

PHONE  
316 / 824-7340

ORIGINAL

DEAN'S TESTERS INC.

P. O. BOX 1182  
LIBERAL, Ks. 67901

Information Toronto Type Test Conventional Date April 17, 1993  
 Anchor Length and Size 38' X 4 1/2" OD-Perf. Total Depth 4326'  
 Casing Depths 4283' & 4388' Below Straddle Choke Size Bottom 5/8" Surface 1/4"  
 Equipment Run 2 Packers, Jars, Sample Chamber, Safty joint, Circ. sub.

Lengths: Tool 71' D. P. 3567' ID 3.8" Wt. P. ID D. C. 624' ID 2.25"  
 Mud Type Chemical Vls. 43 Wt. 9.0 Wtr. Loss 9.4 Cl. 5200 ppm

Recorders:  
 Depth 4315' Make Kuster Cap. 6400 Ser. No. 13373 Inside  
 Depth 4324' Make Kuster Cap. 6450 Ser. No. 6064 Outside  
 Depth \_\_\_\_\_ Make \_\_\_\_\_ Cap. \_\_\_\_\_ Ser. No. \_\_\_\_\_ Below Straddle

Pressures:

Tool on Bottom @ 5:07 P.M. Initial Hydrostatic 2025 psi  
 Initial Flow 30 Min. IFP 96 psi to 212 psi  
 Initial Shut-in 60 Min. ISIP 980 psi  
 Final Flow 60 Min. FFP 293 psi to 390 psi  
 Final Shut-in 120 Min. FSIP 977 psi  
 Tool off Bottom @ 9:37 P.M. Final Hydrostatic 2006 psi Temp. 105°F.

KCC  
JUL 8  
CONFIDENTIAL

Blow: Strong on I.F.P., Weak increasing to strong on F.F.P.

Recovery: 845' Total Fluid. (6.12 bbl.)  
90' Slightly Gas Cut Mud. (1.24 bbl.)  
755' Slightly Gas Cut Salt Water. (4.88 bbl.)

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Gas Flow:

Sampler Data:

Pressure 320 PSI  
 Gas Trace cu. ft.  
 Total Fluid 2000 cc  
 Oil --- cc  
 Water 1800 cc  
 Mud 200 cc  
 Oil Gravity \_\_\_\_\_ @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_

Remarks:

Fluid Analysis:  

	PPM Cl.	Ph.	S.G.	Rw.
Pit:	5,000	9	1.010	.80 @ 65°F.
Top:	14,000	9	1.025	.30 @ 65°F
Middle:	95,000	7	1.165	.06 @ 65°F
Bottom:	118,000	7	1.205	.05 @ 65°F
Sampler:	118,000	7	1.205	.05 @ 65°F

Tester Butch Young Witnessed by: Jim Tull

SEC. 8  
TWP. 33S  
RGE. 31W  
COUNTY Seward  
STATE Kansas

Operator  
Cahoon Oil & Gas Corporation

WELL NAME & NO.  
McVey #1-8

TEST #  
1

TEST INTERVAL  
4288' - 4326'

TICKET NO. 3266

**Pressure Break Down**

**ORIGINAL**

Test ticket no. 3266 Recorder no. 13373 Capacity 6400 Rec. Depth. 4315'

Initial Flow pressure <u>96</u> to <u>212</u>	Time	Given <u>30</u>	Computed <u>30</u>
Initial Closed in pressure <u>980</u>	<b>KCC</b>	<u>60</u>	<u>60</u>
Final Flow pressure <u>293</u> to <u>390</u>	<b>JUL 8</b>	<u>60</u>	<u>60</u>
Final Closed-in pressure <u>977</u>	<b>CONFIDENTIAL</b>	<u>120</u>	<u>120</u>
Initial Hydrostatic pressure <u>2025</u>	Final Hydrostatic press. <u>2006</u>	Temp <u>105°F</u>	

**Initial Flow Press.**

Minutes	Press
0	96
5	
10	106
15	
20	158
25	
30	212
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

**Initial Closed in Press.**

Minutes	Press
0	212
3	
6	819
9	
12	893
15	
18	925
21	
24	945
27	
30	954
33	
36	961
39	
42	967
45	
48	974
51	
54	977
57	
60	980
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

**Final Flow Press**

Minutes	Press
0	293
5	
10	300
15	
20	
25	
30	319
35	
40	345
45	
50	364
55	
60	390
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

**Final Closed in Press.**

Minutes	Press
0	390
3	
6	819
9	
12	880
15	
18	906
21	
24	922
27	
30	932
33	
36	938
39	
42	945
45	
48	951
51	
54	954
57	
60	957
63	
66	961
69	
72	964
75	
78	964
81	
84	967
87	
90	967
93	
96	970
99	
102	970
105	
108	974
111	
114	974
117	
120	977

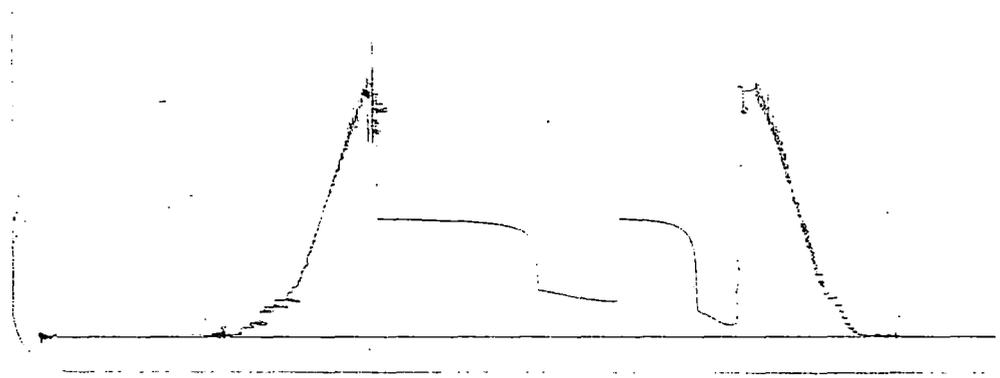
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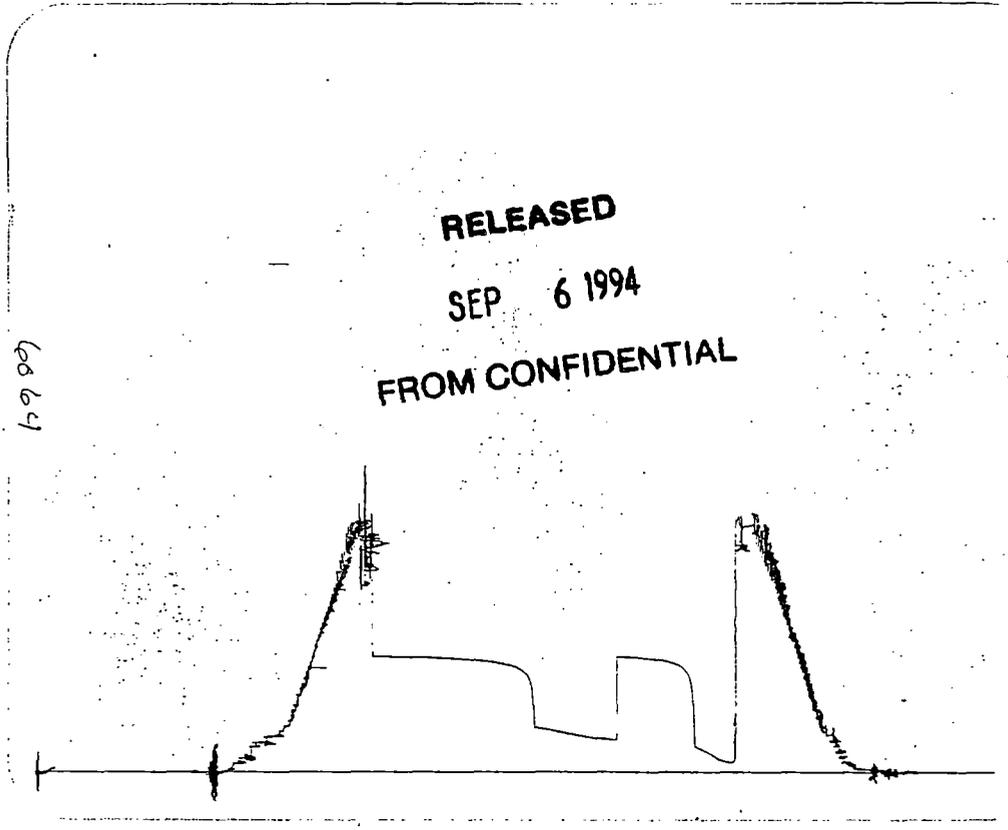
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316 /  
Forma  
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Fir  
Too  
Blow  
Reco  
Gas  
Samp  
Pressur  
Gas  
Total FI  
Oil  
Wa  
Mu  
Oil Gra  
Gas/O  
Tester  
U-T-10 L

KCC  
JUL 8  
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Initial Hydrostatic \_\_\_\_\_ 2025 \_\_\_\_\_ psi  
 IFP \_\_\_\_\_ 96 \_\_\_\_\_ psi to \_\_\_\_\_ 212 \_\_\_\_\_ psi  
 ISIP \_\_\_\_\_ 980 \_\_\_\_\_ psi  
 FFP \_\_\_\_\_ 293 \_\_\_\_\_ psi to \_\_\_\_\_ 390 \_\_\_\_\_ psi  
 FSIP \_\_\_\_\_ 977 \_\_\_\_\_ psi  
 Final Hydrostatic \_\_\_\_\_ 2006 \_\_\_\_\_ psi



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SEC. 8  
TWP. 33S  
RGE. 31W

Cabot Oil & Gas Corporation  
OPERATOR  
McVey #1-8  
WELL NAME & NO.

Formation Marmaton Type Test Conventional Date April 19, 1993  
Anchor Length and Size 14' X 4 1/2" OD-Perf. Total Depth 5043'  
Packer Depths 5024' & 5029' Below Straddle Choke Size Bottom 5/8" Surface 1/4"  
Equipment Run 2 Packers, Jars, Sample Chamber, Safty joint, Circ. sub.

Lengths: Tool 52' D. P. 4389' ID 3.8" Wt. P. ID D. C. 624' ID 2.25"  
Mud Type Chemical Vls. 43 Wt. 8.9 Wtr. Loss 9.0 Cl. 3600 ppm

Recorders: Depth 5017' Make Kuster Cap. 6500 Ser. No. 10269 Inside  
Depth 5041' Make Kuster Cap. 6800 Ser. No. 10217 Outside  
Depth \_\_\_\_\_ Make \_\_\_\_\_ Cap. \_\_\_\_\_ Ser. No. \_\_\_\_\_ Below Straddle

### Pressures:

Tool on Bottom @ 4:09 P.M. Initial Hydrostatic 2427 psi  
Initial Flow 30 Min. IFP 83 psi to 129 psi  
Initial Shut-In 60 Min. ISIP 1588 psi  
Final Flow 60 Min. FFP 235 psi to 248 psi  
Final Shut-In 126 Min. FSIP 1591 psi  
Tool off Bottom @ 8:40 P.M. Final Hydrostatic 2424 psi Temp. 116°F

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CONFIDENTIAL

Blow: Weak increasing to strong on both flow periods.  
Gas to surface in 55 min. into F.F.P. (85 min. Total open time) Too small to measure.

Recovery: 655' Total Fluid. (3.47 bbl.)  
100' Oil. (0.75 bbl.)  
90' Oil & Gas Cut Mud. (0.44 bbl.)  
90' Oil & Gas Cut Muddy Water. (0.44 bbl.)  
90' Muddy Salt Water. (0.44 bbl.)  
285' Salt Water. (1.40 bbl.)

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Gas Flow: Too small to measure.

### Sampler Data:

Pressure 180 PSI  
Gas 0.17 cu. ft.  
Total Fluid 1700 cc  
Oil 150 cc  
Water 1550 cc  
Mud \_\_\_\_\_ cc  
Oil Gravity API 40.5 @ 60 °F.  
Gas/Oil Ratio \_\_\_\_\_

### Remarks:

Fluid analysis:  
PPM Cl. Ph. S.G. Rw.  
Pit: 3400 9 1.005 1.40 @ 60°F  
Top: 26,000 8 1.045 .20 @ 60°F  
Middle: 92,000 7 1.160 .07 @ 60°F  
Bottom: 111,000 7 1.195 .06 @ 60°F  
Sampler: 111,000 7 1.195 .06 @ 60°F

Tester Butch Young Witnessed by: Jim Tull

COUNTY Seward  
STATE KANSAS  
TICKET NO. 3532

TEST # 2  
TEST INTERVAL 5029 - 5043

**Pressure Break Down**

Test ticket no. 3532 Recorder no. 10269 Capacity 6500 Rec. Depth. 5017'

Initial Flow pressure 83 to 129 Initial Closed in pressure 1588  
 Final Flow pressure 235 to 248 Final Closed-in pressure 1591  
 Initial Hydrostatic pressure 2427 Final Hydrostatic press. 2424 Temp 116

**COPY**  
Time

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Given  
30  
60  
60  
120  
126

Computed  
32  
60  
60  
126

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**SEP 6 1994**

**FROM CONFIDENTIAL**

Initial Flow Press.		Initial Closed in Press.		Final Flow Press		Final Closed in Press.	
Minutes	Press	Minutes	Press	Minutes	Press	Minutes	Press
0	--	0	129	0	--	0	248
5	83	3	954	5	235	3	
10	83	6	1302	10	235	6	1257
15	90	9	1421	15	235	9	
20	100	12	1453	20	235	12	1395
25	116	15	1475	25	235	15	
30	125	18	1498	30	235	18	1456
32 <del>35</del>	129	21	1514	35	235	21	
40		24	1527	40	235	24	1495
45		27	1536	45	238	27	
50		30	1543	50	241	30	1517
55		33	1549	55	245	33	
60		36	1556	60	248	36	1533
65		39	1562	65		39	
70		42	1569	70		42	1543
75		45	1575	75		45	
80		48	1578	80		48	1553
85		51	1581	85		51	
90		54	1585	90		54	1559
95		57	1585	95		57	
100		60	1588	100		60	1565
105		63		105		63	
110		66		110		66	1572
115		69		115		69	
120		72		120		72	1575
		75		125		75	
		78		130		78	1578
		81		135		81	
		84		140		84	1578
		87		145		87	
		90		150		90	1581
		93		155		93	
		96		160		96	1581
		99		165		99	
		102		170		102	1585
		105		175		105	
		108		180		108	1585
		111				111	
		114				114	1588
		117				117	
		120				120	1588
						126	1591

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KCC

JUL 8

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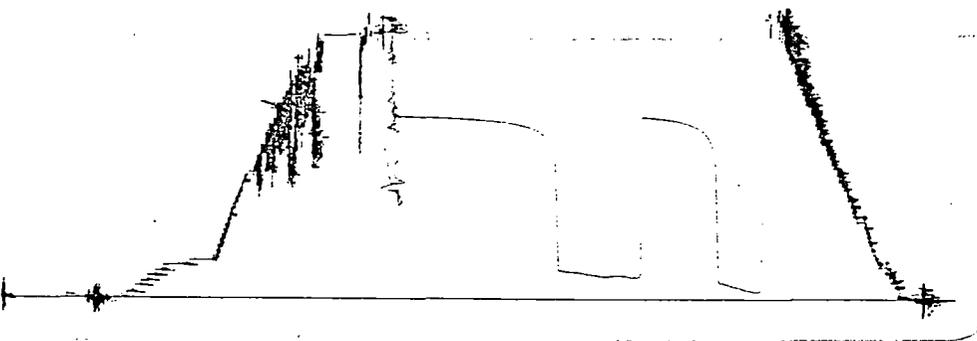
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Initial Hydrostatic	2427	psi
IFP	83	psi to 129
ISIP	1588	psi
FFP	235	psi to 248
FSIP	1591	psi
Final Hydrostatic	2424	psi

277



PHONE 316 / 624

Format

Anchor

Packer

Equipm

Lengths:

Mud Typ

Recon

Press

Tool

Initia

Initia

Fin

Fin

Tool

Blow:

Recov

Gas F

Samp

Pressure

Gas

Total Flu

Oil

Water

Mud

Oil Grav

Gas/Oil

Tester

F-10 L

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## DEAN'S TESTERS INC.

P. O. BOX 1182  
LIBERAL, Ks. 67901

PHONE  
316 / 624-7340

Information Morrow Type Test Conventional Date April 21, 1993  
 Anchor Length and Size 44' X 4 1/2" OD-Perf. Total Depth 5636'  
 Tracker Depths 5587' & 5592' Below Straddle \_\_\_\_\_ Choke Size Bottom 5/8" Surface 1/4"  
 Equipment Run 2 Packers, Jars, Sample Chamber, Safty joint, Circ. sub.

Lengths: Tool 77' D. P. 4950' ID 3.8" Wt. P. \_\_\_\_\_ ID \_\_\_\_\_ D. C. 624' ID 2.25"  
 Mud Type Chemical Vls. 48 Wt. 9.0 Wtr. Loss 9.0 Cl. 2700 ppm

Recorders: Depth 5521' Make Kuster Cap. 6400 Ser. No. 13373 Inside  
 Depth 5531' Make Kuster Cap. 6450 Ser. No. 6064 Outside  
 Depth \_\_\_\_\_ Make \_\_\_\_\_ Cap. \_\_\_\_\_ Ser. No. \_\_\_\_\_ Below Straddle

### Pressures:

Tool on Bottom @ <u>5:15 PM.</u>	Initial Hydrostatic <u>2690</u> psi	<b>KCC</b> <b>JUL 8</b> <b>CONFIDENTIAL</b>
Initial Flow <u>30</u> Min.	IFP <u>64</u> psi to <u>64</u> psi	
Initial Shut-In <u>60</u> Min.	ISIP <u>77</u> psi	
Final Flow <u>60</u> Min.	FFP <u>64</u> psi to <u>64</u> psi	
Final Shut-In <u>120</u> Min.	FSIP <u>119</u> psi	
Tool off Bottom @ <u>9:45 PM.</u>	Final Hydrostatic <u>2674</u> psi Temp. <u>122°F.</u>	

Blow: Weak increasing slightly on I.F.P., Very weak & intermittent on F.F.P.

Recovery: 30' Mud.

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### Gas Flow:

#### Sampler Data:

Pressure 22 PSI  
 Gas none cu. ft.  
 Total Fluid 2000 cc  
 Oil -- cc  
 Water -- cc  
 Mud 2000 cc  
 Oil Gravity \_\_\_\_\_ @ \_\_\_\_\_ °F.  
 Gas/Oil Ratio \_\_\_\_\_

#### Remarks:

Fluid Analysis:

	PPM Cl.	Ph.	S.G.	Rw.
Pit.	3,000	9	1.005	1.30 @ 65°F
Tool	3,000	9	1.005	1.30 @ 65°F.
Sampler	3,000	9	1.005	1.30 @ 65°F.

Tester Dean Blagrave Witnessed by: Jim Tull

SEC. 8  
TWP. 33S  
RGE. 31W  
COUNTY Seward  
STATE KANSAS  
TICKET NO. 3269

Cabot Oil & Gas Corporation  
 OPERATOR  
 McVey #1-8  
 WELL NAME & NO.  
 TEST # 3  
 TEST INTERVAL 5592' - 5636'

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JUL 8

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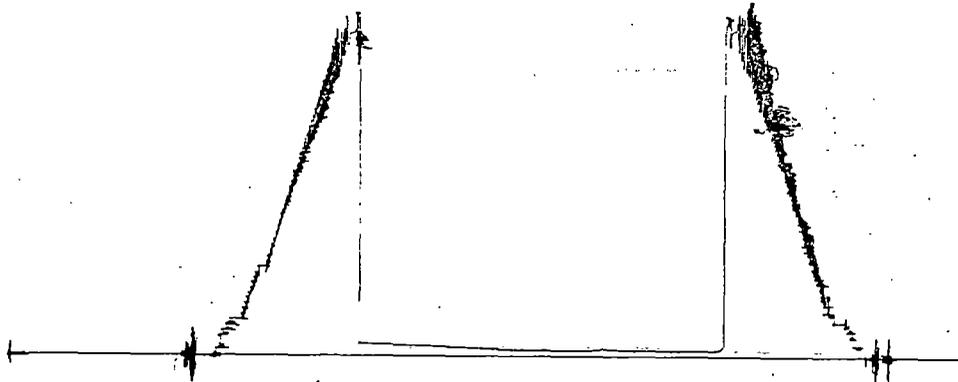
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SEP 6 1994

FROM CONFIDENTIAL

Initial Hydrostatic	2690	psi
IFP	64	psi to 64 psi
ISIP	77	psi
FFP	64	psi to 64 psi
FSIP	119	psi
Final Hydrostatic	2674	psi

CD&F



PHONE 318 / 824

Format

Anchor

Packer

Equipm

Lengths:

Mud Type

Reco

Press

Too

Init

Init

Fi

Fin

Too

Blow

Reco

Gas

Sam

Pressur

Gas

Total F

Ol

W

M

Oil Gr

Gas/C

Tester

D7-10