.8

Chlorides 13,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 18 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 3 1/2 IF 4 1/2 FH in.

Blow: Strong blow on initial flow. Strong blow through final flow.

Recovered 60 ft. of Drilling mud

Recovered 150 ft. of Salt water (muddy)

Recovered ft. of

Recovered ft. of

Chlorides 37,000 P.P.M. Sample Jars used Remarks: (610 tool pipe - 580' pipe 30' pers.)

TIGHT Hole

Time On Location 10:30 (11-10) AM/PM Time Pick Up Tool 1:05 AM/PM Time Off Location 10:30 AM/PM

Time Set Packer(s) 3:25 AM/PM Time Started Off Bottom 7:05 AM/PM Maximum Temperature 128°

Initial Hydrostatic Pressure (A) 2081 P.S.I.

Initial Flow Period Minutes 10 (B) 51 P.S.I. to (C) 51 P.S.I.

Initial Closed In Period Minutes 30 (D) 1418 P.S.I.

Final Flow Period Minutes 60 (E) 76 P.S.I. to (F) 140 P.S.I.

Final Closed In Period Minutes 120 (G) 1380 P.S.I.

Final Hydrostatic Pressure (H) 2005 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 [Signature] Signature of Customer or his authorized representative

Western Representative Mike Jitt Thank You!

FIELD INVOICE

Table with 2 columns: Item Name and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date 11-11-84 Recorder No. 60074 Capacity 5100 Test Ticket No. 7372 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2061</u> P.S.I.		M
B First Initial Flow Pressure	<u>54</u> P.S.I.		Mins. _____ Mins.
C First Final Flow Pressure	<u>54</u> P.S.I.		Mins. _____ Mins.
D Initial Closed-in Pressure	<u>1420</u> P.S.I.		Mins. _____ Mins.
E Second Initial Flow Pressure	<u>90</u> P.S.I.		Mins. _____ Mins.
F Second Final Flow Pressure	<u>151</u> P.S.I.		Mins. _____ Mins.
G Final Closed-in Pressure	<u>1374</u> P.S.I.		
H Final Hydrostatic Mud	<u>2000</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: 4 Inc. of 5 mins. and a final inc. of 0 Min.
 Initial Shut-In Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.
 Second Flow Pressure Breakdown: 13 Inc. of 5 mins. and a final inc. of 0 Min.
 Final Shut-In Breakdown: 45 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>0</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>90</u>	<u>0</u>	<u>151</u>
P 2	<u>5</u>	<u>3</u>	<u>384</u>	<u>5</u>	<u>190</u>	<u>3</u>	<u>343</u>
P 3	<u>10</u>	<u>6</u>	<u>780</u>	<u>10</u>	<u>190</u>	<u>6</u>	<u>474</u>
P 4	<u>15</u>	<u>9</u>	<u>1133</u>	<u>15</u>	<u>93</u>	<u>9</u>	<u>711</u>
P 5	<u>20</u>	<u>12</u>	<u>1263</u>	<u>20</u>	<u>100</u>	<u>12</u>	<u>910</u>
P 6	<u>25</u>	<u>15</u>	<u>1329</u>	<u>25</u>	<u>104</u>	<u>15</u>	<u>1033</u>
P 7	<u>30</u>	<u>18</u>	<u>1362</u>	<u>30</u>	<u>113</u>	<u>18</u>	<u>1105</u>
P 8	<u>35</u>	<u>21</u>	<u>1390</u>	<u>35</u>	<u>119</u>	<u>21</u>	<u>1153</u>
P 9	<u>40</u>	<u>24</u>	<u>1404</u>	<u>40</u>	<u>124</u>	<u>24</u>	<u>1189</u>
P10	<u>45</u>	<u>27</u>	<u>1418</u>	<u>45</u>	<u>131</u>	<u>27</u>	<u>1217</u>
P11	<u>50</u>	<u>30</u>	<u>1420</u>	<u>50</u>	<u>137</u>	<u>30</u>	<u>1240</u>
P12	<u>55</u>	<u>33</u>		<u>55</u>	<u>143</u>	<u>33</u>	<u>1264</u>
P13	<u>60</u>	<u>36</u>		<u>60</u>	<u>151</u>	<u>36</u>	<u>1278</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>1291</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>1299</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	<u>1307</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>1314</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>1321</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>1328</u>
P20		<u>57</u>				<u>57</u>	<u>1335</u>
		<u>60</u>				<u>60</u>	<u>1342</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. _____
 Recorder No. _____ Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

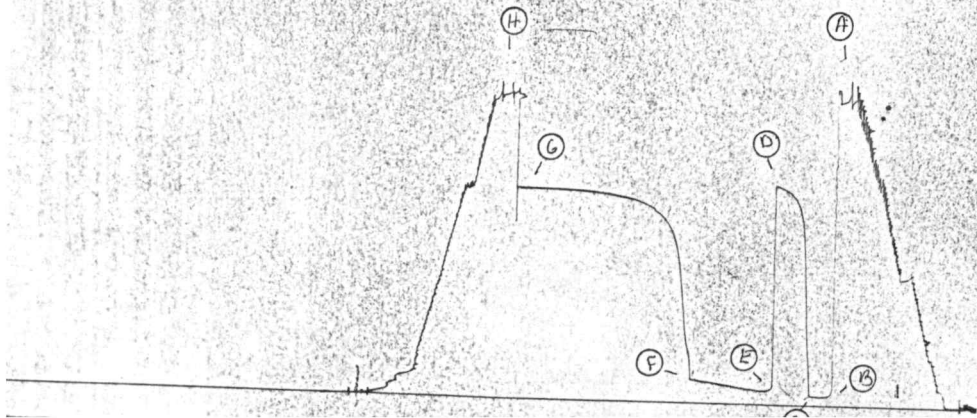
Point	Pressure	Open Tool	Time Given	Time Computed
			M	M
A Initial Hydrostatic Mud _____	P.S.I. _____	_____	_____	_____
B First Initial Flow Pressure _____	P.S.I. _____	First Flow Pressure _____	_____ Mins.	_____ Mins.
C First Final Flow Pressure _____	P.S.I. _____	Initial Closed-in Pressure _____	_____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

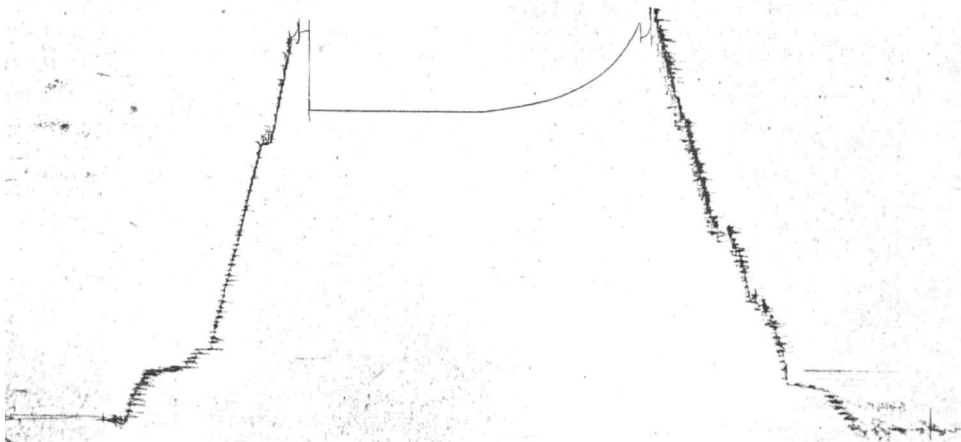
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 _____	_____	63 _____	_____	_____	_____	63 _____	1345
P 2 _____	_____	66 _____	_____	_____	_____	66 _____	1349
P 3 _____	_____	69 _____	_____	_____	_____	69 _____	1353
P 4 _____	_____	72 _____	_____	_____	_____	72 _____	1357
P 5 _____	_____	75 _____	_____	_____	_____	75 _____	1361
P 6 _____	_____	78 _____	_____	_____	_____	78 _____	1363
P 7 _____	_____	81 _____	_____	_____	_____	81 _____	1365
P 8 _____	_____	84 _____	_____	_____	_____	84 _____	1367
P 9 _____	_____	87 _____	_____	_____	_____	87 _____	1369
P10 _____	_____	90 _____	_____	_____	_____	90 _____	1371
P11 _____	_____	93 _____	_____	_____	_____	93 _____	1372
P12 _____	_____	96 _____	_____	_____	_____	96 _____	1373
P13 _____	_____	99 _____	_____	_____	_____	99 _____	1373
P14 _____	_____	102 _____	_____	_____	_____	102 _____	1374
P15 _____	_____	105 _____	_____	_____	_____	105 _____	1374
P16 _____	_____	108 _____	_____	_____	_____	108 _____	1374
P17 _____	_____	111 _____	_____	_____	_____	111 _____	1375
P18 _____	_____	114 _____	_____	_____	_____	114 _____	1375
P19 _____	_____	117 _____	_____	_____	_____	117 _____	1375
P20 _____	_____	120 _____	_____	_____	_____	120 _____	1376
						123 _____	1374
						124 _____	1374
						129 _____	1376

TKT # 7372

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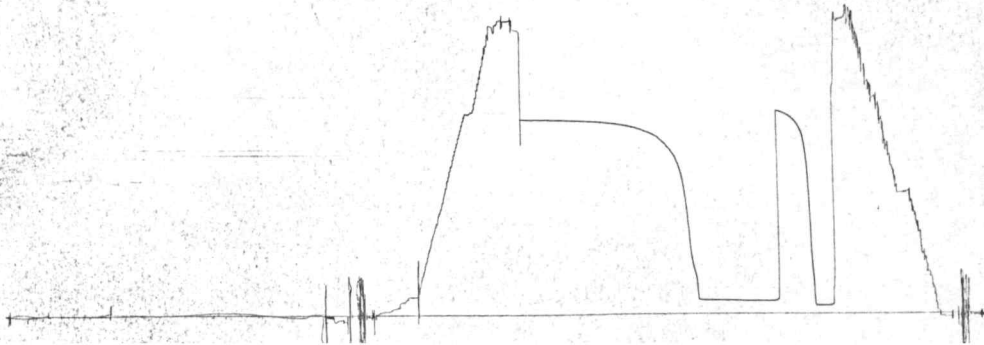
TKT # 7372
Below stradalbe



TKT # 1372

TKT # 7372

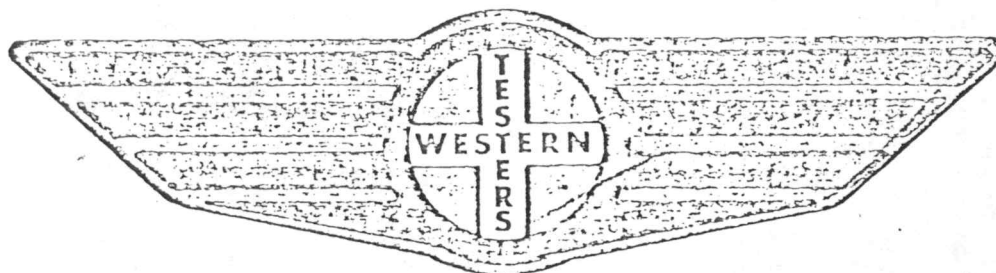
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company THE NATIONAL OIL COMPANY Lease and Well No. #4 GRIGSBY Sec. 22 Twp. 30S Rge. 13W Test No. 4 Date 11/11/83

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/11/84 TICKET #7372
CUSTOMER: NATIONAL OIL COMPANY LEASE: GRIGSBY
WELL: #4 TEST: 4 GEOLOGIST: ?
ELEVATION (KB): 1825 FORMATION:
SECTION: 22 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 4012 FT TO: 4030 FT TOTAL DEPTH: 4640 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4007 FT SIZE: 6 5/8 IN PACKER DEPTH: 4012 FT SIZE: 6 5/8 IN
PACKER DEPTH: 4030 FT SIZE: 6 5/8 IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: REVLIN
MUD TYPE: PR CHEM VISCOSITY: 62
WEIGHT: 9.3 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 13000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4599 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 23 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 18 FT SIZE: 5 1/2 O.D. IN
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 XH IN

BLOW: BOTH INITIAL & FINAL FLOW PERIODS
HAD STRONG BLOWS THROUGHOUT.

RECOVERED: 60 FT OF: DRILLING MUD.
RECOVERED: 150 FT OF: SALT WATER. MUDDY
RECOVERED: FT OF: CHLORIDES 37000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: 610 TAIL PIPE 580 DRILL PIPE 30 PERFS.

TIGHT HOLE

TIME SET PACKER(S): 3:25 A.M. TIME STARTED OFF BOTTOM: 7:05 A.M.
WELL TEMPERATURE: 128 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2061 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 56 PSI TO (C) 56 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1426 PSI
FINAL FLOW PERIOD MIN: 60 (E) 90 PSI TO (F) 151 PSI
FINAL CLOSED IN PERIOD MIN: 132 (G) 1376 PSI
FINAL HYDROSTATIC PRESSURE (H) 2000 PSI

