

Phone
(303) 830-8080

Drill Stem Testers, Inc.

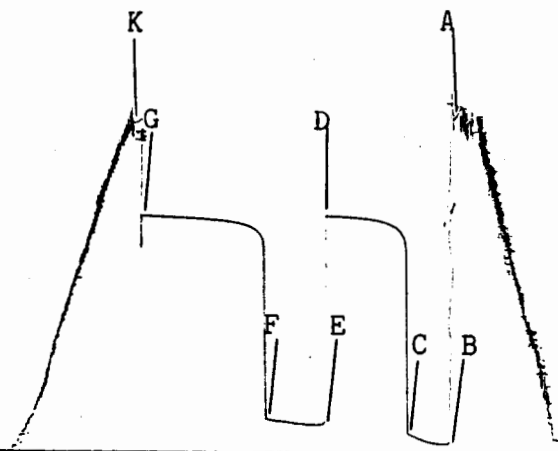
MAR 29 1976
Denver Center Bldg.
Lincoln St., Suite 408
Denver, CO 80203

Contractor <u>FWA</u>	Surface Choke <u>1"</u>	Mud Type <u>Gel-Chemical</u>
Rig No. <u>--</u>	Bottom Choke <u>5/8"</u>	Weight <u>9.3</u>
Spot <u>SE-NE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>43</u>
Sec. <u>32</u>	Core Hole Size <u>--</u>	Water Loss <u>11.2</u>
Twp. <u>29S</u>	DP Size & Wt. <u>4" FH 14.00</u>	Filter Cake <u>1/32</u>
Rng. <u>18W</u>	Wt. Pipe <u>--</u>	Resistivity <u>--</u> @ <u>--</u> of
Field <u>Nichols</u>	I.D. of DC <u>2.25"</u>	<u>10,000</u> Ppm. NaCl
County <u>Kiowa</u>	Length of DC <u>270'</u>	B.H.T. <u>118</u> of
State <u>Kansas</u>	Total Depth <u>4508'</u>	Co. Rep. <u>Gerrell Veatch</u>
Elevation <u>2218'KB</u>	Type Test <u>Conventional</u>	Tester <u>Kurt Karst</u>
Formation <u>Kansas City-Drum</u>	Interval <u>4486-4508'</u>	
On Location @ <u>6:00 am</u>	Off Location @ <u>3:00 pm</u>	

	REPORTED	CORRECTED
Opened Tool @	<u>8:35</u> am	<u>--</u> hrs.
Flow No. 1	<u>30</u>	<u>31</u> min.
Shut-in No. 1	<u>60</u>	<u>62</u> min.
Flow No. 2	<u>45</u>	<u>45</u> min.
Shut-in No. 2	<u>90</u>	<u>94</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>25539</u> Cap. <u>5225</u> psi
Depth <u>4505</u> feet
Inside _____ Outside <u>X</u>

Clock No. <u>26833</u> Hr. <u>12</u>
Initial Hydrostatic <u>A</u> <u>2231</u>
Final Hydrostatic <u>K</u> <u>2197</u>
Initial Flow <u>B</u> <u>87</u>
Final Initial Flow <u>C</u> <u>155</u>
Initial Shut-in <u>D</u> <u>1568</u>
Second Initial Flow <u>E</u> <u>212</u>
Second Final Flow <u>F</u> <u>237</u>
Second Shut-in <u>G</u> <u>1566</u>
Third Initial Flow <u>H</u> <u>--</u>
Third Final Flow <u>I</u> <u>--</u>
Third Shut-in <u>J</u> <u>--</u>



Pipe Recovery: 440' Muddy saltwater = 3.73 bbls.
Bottom Sample - 105,000 ppm NaCl

Surface Blow:

1st Flow: Tool opened with a weak surface bubble blow, increased to a bottom of bucket blow and remained throughout flow period.

2nd Flow: Tool opened with a weak surface bubble blow, increased to a bottom of bucket blow in 34 minutes and remained throughout flow period.

Operator **TXO PRODUCTION CORP.**
Ticket No. **809**

Well Name & No. **NICHOLS "G" #1**
Date **2-26-85**

DST No. **1**
Interval **4486-4508'**

Drill Stem Testers, Inc.

INCREMENTAL READING DATA

TXO PRODUCTION CORP.
Operator

NICHOLS "G" #1
Well Name and No.

1
DST No.

RECORDER NO. 25539

DEPTH 4505 Ft.

INITIAL SHUT-IN
INITIAL FLOW TIME: T = 31

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	155
2	16.85	1408
4	8.63	1454
6	6.15	1474
8	4.89	1490
10	4.12	1501
12	3.57	1510
14	3.22	1520
16	2.94	1526
18	2.73	1531
20	2.55	1535
25	2.24	1544
30	2.04	1551
35	1.89	1555
40	1.78	1559
45	1.69	1563
50	1.62	1565
55	1.56	1566
60	1.52	1568
62	1.50	1568

Drill Stem Testers, Inc.

INCREMENTAL READING DATA

TXO PRODUCTION CORP.

NICHOLS "G" #1

1

Operator

Well Name and No.

DST No.

RECORDER NO. 25539

DEPTH 4505 Ft.

FINAL SHUT-IN
TOTAL FLOW TIME: T = 76

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	237
2	39.92	1366
4	19.74	1440
6	13.65	1465
8	10.55	1476
10	8.67	1488
12	7.32	1497
14	6.44	1505
16	5.77	1512
18	5.22	1516
20	4.80	1521
25	4.05	1529
30	3.54	1536
35	3.18	1540
40	2.91	1544
45	2.69	1548
50	2.52	1552
55	2.39	1555
60	2.27	1556
70	2.09	1560
80	1.95	1563
90	1.85	1565
94	1.81	1566

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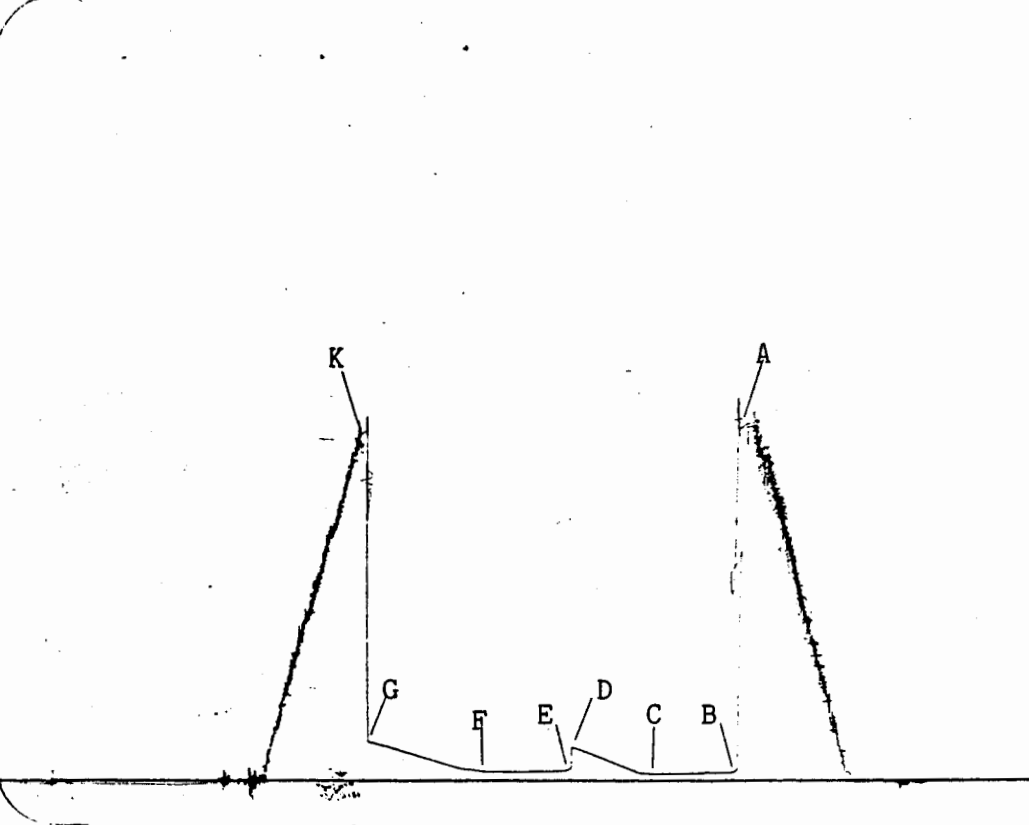
MAR 29 1985

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

Contractor FWA	Surface Choke 1"	Mud Type Gel-Chemical
Rig No. --	Bottom Choke 5/8"	Weight 9.4
Spot E-SE-NE	Hole Size 7 7/8"	Viscosity 46
Sec. 32	Core Hole Size --	Water Loss 17.2
Twp. 29S	DP Size & Wt. 4" FH 14.00	Filter Cake 1/32
Rng. 18W	Wt. Pipe --	Resistivity -- @ -- OF
Field Nichols	I.D. of DC 2.25"	15,000 Ppm. NaCl
County Kiowa	Length of DC 270'	B.H.T. 119 OF
State Kansas	Total Depth 4792'	Co. Rep. Gerrell Veatch
Elevation 2218'KB	Type Test Conventional	Tester Kurt Karst
Formation Marmaton	Interval 4774-4792'	
On Location @ 3:30 pm	Off Location @ 1:30 am	

	REPORTED	CORRECTED
Opened Tool @	6:45 pm	hrs.
Flow No. 1	60	63 min.
Shut-in No. 1	60	64 min.
Flow No. 2	60	63 min.
Shut-in No. 2	90	90 min.
Flow No. 3	--	min.
Shut-in No. 3	--	min.

Recorder Type Kuster AK-1
No. 25539 Cap. 5225 psi
Depth 4789 feet
Inside Outside X
Clock No. 8622 Hr. 12
Initial Hydrostatic A 2370
Final Hydrostatic K 2334
Initial Flow B 75
Final Initial Flow C 61
Initial Shut-in D 232
Second Initial Flow E 88
Second Final Flow F 75
Second Shut-in G 266
Third Initial Flow H --
Third Final Flow I --
Third Shut-in J --



Pipe Recovery: 650' Gas in pipe above fluid
10' Drilling mud = .05 bbls.
Bottom Sample - 12,000 ppm NaCl

Surface Blow:
1st Flow: Tool opened with a weak surface bubble blow, increased to a bottom of bucket blow in 56 minutes and remained throughout flow period.
2nd Flow: Tool opened with a good blow, increased to a bottom of bucket blow in 1/2 minute and remained throughout flow period.

Operator TXO PRODUCTION CORP.
Ticket No. 810

Well Name & No. NICHOLS "G" #1
Date 2-27-85

DST No. 2
Interval 4774-4792'

Drill Stem Testers, Inc.

INCREMENTAL READING DATA

TXO PRODUCTION CORP.

NICHOLS "G" #1

2

Operator

Well Name and No.

DST No.

RECORDER NO. 25539

DEPTH 4789 Ft.

FINAL SHUT-IN

TOTAL FLOW TIME: T = 126

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	75
2	65.38	75
4	32.00	76
6	21.93	79
8	16.79	82
10	13.68	85
12	11.46	88
14	10.00	89
16	8.90	91
18	8.03	92
20	7.29	96
25	6.04	106
30	5.21	119
35	4.61	132
40	4.16	144
45	3.80	158
50	3.52	170
55	3.29	183
60	3.10	194
70	2.80	219
80	2.58	244
90	2.39	266

MAR 29 1985

Denver Center Bldg.
1776 Lincoln St., Suite 408
Denver, CO 80203Phone
(303) 830-8080

Drill Stem Testers, Inc.

Contractor <u>FWA</u>	Surface Choke <u>1"</u>	Mud Type <u>Gel-Chemical</u>
Rig No. <u>--</u>	Bottom Choke <u>5/8"</u>	Weight <u>9.2</u>
Spot <u>E-SE-NE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>50</u>
Sec. <u>32</u>	Core Hole Size <u>--</u>	Water Loss <u>18.4</u>
Twp. <u>29S</u>	DP Size & Wt. <u>4" FH 14.00</u>	Filter Cake <u>2/32</u>
Rng. <u>18W</u>	Wt. Pipe <u>--</u>	Resistivity <u>--</u> @ <u>--</u> OF
Field <u>Nichols</u>	I.D. of DC <u>2.25"</u>	<u>16000</u> Ppm. NaCl
County <u>Kiowa</u>	Length of DC <u>270'</u>	B.H.T. <u>--</u> OF
State <u>Kansas</u>	Total Depth <u>4977'</u>	Co. Rep. <u>Gerrell Veatch</u>
Elevation <u>2218'KB</u>	Type Test <u>Straddle</u>	Tester <u>Kurt Karst</u>
Formation <u>Mississippi</u>	Interval <u>4918-4950'</u>	
On Location @ <u>7:00pm</u>	Off Location @ <u>7:30 am</u>	

	REPORTED	CORRECTED	
Opened Tool @	<u>10:30</u>	<u>pm</u>	hrs.
Flow No. 1	<u>30</u>	<u>31</u>	min.
Shut-in No. 1	<u>75</u>	<u>77</u>	min.
Flow No. 2	<u>45</u>	<u>46</u>	min.
Shut-in No. 2	<u>90</u>	<u>97</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>25539</u> Cap. <u>5225</u> psi
Depth <u>4947</u> feet
Inside Outside X

Clock No. <u>26833</u> Hr. <u>12</u>
Initial Hydrostatic A <u>2350</u>
Final Hydrostatic K <u>2324</u>
Initial Flow B <u>85</u>
Final Initial Flow C <u>71</u>
Initial Shut-in D <u>525</u>
Second Initial Flow E <u>106</u>
Second Final Flow F <u>93</u>
Second Shut-in G <u>513</u>
Third Initial Flow H <u>--</u>
Third Final Flow I <u>--</u>
Third Shut-in J <u>--</u>

Pipe Recovery: 70' Oil and gas cut mud = .34 bbls.
(15% gas, 20% oil, 65% mud)

Surface Blow:

1st Flow: Tool opened with a 1" blow, increased to a 7" blow and remained throughout flow period.

2nd Flow: Tool opened with a weak blow, increased to a bottom of bucket blow in 18 minutes and remained throughout flow period.

Operator TXO PRODUCTION CORP.
Ticket No. 811Well Name & No. NICHOLS "G" #1
Date 2-28-85DST No. 3
Interval 4918-4950'

Drill Stem Testers, Inc.

TXO PRODUCTION CORP.

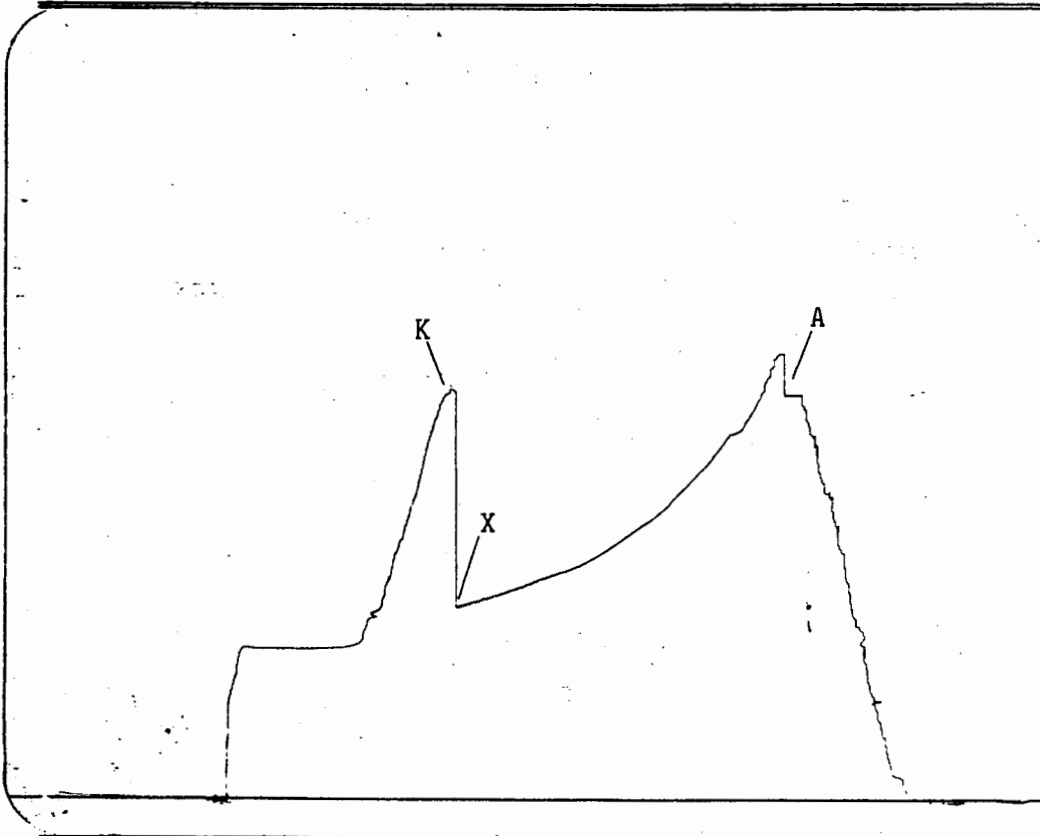
NICHOLS "G" #1

3

Operator

Well Name and No.

DST No.



Recorder Type Kuster AK-1
 No. 11017 Cap. 4750 ps
 Depth 4974 feet
 Inside _____ Outside X

Clock No. 23820 Hr. 12

Initial Hydrostatic A 2365
 Final Hydrostatic K 2342
 Initial Flow B --
 Final Initial Flow C --
 Initial Shut-in D --
 Second Initial Flow E --
 Second Final Flow F --
 Second Shut-in G --
 Third Initial Flow H --
 Third Final Flow I --
 Third Shut-in J --

Pressure below
 bottom packer:
X 1270

Recorder Type _____
 No. _____ Cap. _____ ps
 Depth _____ feet
 Inside _____ Outside _____

Clock No. _____ Hr. _____

Initial Hydrostatic A _____
 Final Hydrostatic K _____
 Initial Flow B _____
 Final Initial Flow C _____
 Initial Shut-in D _____
 Second Initial Flow E _____
 Second Final Flow F _____
 Second Shut-in G _____
 Third Initial Flow H _____
 Third Final Flow I _____
 Third Shut-in J _____

Drill Stem Testers, Inc.

INCREMENTAL READING DATA

TXO PRODUCTION CORP.

NICHOLS "G" #1

3

Operator

Well Name and No.

DST No.

RECORDER NO. 25539

DEPTH 4947 Ft.

INITIAL SHUT-IN
INITIAL FLOW TIME: T = 31

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	71
2	17.00	74
4	8.70	80
6	6.20	95
8	4.92	127
10	4.15	172
12	3.60	227
14	3.24	273
16	2.96	317
18	2.75	350
20	2.56	374
25	2.25	425
30	2.05	455
35	1.90	474
40	1.78	491
45	1.70	504
50	1.63	510
55	1.57	514
60	1.52	517
65	1.48	519
70	1.45	522
75	1.42	523
77	1.41	525

Drill Stem Testers, Inc.

INCREMENTAL READING DATA

TXO PRODUCTION CORP.

NICHOLS "G" #1

3

Operator

Well Name and No.

DST No.

RECORDER NO. 25539

DEPTH 4947 Ft.

FINAL SHUT-IN
TOTAL FLOW TIME: T = 77

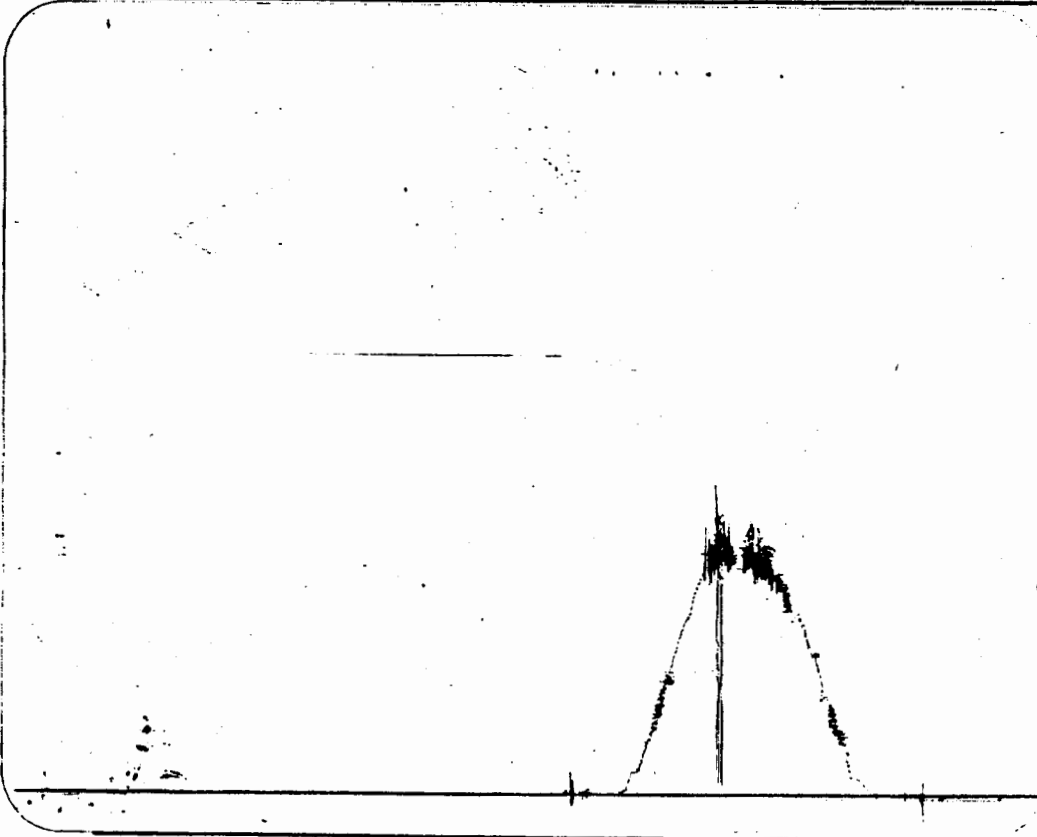
dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	93
2	40.46	97
4	20.00	105
6	13.83	120
8	10.68	150
10	8.77	190
12	7.41	228
14	6.52	258
16	5.84	291
18	5.31	320
20	4.86	345
25	4.09	391
30	3.58	424
35	3.21	446
40	2.94	465
45	2.72	477
50	2.55	483
55	2.41	490
60	2.29	496
70	2.11	503
80	1.97	508
90	1.86	512
97	1.80	513

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Drill Stem Testers, Inc.

MAR 29 1985
1778 Denver Center Bldg.
Lincoln St., Suite 408
Denver, CO 80203

Contractor FWA	Surface Choke 1"	Mud Type Gel-Chemical
Rig No. --	Bottom Choke 5/8"	Weight 9.4
Spot E-SE-NE	Hole Size 7 7/8"	Viscosity 62
Sec. 32	Core Hole Size --	Water Loss --
Twp. 29S	DP Size & Wt. 4" FH 14.00	Filter Cake --
Rng. 18W	Wt. Pipe --	Resistivity -- @ -- of
Field Nichols	I.D. of DC 2.25"	-- Ppm. NaCl
County Kiowa	Length of DC 240'	B.H.T. -- of
State Kansas	Total Depth 5050'	Co. Rep. Gerrell Veatch
Elevation 2218'KB	Type Test Straddle	Tester Kurt Karst
Formation Lansing "A"	Interval 4326-4358'	
On Location @ 11:30 am	Off Location @ 5:00 pm	



	REPORTED	CORRECTED
Opened Tool @	---	---
Flow No. 1	---	---
Shut-in No. 1	---	---
Flow No. 2	---	---
Shut-in No. 2	---	---
Flow No. 3	---	---
Shut-in No. 3	---	---
Recorder Type	Kuster AK-1	
No. 25539	Cap. 5225	psi
Depth	4352	feet
	Inside	Outside X
Clock No. 26833	Hr. 12	
Initial Hydrostatic	A	---
Final Hydrostatic	K	---
Initial Flow	B	---
Final Initial Flow	C	---
Initial Shut-in	D	---
Second Initial Flow	E	---
Second Final Flow	F	---
Second Shut-in	G	---
Third Initial Flow	H	---
Third Final Flow	I	---
Third Shut-in	J	---

Pipe Recovery:

Could not reach test depth. Tool stopped at 3100 feet.

" MISRUN "

Operator **TXO PRODUCTION CORP.**
Ticket No. **812**

Well Name & No. **NICHOLS "G" #1**
Date **3-2-85**

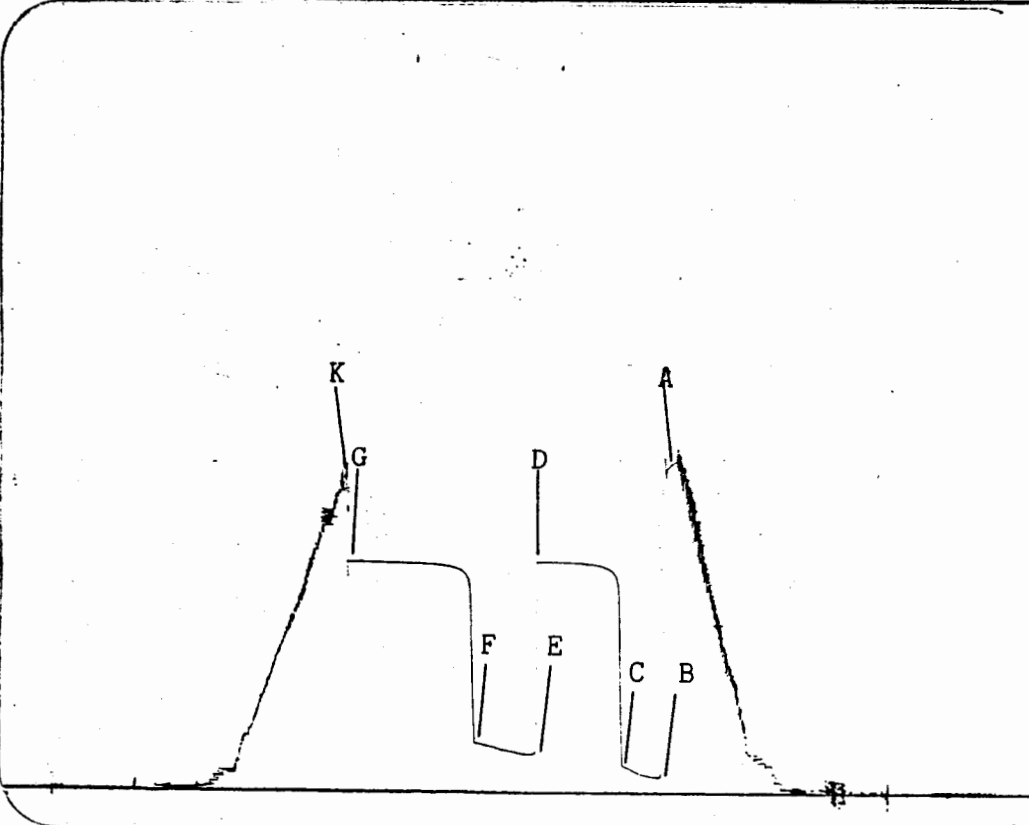
DST No. **4-Misrun**
Interval **4326-4358'**

Phone
(303) 830-8080

Drill Stem Testers, Inc.

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

Contractor <u>FWA</u>	Surface Choke <u>1"</u>	Mud Type <u>Gel-Chemical</u>
Rig No. <u>--</u>	Bottom Choke <u>5/8"</u>	Weight <u>9.4</u>
Spot <u>E-SE-NE</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>62</u>
Sec. <u>32</u>	Core Hole Size <u>--</u>	Water Loss <u>--</u>
Twp. <u>29S</u>	DP Size & Wt. <u>4" FH 14.00</u>	Filter Cake <u>--</u>
Rng. <u>18W</u>	Wt. Pipe <u>--</u>	Resistivity <u>--</u> @ <u>--</u> OF
Field <u>Nichols</u>	I.D. of DC <u>2.25"</u>	<u>--</u> Ppm. NaCl
County <u>Kiowa</u>	Length of DC <u>520'</u>	B.H.T. <u>--</u> OF
State <u>Kansas</u>	Total Depth <u>5050'</u>	Co. Rep. <u>Gerrell Veatch</u>
Elevation <u>2218'KB</u>	Type Test <u>Straddle</u>	Tester <u>Kurt Karst</u>
Formation <u>Lansing "A"</u>	Interval <u>4326-4360'</u>	
On Location @ <u>9:30pm 3-2-85</u>	Off Location @ <u>8:00 am</u>	



	REPORTED	CORRECTED
Opened Tool @	<u>1:05 am</u>	<u>---</u> hrs.
Flow No. 1	<u>30</u>	<u>29</u> min.
Shut-in No. 1	<u>60</u>	<u>65</u> min.
Flow No. 2	<u>45</u>	<u>47</u> min.
Shut-in No. 2	<u>90</u>	<u>97</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>25539</u>	Cap. <u>5225</u> psi
Depth	<u>4354</u> feet	
	Inside	Outside X
Clock No.	<u>26833</u>	Hr. <u>12</u>
Initial Hydrostatic	A	<u>2133</u>
Final Hydrostatic	K	<u>2094</u>
Initial Flow	B	<u>110</u>
Final Initial Flow	C	<u>187</u>
Initial Shut-in	D	<u>1510</u>
Second Initial Flow	E	<u>260</u>
Second Final Flow	F	<u>324</u>
Second Shut-in	G	<u>1504</u>
Third Initial Flow	H	<u>--</u>
Third Final Flow	I	<u>--</u>
Third Shut-in	J	<u>--</u>

Pipe Recovery: 670' Total fluid.
 180' Heavy drilling mud = 1.77 bbls.
 490' Saltwater = 2.40 bbls.
 Bottom Sample - 74000 ppm NaCl

Surface Blow:
 1st Flow: Tool opened with a strong blow, increased to a bottom of bucket blow in 1 minute and remained throughout flow period.
 2nd Flow: Tool opened with a 4" blow, increased to a bottom of bucket blow in 11 minutes and remained throughout flow period.

Operator FOXO PRODUCTION CORP.
 Ticker No. 523
 Well Name & No. NICHOLS "G" #1
 Date 3-3-85
 DST No. 5
 Interval 4326-4360'

Drill Stem Testers, Inc.

TXO PRODUCTION CORP.

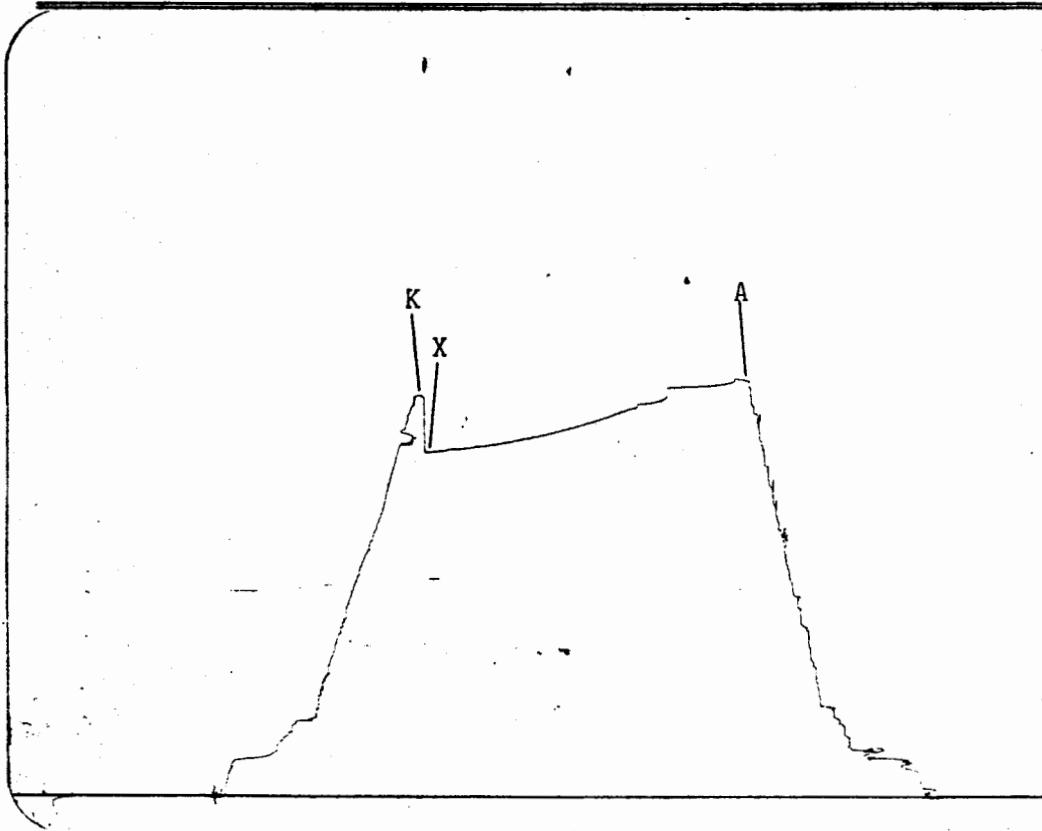
NICHOLS "G" #1

5

Operator

Well Name and No.

DST No.



Recorder Type Kuster AK-1
 No. 11017 Cap. 4750 ps
 Depth 5047 feet
 Inside _____ Outside X

Clock No. 25820 Hr. 12
 Initial Hydrostatic A 2578
 Final Hydrostatic K 2522
 Initial Flow B --
 Final Initial Flow C --
 Initial Shut-in D --
 Second Initial Flow E --
 Second Final Flow F --
 Second Shut-in G --
 Third Initial Flow H --
 Third Final Flow I --
 Third Shut-in J --
 Pressure below
 bottom packer:
 X 2182

Recorder Type _____
 No. _____ Cap. _____ ps
 Depth _____ feet
 Inside _____ Outside _____

Clock No. _____ Hr. _____
 Initial Hydrostatic A _____
 Final Hydrostatic K _____
 Initial Flow B _____
 Final Initial Flow C _____
 Initial Shut-in D _____
 Second Initial Flow E _____
 Second Final Flow F _____
 Second Shut-in G _____
 Third Initial Flow H _____
 Third Final Flow I _____
 Third Shut-in J _____

Drill Stem Testers, Inc.

INCREMENTAL READING DATA

TXO PRODUCTION CORP.

NICHOLS "G" #1

5

Operator

Well Name and No.

DST No.

RECORDER NO. 25539

DEPTH 4354 Ft.

INITIAL SHUT-IN
INITIAL FLOW TIME: T = 29

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	187
2	15.69	999
4	8.07	1398
6	5.78	1436
8	4.60	1454
10	3.89	1465
12	3.39	1474
14	3.05	1482
16	2.80	1484
18	2.61	1490
20	2.44	1492
25	2.15	1497
30	1.96	1501
35	1.82	1504
40	1.72	1505
45	1.64	1508
50	1.58	1508
55	1.52	1509
60	1.48	1509
65	1.44	1510

Drill Stem Testers, Inc.

INCREMENTAL READING DATA

TXO PRODUCTION CORP.

NICHOLS "G" #1

5

Operator

Well Name and No.

DST No.

RECORDER NO. 25539

DEPTH 4354 Ft.

FINAL SHUT-IN
TOTAL FLOW TIME: T = 76

dt min	(T+dt/dt) min	PRESSURE PSIG
0	0.00	324
2	39.69	970
4	19.63	1361
6	13.58	1418
8	10.49	1438
10	8.62	1453
12	7.29	1461
14	6.41	1469
16	5.75	1473
18	5.23	1478
20	4.78	1480
25	4.03	1487
30	3.53	1491
35	3.17	1493
40	2.90	1495
45	2.68	1497
50	2.52	1499
55	2.38	1500
60	2.26	1500
70	2.08	1503
80	1.95	1504
90	1.84	1504
97	1.78	1504