Company DuPont Oil Company — Lease & Well No. Gatton #1

Elevation 1341 Kelly Bushing — Formation Layton — Effective Pay - Ft. — Ticket No. 3669

Date 5/16/80 — Sec. 34 — Twp. 31S — Range 6W — County Cowley — State Kansas

Test Approved by M. M. Mace — Western Representative Kenny Kirkendall

Formation Test No. 1 — Interval Tested from 2126 ft. to 2174 ft. — Total Depth 2174 ft.

Packer Depth 2126 ft. — Size 5 in. — Packer Depth - ft. — Size - in.

Packer Depth 2121 ft. — Size 5 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2156 ft. — Recorder Number 5666 — Cap. 3950

Bottom Recorder Depth (Outside) 2160 ft. — Recorder Number 2605 — Cap. 4150

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

Drilling Contractor Edco Drilling Rig #1 — Drill Collar Length 350 — I. D. - in.

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

Weight 9.1 — Water Loss 12 cc. — Drill Pipe Length 1748 — I. D. - in.

Chlorides 1,400 P.P.M. — Test Tool Length 28 ft. — Tool Size 4½ in.

Jars: Make WTC — Serial Number 405 — Anchor Length 48 ft. — Size - in.

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

Main Hole Size 6¼ in. — Tool Joint Size 3½IF in.

Blow: Fair blow throughout test.

Recovered 90 ft. of very slightly oil cut mud

Recovered 90 ft. of muddy salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:45 A.M. P.M. — Time Started Off Bottom 10:45 A.M. P.M. — Maximum Temperature 87°

Initial Hydrostatic Pressure			(A)	1065	P.S.I.	
Initial Flow Period	Minutes 25	(B)	63	P.S.I. to (C)	102	P.S.I.
Initial Closed In Period	Minutes 30	(D)	571	P.S.I.		
Final Flow Period	Minutes 30	(E)	138	P.S.I. to (F)	122	P.S.I.
Final Closed In Period	Minutes 45	(G)	557	P.S.I.		
Final Hydrostatic Pressure		(H)	1055	P.S.I.		

5666

3669

R#3669
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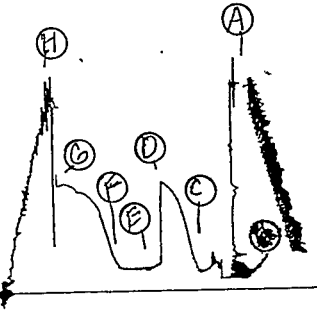

WESTERN TESTING CO., INC.
Pressure Data

Date 5-16-80 Test Ticket No. 3669

Recorder No. 5666 Capacity 3950 Location 2156 Ft.

Clock No. - -- Elevation 1341 Kelly Bushing Well Temperature 87 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1065 P.S.I.		Open Tool	8:45 P. M	
B	First Initial Flow Pressure	63 P.S.I.		First Flow Pressure	30 Mins.	25 Mins.
C	First Final Flow Pressure	102 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	571 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	138 P.S.I.		Final Closed-in Pressure	30 Mins.	45 Mins.
F	Second Final Flow Pressure	122 P.S.I.				
G	Final Closed-in Pressure	557 P.S.I.				
H	Final Hydrostatic Mud	1055 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	63
P 2 5	66
P 3 10	66
P 4 15	Plugging Action
P 5 20	" "
P 6 25	102
P 7 30	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	102
3	130
6	181
9	279
12	369
15	436
18	491
21	525
24	547
27	561
30	571

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

Point Minutes	Press.
0	138
5	128
10	118
15	118
20	118
25	118
30	122

Final Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	122
3	157
6	193
9	277
12	342
15	420
18	455
21	481
24	503
27	515
30	523
33	537
36	553
39	559
42	566
45	557

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 3669

Elevation 1341 KB Formation Layton Eff. Pay Ft.

District Augusta Date 5/16/80 Customer Order No.

COMPANY NAME Dupont Oil Company

ADDRESS 660 Edgewater Road / Wichita, Ks.

LEASE AND WELL NO. Layton #1 COUNTY Cowley STATE Ks Sec 34 Twp 31S Rge 6W

Mail Invoice To Same (Co. Name) (Address) No. Copies Requested 1

Mail Charts To Same (Address) No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2126 ft. to 2174 ft. Total Depth 2174 ft.

Packer Depth 2126 ft. Size 5 3/4 in. Packer Depth ft. Size in.

Packer Depth 2121 ft. Size 5 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2156 ft. Recorder Number 56616 Cap. 3950

Bottom Recorder Depth (Outside) 2160 ft. Recorder Number 2605 Cap. 4150

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Eller 1 Drill Collar Length 350 I. D. in.

Mud Type Chem Viscosity 49 Weight Pipe Length I. D. in.

Weight 9.1 Water Loss 12 cc. Drill Pipe Length 1748 I. D. in.

Chlorides 1400 P.P.M. Test Tool Length 28 ft. Tool Size 4 1/2 in.

Jars: Make WTC Serial Number 405 Anchor Length 48 ft. Size in.

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

Main Hole Size 6 3/4 in. Tool Joint Size 3 1/2 IF in.

Blow: four blows through out test

Recovered 90 ft. of Very slightly oil cut mud

Recovered 90 ft. of Muddy salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED MAY 19 1980

On location 6:30 PM. pick up Tools 7.00, Job completed 1 AM

Time Set Packer(s) 8:45 ~~A.M.~~ P.M. Time Started Off Bottom 10:45 A.M. P.M. Maximum Temperature 87°

Initial Hydrostatic Pressure		(A)	1047	P.S.I.	
Initial Flow Period	Minutes 30	(B)	61	P.S.I. to (C)	102 P.S.I.
Initial Closed In Period	Minutes 30	(D)	559	P.S.I.	
Final Flow Period	Minutes 30	(E)	122	P.S.I. to (F)	122 P.S.I.
Final Closed In Period	Minutes 30	(G)	559	P.S.I.	
Final Hydrostatic Pressure		(H)	1047	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 M. M. Mace
Signature of Customer or his authorized representative

Western Representative Kenny Kirkendall

FIELD INVOICE

Open Hole Test	$	550.00
Misrun	$	
Straddle Test	$	
Jars	$	300.00
Selective Zone	$	
Safety Joint	$	50.00
Standby	$	
Evaluation	$	
Extra Packer	$	
Circ. Sub.	$	
45 Mileage X 754	$	33.75
Fluid Sampler	$	
Extra Charts	$	
TOTAL	$	933.75

WESTERN TESTING CO., INC.
Pressure Data

Date 5-16-80 Test Ticket No. 3669

Recorder No. 5666 Capacity 3950 Location 2156 Ft.

Clock No. Elevation 1341 K.B. Well Temperature 87 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1065 P.S.I.	Open Tool	8:45 P M	
B First Initial Flow Pressure	63 P.S.I.	First Flow Pressure	30 Mins.	25 Mins.
C First Final Flow Pressure	102 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	571 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	138 P.S.I.	Final Closed-in Pressure	30 Mins.	45 Mins.
F Second Final Flow Pressure	122 P.S.I.			
G Final Closed-in Pressure	557 P.S.I.			
H Final Hydrostatic Mud	1055 P.S.I.			

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	63
P 2	5	66
P 3	10	66
P 4	15	98
P 5	20	149
P 6	25	91 102
P 7	30	
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	130 102
3	181 130
6	279 181
9	369 279
12	436 369
15	491 436
18	525 491
21	547 525
24	561 547
27	571 561
30	571
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

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

Point Minutes	Press.
0	138
5	128
10	118
15	118
20	118
25	118
30	122
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	122
3	157
6	193
9	277
12	342
15	420
18	455
21	481
24	503
27	515
30	523
33	537
36	553
39	559
42	566
45	557
48	
51	
54	
57	
60	