PHONE
316 / 624-7340

DEAN'S TESTERS INC. CONFIDENTIAL

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Morrow Type Test Conventional Date September 11, 1993

Anchor Length and Size 19' X 4½" OD-Perf. Total Depth 6000'

Packer Depths 5976' & 5981' Below Straddle Choke Size Bottom 5/8" Surface 1/4"

Equipment Run 2 Packers, Jars, Sample Chamber, Safety joint, Circ. sub.

ORIGINAL

Lengths: Tool 52' D. P. 5326' ID 3.8" Wt. P. ID D. C. 655' ID 2.25"

Mud Type Chemical Vis. 53 Wt. 9.1 Wtr. Loss 6.8 Cl. 1800 ppm

Recorders:

Depth 5992'	Make Kuster	Cap. 6500	Ser. No. 10269	Inside
Depth 5997'	Make Kuster	Cap. 6800	Ser. No. 10217	Outside
Depth	Make	Cap.	Ser. No.	Below Straddle

Pressures:

Tool on Bottom @	8:45 PM.	Initial Hydrostatic	2839	psi	
Initial Flow	30 Min.	IFP	48 psi to 48	psi	
Initial Shut-In	60 Min.	ISIP	348	psi	
Final Flow	60 Min.	FFP	48 psi to 48	psi	
Final Shut-In	120 Min.	FSIP	1476	psi	
Tool off Bottom @	1:15 AM.	Final Hydrostatic	2839	psi	Temp. 135°F.

KCC
NOV 1
CONFIDENTIAL

Blow: Strong throughout test.

Recovery: 30' Gas Cut Mud.

RELEASED
JAN 11 1996
FROM CONFIDENTIAL

Gas Flow:

Sampler Data:

Pressure 38 PSI
Gas 0.03 cu. ft.
Total Fluid 2000 cc
Oil -- cc
Water -- cc
Mud 2000 cc
Oil Gravity @ °F.
Gas/Oil Ratio

Remarks:

Fluid Analysis:

	Cl PPM	S.G.	Ph.	Rw.
Pit:	1800	1.000	9	2.0 @ 70°F
Pipe:	2100	1.000	9	2.0 @ 70°F
Sampler:	2100	1.000	9	2.0 @ 70°F.

Tester Butch Young Witnessed by: Jim Tull

DT-10 Liberal Office Machines

SEC. 2 TWP. 34S RGE. 34W

Cabot Oil & Gas Corporation
OPERATOR

Rw-nw

Keating-Stephans #4-2
WELL NAME & NO.

COUNTY Seward STATE Kansas

1
TEST #

TICKET NO. 3559

5981' - 6000'
TEST INTERVAL
IN

Pressure Break Down

Test ticket no. 3559 Recorder no. 10269 Capacity 6500 Rec. Depth. 5992'

Initial Flow pressure 48 to 48

Initial Closed in pressure 348

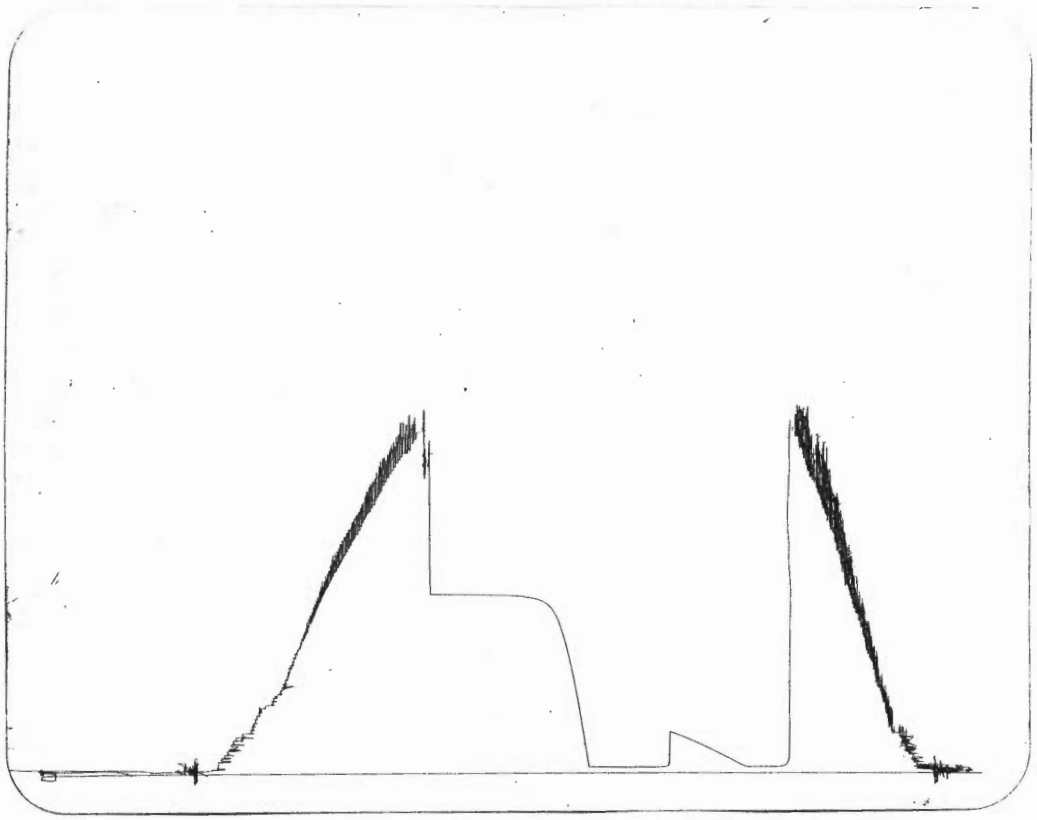
Final Flow pressure 48 to 48

Final Closed-in pressure 1476

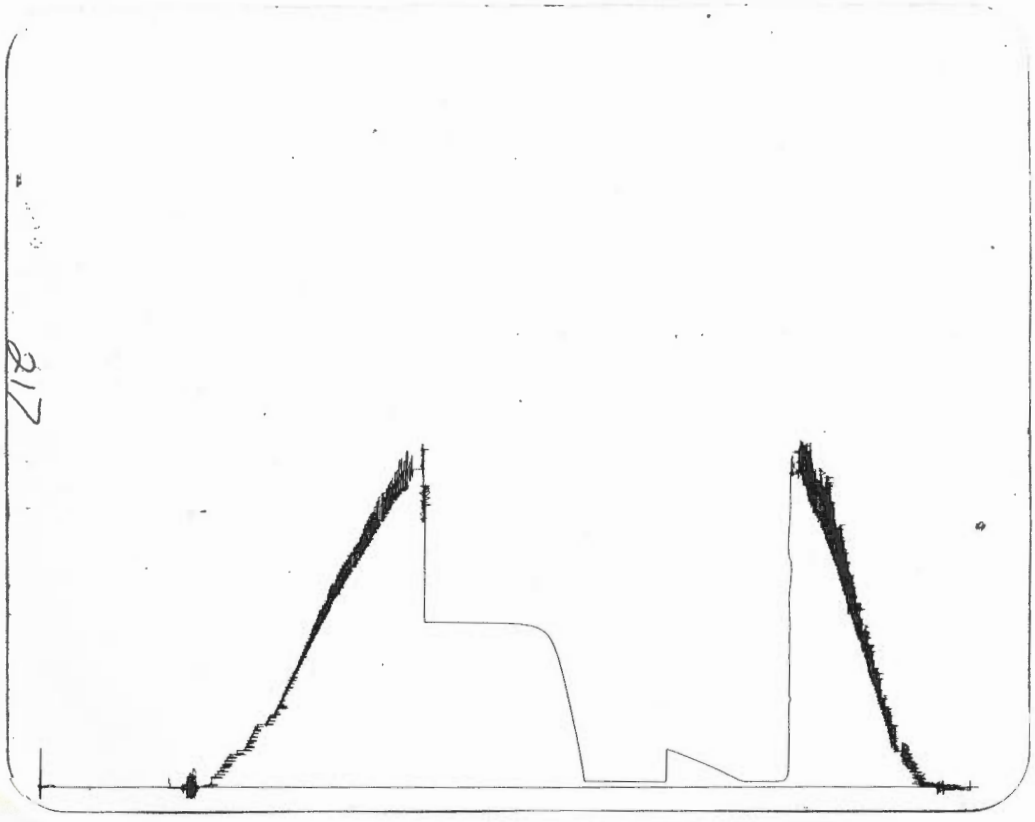
Time	Given	Computed
	30	30
	60	60
	60	60
	120	120

Initial Hydrostatic pressure 2839 Final Hydrostatic press. 2839 Temp 135°F.

Initial Flow Press.		Initial Closed in Press.		Final Flow Press		Final Closed in Press.	
Minutes	Press	Minutes	Press	Minutes	Press	Minutes	Press
0	--	0	51	0	--	0	48
5	48	3		5	48	3	
10	48	6	70	10	48	6	451
15		9		15		9	
20	48	12	103	20	48	12	816
25		15		25		15	
30	48	18	138	30	48	18	1096
35		21		35		21	
40		24	174	40	48	24	1295
45		27		45		27	
50		30	206	50	48	30	1389
55		33		55		33	
60		36	238	60	48	36	1427
65		39		65		39	
70		42	264	70		42	1443
75		45		75		45	
80		48	296	80		48	1453
85		51		85		51	
90		54	322	90		54	1459
95		57		95		57	
100		60	348	100		60	1463
105		63		105		63	
110		66		110		66	1466
115		69		115		69	
120		72		120		72	1469
		75		125		75	
		78		130		78	1469
		81		135		81	
		84		140		84	1472
		87		145		87	
		90		150		90	1472
		93		155		93	
		96		160		96	1476
		99		165		99	
		102		170		102	1476
		105		175		105	
		108		180		108	1476
		111				111	
		114				114	1476
		117				117	
		120				120	1476



Initial Hydrostatic	2839			psi
IFP	48	psi to	48	psi
ISIP	348			psi
FFP	48	psi to	48	psi
FSIP	1476			psi
Final Hydrostatic	2839			psi



PHONE
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DEAN'S TESTERS INC. CONFIDENTIAL

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Chester Sand Type Test Conventional Date September 13, 1993

Anchor Length and Size 30' X 4½" OD-Perf. Total Depth 6296'

Packer Depths 6261' & 6266' Below Straddle Choke Size Bottom 5/8" Surface 1/4"

Equipment Run 2 Packers, Jars, Sample Chamber, Safety joint, Circ. sub. ORIGINAL

Lengths: Tool 63' D. P. 5610' ID 3.8" Wt. P. ID D. C. 655' ID 2.25"

Mud Type Chemical Vis. 56 Wt. 9.1 Wtr. Loss 6.2 Cl. 2000 ppm

Recorders:

Depth 6288' Make Kuster Cap. 6500 Ser. No. 10269 Inside

Depth 6294' Make Kuster Cap. 6800 Ser. No. 10217 Outside

Depth Make Cap. Ser. No. Below Straddle

Pressures:

Tool on Bottom @ 9:20 AM.

Initial Flow 30 Min.

Initial Shut-In 59 Min.

Final Flow 60 Min.

Final Shut-In 119 Min.

Tool off Bottom @ 1:50 PM.

Initial Hydrostatic 3038 psi

IFP 58 psi to 58 psi

ISIP 512 psi

FFP 67 psi to 67 psi

FSIP 1488 psi

Final Hydrostatic 3003 psi

Temp. 142°F

KCC
NOV 1 -
CONFIDENTIAL

Blow: Fair increasing slightly on I.F.P., Fair increasing to strong on F.F.P.

Recovery: 60' Very Slightly Gas Cut Mud.

RELEASED
JAN 1 1 1996
FROM CONFIDENTIAL

RELEASED
1 1 1996
FROM CONFIDENTIAL

Gas Flow:

Sampler Data:

Pressure 24 PSI

Gas 0.02 cu. ft.

Total Fluid 2000 cc

Oil Trace cc

Water -- cc

Mud 2000 cc

Oil Gravity @ °F.

Gas/Oil Ratio

Remarks:

Fluid Analysis:

	Cl PPM	S.G.	Ph	Rw.
Pit:	2000	1.000	9	2.0 @ 70°F
Pipe:	2000	1.000	9	2.0 @ 70°F
Sampler:	2000	1.000	9	2.0 @ 70°F.

Tester Butch Young Witnessed by: Jim Tull

DT-10 Liberal Office Machines

SEC. 2 TWP. 34S RGE. 34W COUNTY Seward STATE Kansas TICKET NO. 3560

OPERATOR Cabot Oil & Gas Corporation nw-nw

WELL NAME & NO. Keating-Stephans #4-2

TEST # 2

TEST INTERVAL 6266' - 6296'

Test ticket no. 3560 Recorder no. 10269 Capacity 6500 Rec. Depth. 6288'

Initial Flow pressure 58 to 58

Initial Closed in pressure 512

Final Flow pressure 67 to 67

Final Closed-in pressure 1488

Time	Given	Computed
	30	30
	60	59
	60	60
	120	119

CONFIDENTIAL

Initial Hydrostatic pressure 3038 Final Hydrostatic press. 3003 Temp 142°F

Initial Flow Press.

Minutes	Press
0	--
5	58
10	58
15	
20	58
25	
30	58
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

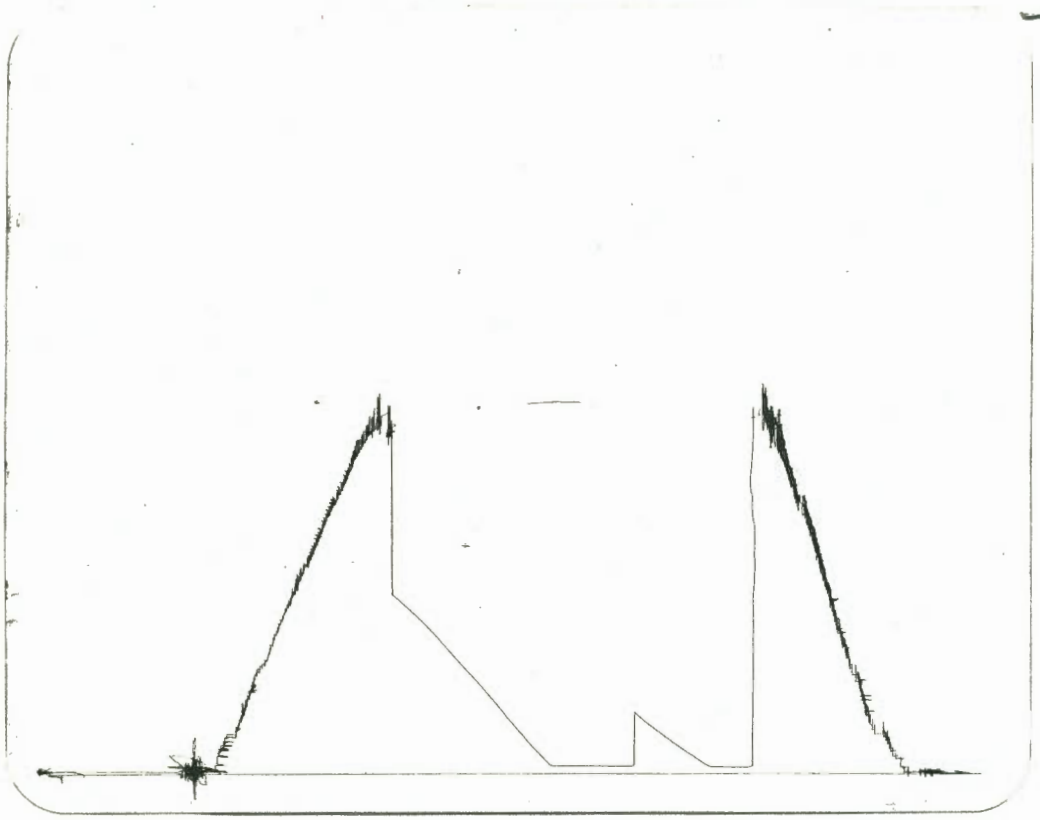
Minutes	Press
0	58
3	
6	80
9	
12	122
15	
18	170
21	
24	216
27	
30	264
33	
36	312
39	
42	361
45	
48	409
51	
54	467
57	
59 60	512
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

Minutes	Press
0	--
5	67
10	67
15	
20	67
25	
30	67
35	
40	67
45	
50	67
55	
60	67
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	67
3	
6	129
9	
12	193
15	
18	267
21	
24	348
27	
30	422
33	
36	503
39	
42	587
45	
48	664
51	
54	741
57	
60	816
63	
66	887
69	
72	958
75	
78	1035
81	
84	1115
87	
90	1186
93	
96	1254
99	
102	1321
105	
108	1382
111	
114	1443
117	
119 120	1488



Initial Hydrostatic 3038 psi

IFP 58 psi to 58 psi

ISIP 512 psi

FFP 67 psi to 67 psi

FSIP 1488 psi

Final Hydrostatic 3003 psi