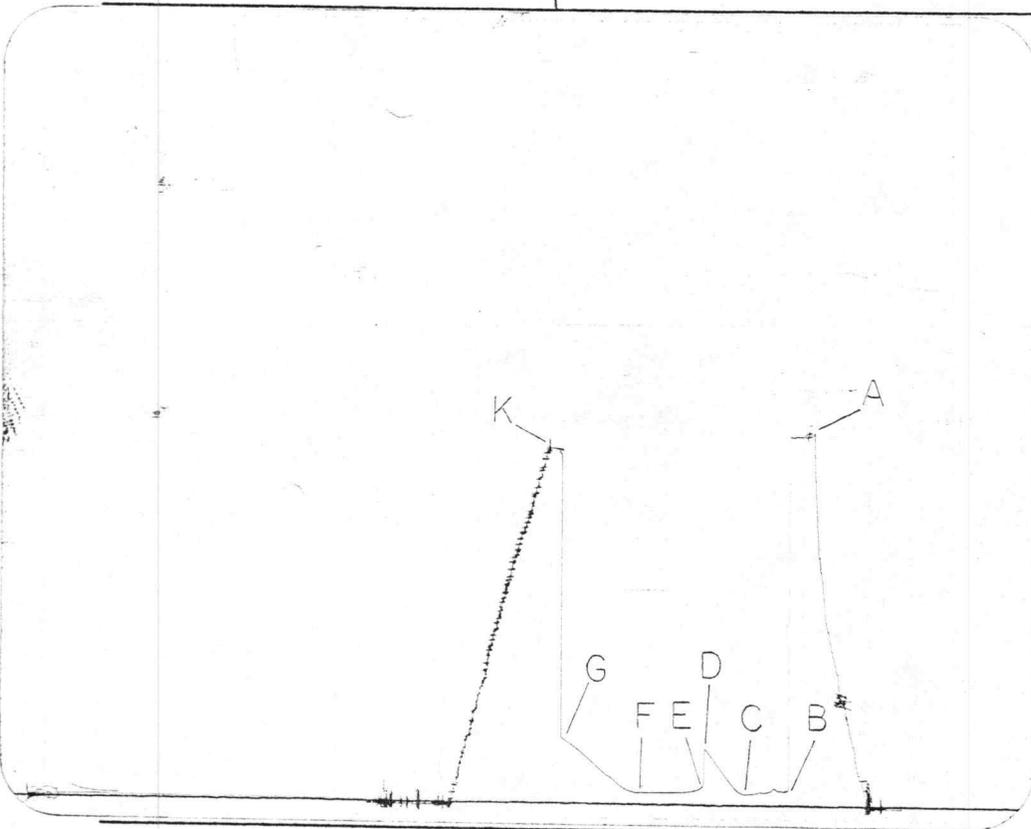


Phone
(303) 830-8080

Star Hughes

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

Contractor <u>Cougar Drlg.</u>	Surface Choke <u>1"</u>	Mud Type <u>Gel-Chemical</u>
Rig No. <u>2</u>	Bottom Choke <u>5/8"</u>	Weight <u>9.2</u>
Spot <u>CN-NW-SE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>46</u>
Sec. <u>8</u>	Core Hole Size <u>--</u>	Water Loss <u>14.8</u>
Twp. <u>28S</u>	DP Size & Wt. <u>4 1/2" XH 16.60</u>	Filter Cake <u>2/32</u>
Rng. <u>15W</u>	Wt. Pipe <u>--</u>	Resistivity <u>--</u> @ <u>--</u> of
Field <u>--</u>	I.D. of DC <u>2 1/4"</u>	<u>12,000</u> Ppm. NaCl
County <u>Pratt</u>	Length of DC <u>370'</u>	B.H.T. <u>116</u> of
State <u>Kansas</u>	Total Depth <u>4535'</u>	Co. Rep. <u>Doug McGinness</u>
Elevation <u>2103' KB</u>	Type Test <u>Conventional</u>	Tester <u>Kurt Karst</u>
Formation <u>Marmaton</u>	Interval <u>4496-4535'</u>	
On Location @ <u>6:00am 5-21-84</u>	Off Location @ <u>4:00pm 5-21-84</u>	



	REPORTED	CORRECTED
Opened Tool @	<u>10:30</u> am	<u>10:30</u> am
Flow No. 1	<u>30</u>	<u>32</u>
Shut-in No. 1	<u>30</u>	<u>32</u>
Flow No. 2	<u>45</u>	<u>51</u>
Shut-in No. 2	<u>60</u>	<u>58</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>11017</u>	Cap. <u>4750</u>	psi
Depth <u>---</u>	<u>4532</u>	feet
	Inside	Outside X
Clock No. <u>26833</u>	Hr. <u>12</u>	
Initial Hydrostatic	A	<u>2248</u>
Final Hydrostatic	K	<u>2205</u>
Initial Flow	B	<u>104</u>
Final Initial Flow	C	<u>86</u>
Initial Shut-in	D	<u>360</u>
Second Initial Flow	E	<u>132</u>
Second Final Flow	F	<u>93</u>
Second Shut-in	G	<u>420</u>
Third Initial Flow	H	<u>--</u>
Third Final Flow	I	<u>--</u>
Third Shut-in	J	<u>--</u>

Pipe Recovery: 125' Total fluid
125' Oil and gas cut mud = .61 bbls.
 80% mud, 10% gas, 10% oil.

Surface Blow:
 1st flow: Tool opened with a weak blow, increased to a bottom of bucket blow in 12 minutes and remained throughout flow period.
 2nd flow: Tool opened with a bottom of bucket blow and remained throughout flow period.

Operator Sunwest Exploration, Inc.
 Ticket No. 3194
 Well Name & No. Williams #1
 Date 5-21-84
 DST No. 1
 Interval 4496-4535'

Star Hughes

INCREMENTAL READING DATA

SUNWEST EXPLORATION, INC.

WILLIAMS #1

Operator

Well Name and No.

1

DST No.

RECORDER NO. 11017

DEPTH 4532 Ft.

INITIAL SHUT-IN
INITIAL FLOW TIME: T = 32

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	86
2	18.83	90
4	9.23	96
6	6.35	103
8	4.96	119
10	4.24	137
12	3.68	154
14	3.33	179
16	3.02	196
18	2.81	218
20	2.62	238
22	2.49	259
24	2.35	282
26	2.24	303
28	2.15	325
30	2.08	344
32	2.01	360

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INCREMENTAL READING DATA

SUNWEST EXPLORATION, INC.

WILLIAMS #1

Operator

Well Name and No.

1
DST No.

RECORDER NO. 11017

DEPTH 4532 Ft.

FINAL SHUT-IN
TOTAL FLOW TIME: T = 83

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	93
2	40.43	96
4	20.71	98
6	14.14	101
8	11.22	108
10	9.12	117
12	7.90	127
14	6.87	138
16	6.21	152
18	5.60	165
20	5.18	179
25	4.33	203
30	3.76	238
35	3.36	277
40	3.08	312
45	2.84	344
50	2.66	376
55	2.51	402
58	2.44	420

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SUNWEST EXPLORATION, INC.

WILLIAMS #1

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Operator

Well Name and No.

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9785 S. Maroon Circle, Suite 300
Englewood, Colorado, 80112
Attn: George Rooney

(1) Doug McGinness
1026 Union Center Bldg.
Wichita, Kansas, 67202

Phone
(303) 830-8080

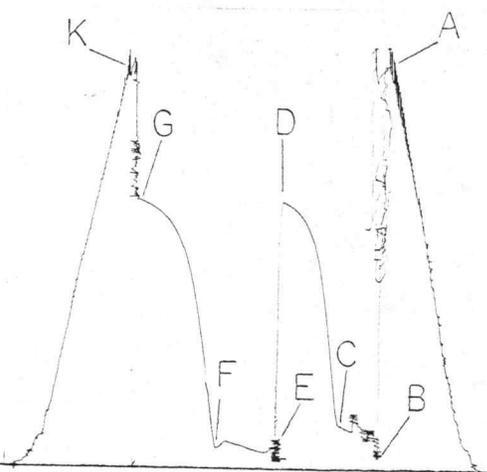
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Contractor <u>Cougar Drlg.</u>	Surface Choke <u>1"</u>	Mud Type <u>Gel-Chemical</u>
Rig No. <u>2</u>	Bottom Choke <u>5/8"</u>	Weight <u>9.1</u>
Spot <u>CN-NW-SE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>53</u>
Sec. <u>8</u>	Core Hole Size <u>--</u>	Water Loss <u>12.8</u>
Twp. <u>28S</u>	DP Size & Wt. <u>4 1/2" XH 16.60</u>	Filter Cake <u>2/32</u>
Rng. <u>15W</u>	Wt. Pipe <u>--</u>	Resistivity <u>--</u> @ <u>--</u> of
Field <u>--</u>	I.D. of DC <u>2 1/4"</u>	<u>14,000</u> Ppm. NaCl
County <u>Pratt</u>	Length of DC <u>370'</u>	B.H.T. <u>120</u> of
State <u>Kansas</u>	Total Depth <u>4645'</u>	Co. Rep. <u>Doug McGinness</u>
Elevation <u>2103' KB</u>	Type Test <u>Conventional</u>	Tester <u>Kurt Karst</u>
Formation <u>Congl.-Miss.</u>	Interval <u>4582-4645'</u>	
On Location @ <u>6:00am 5-22-84</u>	Off Location @ <u>2:00pm 5-22-84</u>	

	REPORTED	CORRECTED
Opened Tool @	<u>9:00 am</u>	<u> </u> hrs.
Flow No. 1	<u>30</u>	<u>30</u> min.
Shut-in No. 1	<u>45</u>	<u>42</u> min.
Flow No. 2	<u>45</u>	<u>46</u> min.
Shut-in No. 2	<u>60</u>	<u>60</u> min.
Flow No. 3	<u> </u>	<u> </u> min.
Shut-in No. 3	<u> </u>	<u> </u> min.

Recorder Type <u>Kuster AK-1</u>
No. <u>11027</u> Cap. <u>4275</u> psi
Depth <u>4570</u> feet
Inside X Outside
Clock No. <u>6713</u> Hr. <u>12</u>
Initial Hydrostatic A <u>2220</u>
Final Hydrostatic K <u>2197</u>
Initial Flow B <u>72</u>
Final Initial Flow C <u>240</u>
Initial Shut-in D <u>1479</u>
Second Initial Flow E <u>101</u>
Second Final Flow F <u>129</u>
Second Shut-in G <u>1488</u>
Third Initial Flow H <u>--</u>
Third Final Flow I <u>--</u>
Third Shut-in J <u>--</u>



Pipe Recovery: 70' Total fluid
70' Gas cut mud = .34 bbls.

Surface Blow:
1st flow: Tool opened with a bottom of bucket blow in 5 minutes and remained throughout flow period.
2nd flow: Tool opened with a strong blow. Gas to surface in 7 minutes, see gas volume report.

Remarks: Pressure chart indicates that there was slight plugging action throughout both flow periods.

Operator Sunwest Exploration, Inc.
 Ticket No. 3195
 Well Name & No. Williams #1
 Date 5-22-84
 DST No. 2
 Interval 4582-4645'

Star Hughes

INCREMENTAL READING DATA

SUNWEST EXPLORATION, INC.

WILLIAMS #1

2

Operator

Well Name and No.

DST No.

RECORDER NO. 11027

DEPTH 4570 Ft.

INITIAL SHUT-IN
INITIAL FLOW TIME: T = 30

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	240
2	17.67	312
4	8.69	475
6	6.00	635
8	4.70	775
10	4.03	918
12	3.50	1031
14	3.13	1138
16	2.85	1208
18	2.67	1259
20	2.49	1295
25	2.20	1375
30	2.00	1420
35	1.86	1450
40	1.75	1471
42	1.71	1479

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INCREMENTAL READING DATA

SUNWEST EXPLORATION, INC.
Operator

WILLIAMS #1
Well Name and No.

2
DST No.

RECORDER NO. 11027

DEPTH 4570 Ft.

FINAL SHUT-IN
TOTAL FLOW TIME: T = 76

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	129
2	36.86	197
4	20.31	319
6	13.55	435
8	10.30	583
10	8.38	695
12	7.27	802
14	6.34	902
16	5.74	982
18	5.18	1053
20	4.80	1116
25	4.02	1228
30	3.51	1316
35	3.16	1371
40	2.89	1410
45	2.67	1438
50	2.51	1460
55	2.37	1477
60	2.26	1488

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WILLIAMS #1

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Operator

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Englewood, Colorado, 80112
Attn: George Rooney
- (1) Doug McGinness
1026 Union Center Bldg.
Wichita, Kansas, 67202

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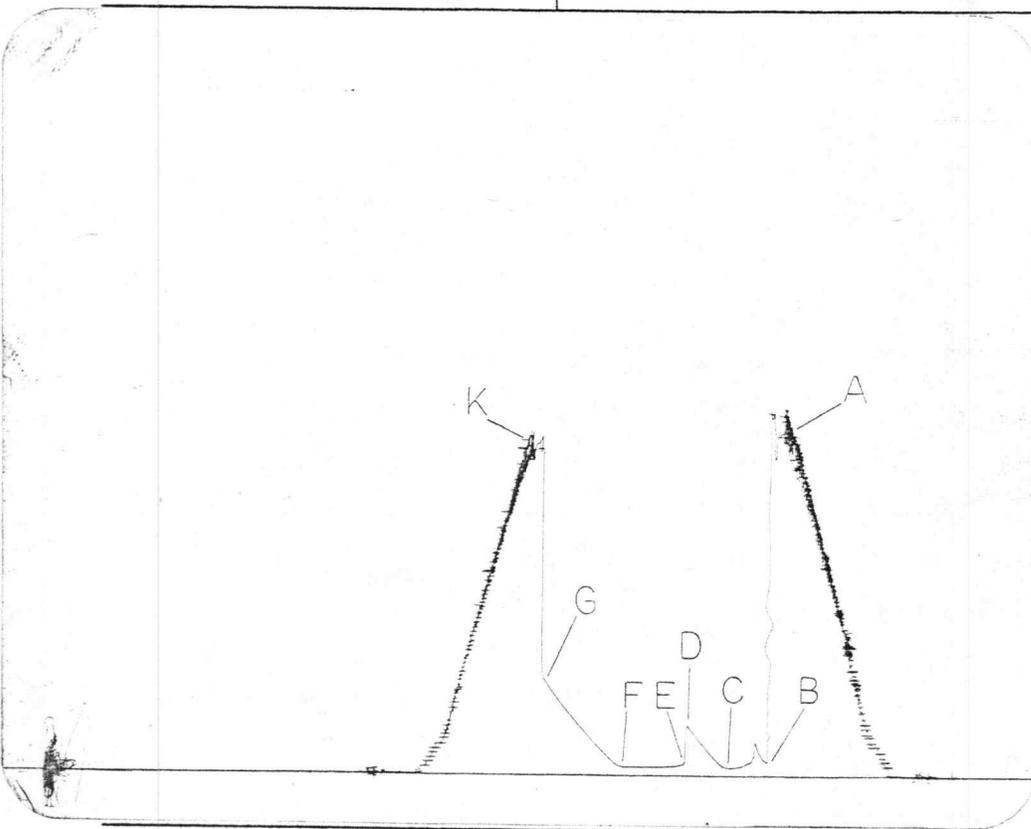
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1776 Lincoln St., Suite 408
Denver, CO 80203

Contractor <u>Cougar Drlg.</u>	Surface Choke <u>1"</u>	Mud Type <u>Gel-Starch</u>
Rig No. <u>2</u>	Bottom Choke <u>5/8"</u>	Weight <u>9.0</u>
Spot <u>CN-NW-SE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>62</u>
Sec. <u>8</u>	Core Hole Size <u>--</u>	Water Loss <u>12.0</u>
Twp. <u>28S</u>	DP Size & Wt. <u>4 1/2" XH 16.60</u>	Filter Cake <u>2/32</u>
Rng. <u>15W</u>	Wt. Pipe <u>--</u>	Resistivity <u>--</u> @ <u>--</u> OF
Field <u>--</u>	I.D. of DC <u>2 1/4"</u>	<u>16,000</u> Ppm. NaCl
County <u>Pratt</u>	Length of DC <u>370'</u>	B.H.T. <u>124</u> OF
State <u>Kansas</u>	Total Depth <u>4668'</u>	Co. Rep. <u>Doug McGinness</u>
Elevation <u>2103' KB</u>	Type Test <u>Conventional</u>	Tester <u>Kurt Karst</u>
Formation <u>Kinderhook</u>	Interval <u>4644-4668'</u>	
On Location @ <u>7:00pm 5-21-84</u>	Off Location @ <u>3:30am 5-22-84</u>	

	REPORTED	CORRECTED
Opened Tool @	<u>10:00pm</u>	hrs.
Flow No. 1	<u>30</u>	<u>30</u> min.
Shut-in No. 1	<u>30</u>	<u>31</u> min.
Flow No. 2	<u>45</u>	<u>47</u> min.
Shut-in No. 2	<u>60</u>	<u>60</u> min.
Flow No. 3		min.
Shut-in No. 3		min.

Recorder Type <u>Kuster AK-1</u>
No. <u>25538</u> Cap. <u>5175</u> psi
Depth <u>4665</u> feet
Inside Outside X

Clock No. <u>26833</u>	Hr. <u>12</u>
Initial Hydrostatic	A <u>2235</u>
Final Hydrostatic	K <u>2198</u>
Initial Flow	B <u>90</u>
Final Initial Flow	C <u>57</u>
Initial Shut-in	D <u>330</u>
Second Initial Flow	E <u>79</u>
Second Final Flow	F <u>61</u>
Second Shut-in	G <u>639</u>
Third Initial Flow	H <u>--</u>
Third Final Flow	I <u>--</u>
Third Shut-in	J <u>--</u>



Pipe Recovery: 76' Total fluid
 1' Clean oil = .01 bbls.
 75' Slightly gassy oil cut mud = .37 bbls.
 (15% oil, 10% gas, 75% mud)

Surface Blow:

- 1st flow: Tool opened with a weak blow, increased to a 10" blow at end of flow period.
- 2nd flow: Tool opened with a strong blow, increased to a bottom of bucket blow and remained throughout flow period.

Operator Sunwest Exploration, Inc.
 Ticket No. 3196

Well Name & No. Williams #1
 Date 5-22-84

DST No. 3
 Interval 4644-4668'

Star Hughes

INCREMENTAL READING DATA

SUNWEST EXPLORATION, INC.
Operator

WILLIAMS #1

Well Name and No.

3
DST No.

RECORDER NO. 25538

DEPTH 4665 Ft.

INITIAL SHUT-IN
INITIAL FLOW TIME: T = 30

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	57
2	17.67	61
4	8.69	67
6	6.00	80
8	4.70	97
10	4.03	113
12	3.50	133
14	3.13	153
16	2.85	171
18	2.67	193
20	2.49	211
22	2.37	232
24	2.25	251
26	2.16	272
28	2.08	295
30	2.00	317
31	1.97	330

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INCREMENTAL READING DATA

SUNWEST EXPLORATION, INC.
Operator

WILLIAMS #1

Well Name and No.

3
DST No.

RECORDER NO. 25538

DEPTH 4665 Ft.

FINAL SHUT-IN
TOTAL FLOW TIME: T = 77

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	61
2	37.71	63
4	19.36	68
6	13.85	79
8	10.52	93
10	8.79	108
12	7.43	125
14	6.59	142
16	5.85	161
18	5.36	177
20	4.89	196
25	4.10	244
30	3.57	291
35	3.22	340
40	2.93	396
45	2.72	448
50	2.55	509
55	2.41	571
60	2.29	639

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SUNWEST EXPLORATION, INC.

WILLIAMS #1

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Operator

Well Name and No.

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Wichita, Kansas, 67202