Company The National Oil Company — Lease & Well No. Adrain #21-10

Elevation 1542 Kelly Bushing — Formation Mississippi — Effective Pay - Ft. — Ticket No. 12841

Date 7/30/81 — Sec. 10 — Twp. 27S — Range 7W — County Kingman — State Kansas

Test Approved by George A McCaleb — Western Representative Les Holtz

Formation Test No. 1 — Interval Tested from 3802 ft. to 3810 ft. — Total Depth 3810 ft.

Packer Depth 3797 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Packer Depth 3802 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (~~Inside~~) A P Hanger 3789 ft. — Recorder Number 1051 — Cap. 4250

Bottom Recorder Depth (~~Outside~~) Inside 3806 ft. — Recorder Number 13267 — Cap. 4050

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

Drilling Contractor Graves Drilling Company — Drill Collar Length 120 — I. D. 2.26 in.

Mud Type Monpac — Viscosity 46 — Weight Pipe Length - — I. D. - in.

Weight 9.1 — Water Loss 10.8 cc. — Drill Pipe Length 3657 — I. D. 3.8 in.

Chlorides 15,000 P.P.M. — Test Tool Length 25 ft. — Tool Size 5½ in.

Jars: Make No — Serial Number - — Anchor Length 8 ft. — Size 5½ 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 4½ in.

Blow: Strong throughout test. Gas to surface in 20 minutes. See attached sheet for gas measurements.

Recovered 135 ft. of muddy water Chlorides 86,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:00 ~~P.M.~~ A.M. — Time Started Off Bottom 3:30 ~~A.M.~~ P.M. — Maximum Temperature 120

Initial Hydrostatic Pressure			(A)	1869	P.S.I.	
Initial Flow Period	Minutes 35		(B)	49	P.S.I. to (C)	62 P.S.I.
Initial Closed In Period	Minutes 51		(D)	1292	P.S.I.	
Final Flow Period	Minutes 90		(E)	64	P.S.I. to (F)	97 P.S.I.
Final Closed In Period	Minutes 51		(G)	1250	P.S.I.	
Final Hydrostatic Pressure			(H)	1814	P.S.I.	

GAS FLOW REPORT

Date 7/30/81 Ticket 12841 Company The National Oil Company

Well Name and No. Adrain #21-10 Dst No. 1 Interval Tested 3802-3810

County Kingman State Kansas Sec. 10 Twp. 27S Rg. 7W

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	23 PSIG	¼" Orifice			51,800 C.F.P.D.
	25 Min	26 PSIG	¼" Orifice			56,300 C.F.P.D.
	30 Min	28 PSIG	¼" Orifice			59,000 C.F.P.D.
			SECOND FLOW			
	10 Min	22 PSIG	¼" Orifice			50,200 C.F.P.D.
	20 Min	32 PSIG	¼" Orifice			64,600 C.F.P.D.
	30 Min	42 PSIG	¼" Orifice			78,600 C.F.P.D.
	40 Min	46 PSIG	¼" Orifice			83,900 C.F.P.D.
	50 Min	50 PSIG	¼" Orifice			89,700 C.F.P.D.
	60 Min	52 PSIG	¼" Orifice			92,500 C.F.P.D.
	70 Min	54 PSIG	¼" Orifice			95,300 C.F.P.D.
	80 Min	54 PSIG	¼" Orifice			95,300 C.F.P.D.
	90 Min	54 PSIG	¼" Orifice			95,300 C.F.P.D.

GAS BOTTLE

Serial No. 84 Date Bottle Filled 7/30/81 Date to be Invoiced 7/30/81

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.

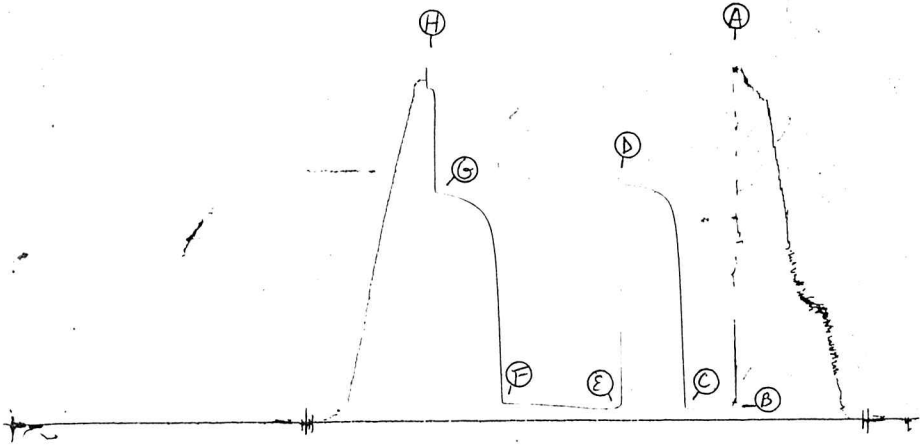
COMPANY'S NAME The National Oil Company

Authorized by George C McCaleb

FORM WTC 6

IKT # 12841

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WESTERN TESTING CO., INC.

Pressure Data

Date 7/30/81 Test Ticket No. 12841

Recorder No. 1051 Capacity 4250 Location 3789 Ft.

Clock No. - Elevation 1542 Kelly Bushing Well Temperature 120 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1869	P.S.I.
B	First Initial Flow Pressure	49	P.S.I.
C	First Final Flow Pressure	62	P.S.I.
D	Initial Closed-in Pressure	1292	P.S.I.
E	Second Initial Flow Pressure	64	P.S.I.
F	Second Final Flow Pressure	97	P.S.I.
G	Final Closed-in Pressure	1250	P.S.I.
H	Final Hydrostatic Mud	1814	P.S.I.

	Time Given	Time Computed
Open Tool	12:00A M	
First Flow Pressure	30 Mins.	35 Mins.
Initial Closed-in Pressure	45 Mins.	51 Mins.
Second Flow Pressure	90 Mins.	90 Mins.
Final Closed-in Pressure	45 Mins.	51 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 17 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 17 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.	Point	Minutes	Press.	Point	Minutes	Press.	Point	Minutes	Press.
P 1	0	49		0	62		0	64		0	97
P 2	5	49		3	557		5	64		3	640
P 3	10	49		6	930		10	64		6	932
P 4	15	49		9	1093		15	64		9	1049
P 5	20	52		12	1165		20	65		12	1099
P 6	25	54		15	1207		25	67		15	1137
P 7	30	58		18	1229		30	69		18	1159
P 8	35	62		21	1241		35	73		21	1178
P 9				24	1254		40	77		24	1190
P10				27	1263		45	80		27	1201
P11				30	1269		50	82		30	1214
P12				33	1275		55	85		33	1222
P13				36	1280		60	88		36	1229
P14				39	1284		65	90		39	1235
P15				42	1288		70	91		42	1241
P16				45	1290		75	92		45	1246
P17				48	1291		80	94		48	1248
P18				51	1292		85	96		51	1250
P19							90	97			
P20											

Company The National Oil Company — Lease & Well No. Adrain #21-10

Elevation 1542 Kelly Bushing — Formation Viola — Effective Pay - Ft. — Ticket No. 12842

Date 8/1/81 — Sec. 10 — Twp. 27S — Range 7W — County Kingman — State Kansas

Test Approved by George A McCaleb — Western Representative Les Holtz

Formation Test No. 2 — Interval Tested from 4130 ft. to 4138 ft. — Total Depth 4138 ft.

Packer Depth 4125 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Packer Depth 4130 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth ~~(Inside)~~ A P Hanger 4116 ft. — Recorder Number 1051 — Cap. 4250

Bottom Recorder Depth ~~(Outside)~~ Inside 4131 ft. — Recorder Number 13267 — Cap. 4050

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

Drilling Contractor Graves Drilling Company — Drill Collar Length 120 — I. D. 2.26 in.

Mud Type Monpac — Viscosity 49 — Weight Pipe Length - — I. D. - in.

Weight 9.6 — Water Loss 9.2 cc. — Drill Pipe Length 3985 — I. D. 3.8 in.

Chlorides 18,000 P.P.M. — Test Tool Length 25 ft. — Tool Size 5½ in.

Jars: Make No — Serial Number - — Anchor Length 8 ft. — Size 5½ 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 4½ in.

Blow: Weak throughout test. Died in 22 minutes final flow period.

Recovered 185 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid tool 5 ft to bottom.

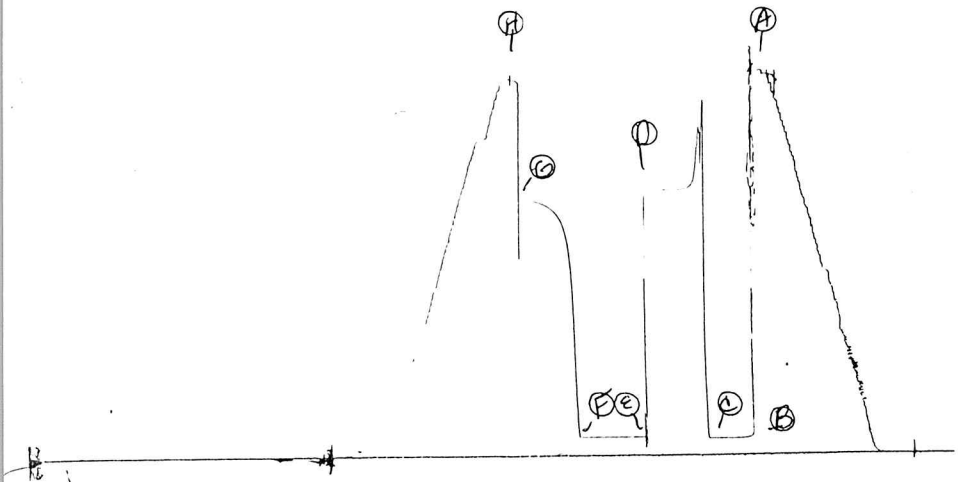
Time Set Packer(s) 1:30 ~~A.M.~~ ~~P.M.~~ — Time Started Off Bottom 4:15 ~~A.M.~~ ~~P.M.~~ — Maximum Temperature 122

Initial Hydrostatic Pressure			(A)	2094	P.S.I.	
Initial Flow Period	Minutes	30	(B)	84	P.S.I. to (C)	84 P.S.I.
Initial Closed In Period	Minutes	51	(D)	1425*	P.S.I.	
Final Flow Period	Minutes	50	(E)	97	P.S.I. to (F)	97 P.S.I.
Final Closed In Period	Minutes	48	(G)	1379	P.S.I.	
Final Hydrostatic Pressure			(H)	2038	P.S.I.	

WTC-1

TKt #12842

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WESTERN TESTING CO., INC.

Pressure Data

Date 8/1/81 Test Ticket No. 12842

Recorder No. 1051 Capacity 4250 Location 4116 Ft.

Clock No. - Elevation 1542 Kelly Bushing Well Temperature 122 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2094	P.S.I.
B	First Initial Flow Pressure	84	P.S.I.
C	First Final Flow Pressure	84	P.S.I.
D	Initial Closed-in Pressure	1425*	P.S.I.
E	Second Initial Flow Pressure	97	P.S.I.
F	Second Final Flow Pressure	97	P.S.I.
G	Final Closed-in Pressure	1379	P.S.I.
H	Final Hydrostatic Mud	2038	P.S.I.

	Time Given	Time Computed
Open Tool	1:30A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	51 Mins.
Second Flow Pressure	45 Mins.	50 Mins.
Final Closed-in Pressure	45 Mins.	48 Mins.

*Pressures questionable due to tool being picked up too high.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	84
P 2 5	84
P 3 10	84
P 4 15	84
P 5 20	84
P 6 25	84
P 7 30	84
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 17 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	84
3	355
6	964
9	1735*
12	1664*
15	1470*
18	1439*
21	1428*
24	1425*
27	1425*
30	1425*
33	1425*
36	1425*
39	1425*
42	1425*
45	1425*
48	1425*
51	1425*

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

Point Minutes	Press.
0	97
5	97
10	97
15	97
20	97
25	97
30	97
35	97
40	97
45	97
50	97

Final Shut-In
Breakdown: 16 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	97
3	353
6	687
9	966
12	1131
15	1214
18	1260
21	1294
24	1320
27	1335
30	1347
33	1358
36	1366
39	1370
42	1375
45	1377
48	1379