

Phone  
(303) 830-8080

# Drill Stem Testers, Inc.

Denver Center Bldg.  
1776 Lincoln St., Suite 408  
Denver, CO 80203

Contractor <u>Allen Drlg.</u>	Surface Choke <u>1"</u>	Mud Type <u>Gel-chemical</u>
Rig No. <u>5</u>	Bottom Choke <u>5/8"</u>	Weight <u>9.2</u>
Spot <u>NE-SW-NE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>52</u>
Sec. <u>28</u>	Core Hole Size <u>--</u>	Water Loss <u>10.5</u>
Twp. <u>31S</u>	DP Size & Wt. <u>4 1/2" XH 16.60</u>	Filter Cake <u>2/32</u>
Rng. <u>13W</u>	Wt. Pipe <u>--</u>	Resistivity <u>--</u> @ <u>--</u> $\phi$ F
Field <u>--</u>	I.D. of DC <u>2.25"</u>	<u>18,000</u> Ppm. NaCl
County <u>Barber</u>	Length of DC <u>120'</u>	B.H.T. <u>108</u> $\phi$ F
State <u>Kansas</u>	Total Depth <u>4228'</u>	Co. Rep. <u>Ernie Morrison</u>
Elevation <u>1564' KB</u>	Type Test <u>Conventional</u>	Tester <u>Kurt Karst</u>
Formation <u>Mississippi</u>	Interval <u>4186-4228'</u>	
On Location @ <u>5:00 AM</u>	Off Location @ <u>4:00 PM</u>	

Operator  
Ticket No. 176  
SUNWEST EXPLORATION CO.

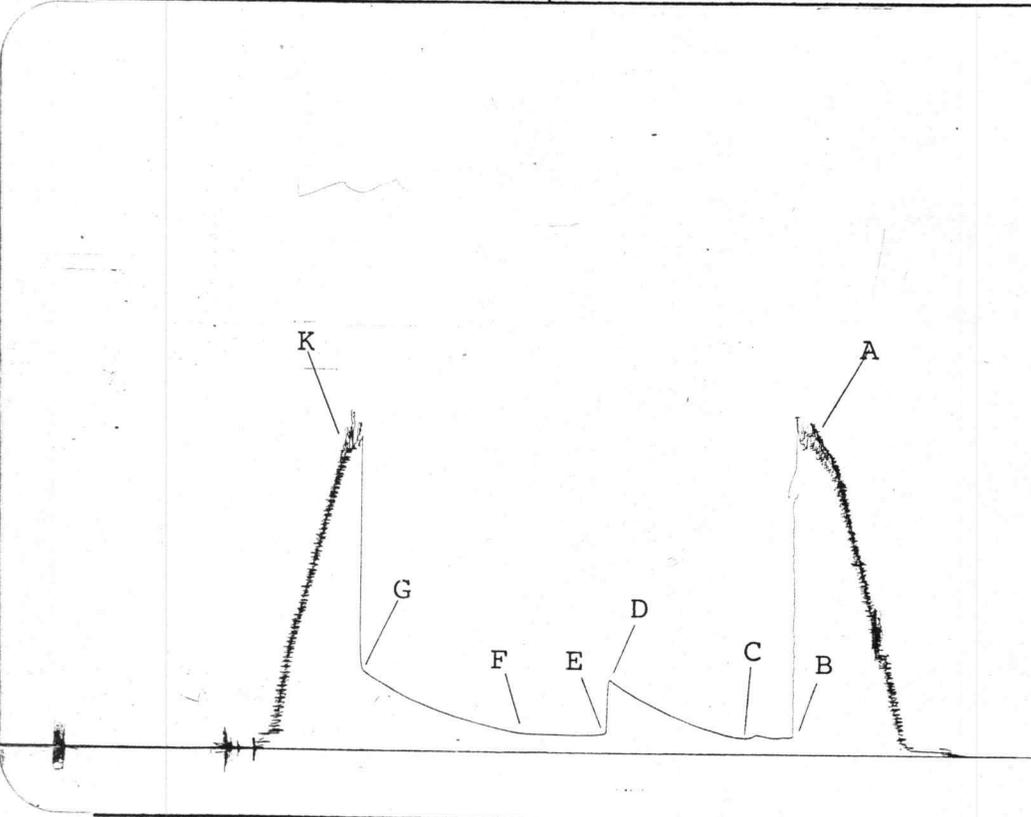
Well Name & No. ALLAN COK #1  
Date 10-13-84

DST No. 1  
Interval 4186-4228'

	REPORTED	CORRECTED
Opened Tool @	<u>7:45 AM</u>	<u>7:45 AM</u>
Flow No. 1	<u>45</u>	<u>44</u>
Shut-in No. 1	<u>90</u>	<u>96</u>
Flow No. 2	<u>60</u>	<u>61</u>
Shut-in No. 2	<u>120</u>	<u>124</u>
Flow No. 3	<u>---</u>	<u>---</u>
Shut-in No. 3	<u>---</u>	<u>---</u>

Recorder Type <u>Kuster AK-1</u>
No. <u>25538</u> Cap. <u>5175</u> psi
Depth <u>4225</u> feet
Inside Outside X

Clock No. <u>26833</u> Hr. <u>12</u>
Initial Hydrostatic A <u>2082</u>
Final Hydrostatic K <u>2041</u>
Initial Flow B <u>114</u>
Final Initial Flow C <u>106</u>
Initial Shut-in D <u>478</u>
Second Initial Flow E <u>129</u>
Second Final Flow F <u>117</u>
Second Shut-in G <u>524</u>
Third Initial Flow H <u>---</u>
Third Final Flow I <u>---</u>
Third Shut-in J <u>---</u>



Pipe Recovery:

- 150' Total fluid
- 30' Drilling mud = .43 bbls.
- 60' Very slightly oil cut mud = .29 bbls.
- 60' Oil cut mud = .29 bbls. (8% oil, 92% mud)

Surface Blow:

1st Flow: Tool opened with a 1" blow, increased to a bottom of bucket blow in 32 minutes, and remained throughout the flow period.

2nd Flow: Tool opened with a bottom of bucket blow in 1 minute, and remained throughout the flow period.

# Drill Stem Testers, Inc.

## INCREMENTAL READING DATA

SUNWEST EXPLORATION CO.

ALLAN COK #1

1

Operator

Well Name and No.

DST No.

RECORDER NO. 25538

DEPTH 4225 Ft.

-----  
INITIAL SHUT-IN  
INITIAL FLOW TIME: T = 44

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	106
2	21.86	111
4	11.81	115
6	8.30	119
8	6.41	124
10	5.36	128
12	4.65	133
14	4.14	139
16	3.73	143
18	3.43	148
20	3.20	152
25	2.76	166
30	2.46	179
35	2.25	195
40	2.10	213
45	1.98	231
50	1.88	249
55	1.80	269
60	1.73	293
70	1.63	336
80	1.55	385
90	1.49	441
96	1.46	478

# Drill Stem Testers, Inc.

## INCREMENTAL READING DATA

SUNWEST EXPLORATION CO.

ALLAN COK #1

1

Operator

Well Name and No.

DST No.

RECORDER NO. 25538

DEPTH 4225 Ft.

-----  
FINAL SHUT-IN

TOTAL FLOW TIME: T = 105

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	117
2	50.79	119
4	26.81	120
6	18.43	121
8	13.91	124
10	11.40	126
12	9.71	130
14	8.49	134
16	7.51	138
18	6.81	142
20	6.24	146
25	5.20	156
30	4.48	166
35	3.99	178
40	3.62	188
45	3.33	200
50	3.10	214
55	2.91	227
60	2.75	242
70	2.50	273
80	2.31	307
90	2.17	345
100	2.05	392
110	1.95	443
120	1.87	495
124	1.85	524

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## DISTRIBUTION OF FINAL REPORTS

SUNWEST EXPLORATION CO.

ALLAN COK #1

Operator

Well Name and No.

Sunwest Exploration Co. (5)  
9785 Maroon Circle, Suite 310  
Englewood, Colorado, 80112  
Attn: George Rooney

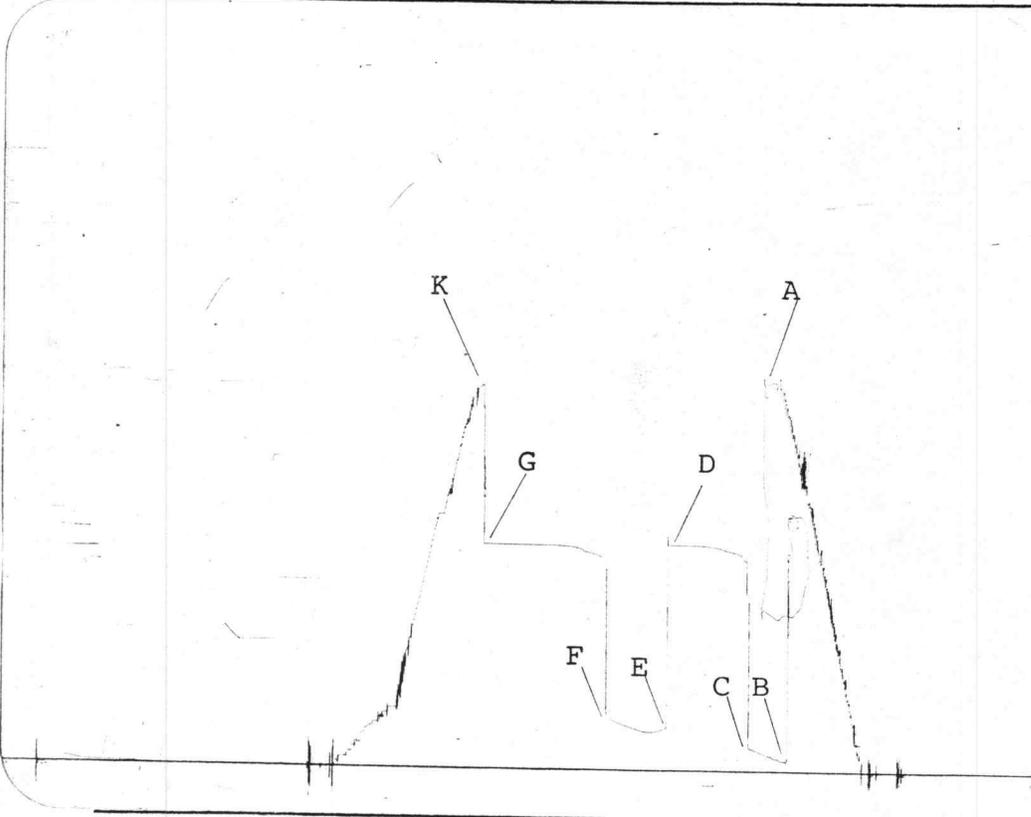
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Denver Center Bldg.  
1776 Lincoln St., Suite 408  
Denver, CO 80203

Contractor <u>Allen Drlg.</u>	Surface Choke <u>1"</u>	Mud Type <u>Gel-chemical</u>
Rig No. <u>5</u>	Bottom Choke <u>5/8"</u>	Weight <u>9.5</u>
Spot <u>NE-SW-NE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>42</u>
Sec. <u>28</u>	Core Hole Size <u>--</u>	Water Loss <u>15.4</u>
Twp. <u>31S</u>	DP Size & Wt. <u>4 1/2" XH 16.60</u>	Filter Cake <u>2/32</u>
Rng. <u>13W</u>	Wt. Pipe <u>--</u>	Resistivity <u>--</u> @ <u>--</u> OF
Field <u>--</u>	I.D. of DC <u>2.25"</u>	<u>20,000</u> Ppm. NaCl
County <u>Barber</u>	Length of DC <u>120'</u>	B.H.T. <u>122</u> OF
State <u>Kansas</u>	Total Depth <u>4590'</u>	Co. Rep. <u>Ernie Morrison</u>
Elevation <u>1564' KB</u>	Type Test <u>Conventional</u>	Tester <u>Kurt Karst</u>
Formation <u>Simpson</u>	Interval <u>4554-4590'</u>	
On Location @ <u>11:30 PM</u>	Off Location @ <u>10:00 AM</u>	

	REPORTED	CORRECTED
Opened Tool @	<u>2:35 AM</u>	hrs.
Flow No. 1	<u>30</u>	<u>29</u> min.
Shut-in No. 1	<u>60</u>	<u>62</u> min.
Flow No. 2	<u>45</u>	<u>47</u> min.
Shut-in No. 2	<u>90</u>	<u>93</u> min.
Flow No. 3		min.
Shut-in No. 3		min.
Recorder Type	<u>Kuster AK-1</u>	
No. <u>11017</u>	Cap. <u>4750</u>	psi
Depth	<u>4536</u> feet	
	Inside <u>X</u>	Outside
Clock No. <u>8622</u>	Hr. <u>12</u>	
Initial Hydrostatic	A	<u>2471</u>
Final Hydrostatic	K	<u>2437</u>
Initial Flow	B	<u>86</u>
Final Initial Flow	C	<u>185</u>
Initial Shut-in	D	<u>1484</u>
Second Initial Flow	E	<u>310</u>
Second Final Flow	F	<u>374</u>
Second Shut-in	G	<u>1477</u>
Third Initial Flow	H	<u>--</u>
Third Final Flow	I	<u>--</u>
Third Shut-in	J	<u>--</u>



Pipe Recovery:

790' Total fluid  
 180' Gas cut drilling mud = 2.56 bbls.  
 610' Gas cut saltwater = 7.55 bbls.  
 Bottom Sample R.W. - .08 @ 75°F = 90,000 ppm NaCl

Surface Blow:

1st Flow: Tool opened with a 1" blow, increased to a bottom of bucket blow in 11 minutes, and remained throughout the flow period.  
 2nd Flow: Tool opened with a 5" blow, increased to a bottom of bucket blow in 9 minutes, and remained throughout the flow period.

Operator  
Ticket No. 177  
SUNWEST EXPLORATION CO.

Well Name & No. ALLAN COK #1  
Date 10-15-84

DST No. 2  
Interval 4554-4590'

# Drill Stem Testers, Inc.

## INCREMENTAL READING DATA

SUNWEST EXPLORATION CO.

Operator

ALLAN COK #1

Well Name and No.

2

DST No.

RECORDER NO. 11017

DEPTH 4536 Ft.

-----  
INITIAL SHUT-IN  
INITIAL FLOW TIME: T = 29

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	185
2	13.87	1365
4	8.15	1401
6	5.71	1419
8	4.57	1433
10	3.88	1440
12	3.41	1443
14	3.08	1447
16	2.80	1451
18	2.61	1454
20	2.45	1458
25	2.16	1467
30	1.97	1476
35	1.83	1480
40	1.73	1482
45	1.65	1483
50	1.58	1484
55	1.53	1484
60	1.48	1484
62	1.47	1484

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## INCREMENTAL READING DATA

SUNWEST EXPLORATION CO.

ALLAN COK #1

2

Operator

Well Name and No.

DST No.

RECORDER NO. 11017

DEPTH 4536 Ft.

-----  
FINAL SHUT-IN  
TOTAL FLOW TIME: T = 76

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	374
2	34.47	1386
4	19.59	1400
6	13.55	1412
8	10.30	1420
10	8.49	1428
12	7.27	1433
14	6.40	1436
16	5.69	1440
18	5.18	1443
20	4.77	1449
25	4.02	1463
30	3.51	1470
35	3.15	1472
40	2.89	1475
45	2.68	1476
50	2.51	1477
55	2.38	1477
60	2.26	1477
70	2.08	1477
80	1.94	1477
90	1.84	1477
93	1.81	1477

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