Rig No.___

Spot___

Twp.___

Field___

State__

County___

Elevation___

Formation ____

Sec._

Rng._

Contractor Graves Drlg.

8

31 S

14 W

Barber

<u>Kansas</u>

1643' KB

E/2-NE/SW

5/8"

7 7/8"

2 1/4"

120'

27561

4 1/2" XH

<u>Conventional</u>

2690'- 2756'

Surface Choke_

Bottom Choke_

Core Hole Size

DP Size & Wt_

Hole Size__

Wt. Pipe_

I.D. of DC_

Length of DC_

Total Depth__

Type Test___

Interval ___

Date	Ticket No.	Operator
10/31/83	02299	Graves Drilling Co., Inc

County, State

Barber County,

Kansas

ļ					
	Mud Type	Gel			
	Weight	9.6			
	Viscosity	33			
	Water Loss				
	Filter Cake				
	Resistivity		@		oF
	l			Ppm.	NaCl
	B.H.T	98			oF
	Co. Rep	Arder	n Ra	tzla	ff
	Tester	Will:	iam	Weave	er

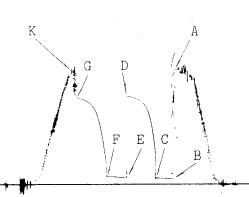
	REPOR	RTED	CORRECTE	D
Opened Tool	@	10:05		_ hrs.
Flow No.				
Shut-in No.	1	45		min.
Flow No.	2	30		min.
Shut-in No.	2	45		min.
Flow No.	3			
Shut-in No.	3	11	11	min.

Recorder Type_

Third Final Flow Third Shut-in

Kuster AK-1

No. 1553 Cap.	4350_psi
Depth	2682 feet
Inside X	Outside
	12/0
Initial Hydrostatic	A 1349
Final Hydrostatic	к1336
Initial Flow	В 74
Final Initial Flow	c78
Initial Shut-in	D1041
Second Initial Flow	E87
Second Final Flow	F101
Second Shut-in	G 1019
Third Initial Flow	H



Pipe Recovery:

200' Total fluid = 1.72 bbl.

100' Slightly gas cut mud = 1.23 bbl.

100' Slightly gas cut muddy water = 0.49 bbl.

Surface blow:

1st flow:

Tool opened with a strong blow, increased to bottom of bucket in 4 minutes and remained through flow

period.

2nd flow:

Tool opened with a strong blow and remained through

flow period. No gas to surface.

Formation

Not Reported

Phone (303) 830-8080)	Star	Hughes	Denver Center Bldg. 1776 Lincoln St., Suite 408 Denver, CO 80203	
Contractor Rig No Spot Sec Twp Rng Field County State Elevation Formation	Graves Drilling E/2-NE/SW 8 31 S 14 W Barber Kansas 1643' KB	Surface Choke Bottom Choke Hole Size Core Hole Size DP Size & Wt. Wt. Pipe I.D. of DC Length of DC Total Depth Type Test Interval	1" 5/8" 7 7/8" 4 1/2" XH 2 1/4" 120' 3010' Conventional 2986'- 3010'	Mud Type Gel Weight 9.5 Viscosity 33 Water Loss 8.0 Filter Cake 2/32 Resistivity @ OF 42,000 Ppm. NaCl B.H.T. 101 OF Co. Rep. Arden Ratzlapp Tester William Weaver	83
				Opened Tool @ 03:05 hrs. Flow No. 1 30 min. Shut-in No. 1 45 min. Flow No. 2 60 min. Shut-in No. 2 45 min. Flow No. 3 None Taken min. Shut-in No. 3 " " min. Recorder Type Kuster AK-1	
			A	No. 13635 Cap. 5600 psi Depth 3007 feet Inside Outside X Initial Hydrostatic A 1467 Final Hydrostatic K 1466	Location County, State
		G D F E C	B	Initial Flow B 148 Final Initial Flow C 104 Initial Shut-in D 1046 Second Initial Flow E 167 Second Final Flow F 146 Second Shut-in G 960 Third Initial Flow H Third Final Flow I Third Shut-in J	E/2-NE/SW S-8 Barber County,
Pipe Recover	150' 0i 230' Sl	tal fluid = 4.28 L & gas cut mud ightly oil & gas	= 2.13 bbl. s cut water = 2	2.15 bbl.	T-31S Kansas
0 17.		covery: 120,000	ppm. Cl.		R-14W
face blow: 1st flow:	Tool op 15 minu	ened with a stro tes; see gas vo	lume report.		Formation
2nd flow:	Tool op	ened with gas to	surface; see	gas volume report.	2986'- 3010' Not Reported

Star Hughes

GAS VOLUME REPORT

	Graves Dr	illing Co., Operator	Inc.		Dickinson Well Name an	#1 nd No.	DST No.
	1st	flow:			2nd flo	w:	
Min.	PSIG	Orifice Size	MCF/D	Min.	PSIG	Orifice Size	MCF/D
15	10" H ₂ 0	1"	81.0	10	15" H ₂ 0	1"	101.0
30	9" "	11	77.5	20	13" "	11	93.0
				30	7" "	11	68.0
				40	7" "	11	68.0
				50	7" "	11	68.0
				60	7" "	11	68.0
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
					,		
			1.				· · · · · · · · · · · · · · · · · · ·
	<u> </u>						

Remarks:

Gas to surface 15 minutes into the first flow period.

Phone (303) 830-8080		Star	Hughes	Denver Center Bldg. 1776 Lincoln St., Suite 408 Denver, CO 80203	
Contractor Graves D Rig No Spot E/2-NE/S Sec. 8 Twp. 31 S Rng. 14 W Field County Barber State Kansas Elevation 1643' KB Formation		Surface Choke	1" 5/8" 7 7/8" - 4 1/2" XH 2 1/4" 120' 3210' Conventional 3177'- 3210'	Mud Type Gel Weight 9.2 Viscosity 34 Water Loss Filter Cake 2/32 Resistivity @ OF 28.000 Ppm. NaCl B.H.T. 104 OF Co. Rep. Arden Ratzlapp Tester William Weaver	83
	·			REPORTED CORRECTED Opened Tool @ 09:35 hrs. Flow No. 1 30 min. Shut-in No. 2 45 min. Shut-in No. 3 None Taken min. Shut-in No. 3 """ min.	
	<u></u> ,			Recorder Type Kuster AK-1 No. 13635 Cap. 5600 psi Depth 3169 feet Inside X Outside	ocation County, St
	K	G D E	C) B	Initial Hydrostatic A 1522 Final Hydrostatic K 1517 Initial Flow B 102 Final Initial Flow C 63 Initial Shut-in D 909 Second Initial Flow E 126 Second Final Flow F 87 Second Shut-in G 1065 Third Initial Flow H Third Final Flow I Third Shut-in J	E/2-NE/SW S-8 ate Barber County,
Pipe Recovery:		ghtly gas cut overy: 92,000		.44 bbl. (no oil shows)	T-31S Kansas
face blow: 1st flow:	Tool oper		ong blow and re	emained through	R-14W
2nd flow:	Tool oper		ong blow and re	emained through	Interval Formation
					3177'- 3210' Not Reported

Phone (303) 830-8080		Star Hughes	Denver Center Bldg. 1776 Lincoln St., Suite 408 Denver, CO 80203	
Rig No. Spot E/ Sec. 8 Twp. 31 Rng. 14 Field County Ba State Ka Elevation 16	S	Surface Choke 1" Bottom Choke 5/8" Hole Size 7 7/8" Core Hole Size DP Size & Wt. 4 1/2" XH Wt. Pipe I.D. of DC 2 1/4" Length of DC 120' Total Depth 3656' Type Test Conventional Interval 3630' - 3656'	Mud Type Gel Weight 9.3 Viscosity 33 Water Loss Filter Cake 2/32 Resistivity @ OF 24,000 Ppm. NaCl B.H.T. 105 OF Co. Rep. Arden Ratzlaff Tester William Weaver	83
			Opened Tool @ 01:00 hrs. Flow No. 1 30 min. Shut-in No. 2 60 min. Shut-in No. 2 45 min. Flow No. 3 None Taken min. Shut-in No. 3 " " min.	
		K A	Recorder Type Kuster AK-1 No. 13635 Cap. 5600 psi Depth 3622 feet Inside X Outside	County, S
		G D F E C B	Initial Hydrostatic A 1816 Final Hydrostatic K 1799 Initial Flow B 89 Final Initial Flow C 85 Initial Shut-in D 1199 Second Initial Flow E 183 Second Final Flow F 175 Second Shut-in G 1153 Third Initial Flow I Third Shut-in J	Barber County,
Pipe Recovery:	360' Mudd Midd	y water le sample: 86,000 ppm. Cl.		Kansas
face blow: 1st flow: 2nd flow:	of bucket period. Tool open	ed with a strong blow, increa in 20 minutes and remained t ed with a strong blow, increa in 30 minutes and remained t	through flow ased to bottom	Formation
	period.			Not Reported

Phone (303) 830-8080	Star	Hughes	Denver Center Bidg. 1776 Lincoln St., Suite 408 Denver, CO 80203	
Contractor Graves Dri Rig No Spot E/2-NE/SW Sec. 8 Twp. 31 S Rng. 14 W Field County Barber State Kansas Elevation 1643' KB Formation Viola	Surface Choke	1 1/2" 5/8" 7 7/8" 4 1/2" XH 2 1/4" 120' 4400' Conventional 4379' - 4400'	Mud TypeGel	Operator Graves Drilling Ticket No. 02303 Date 11/5/83
			Перовтер Соврестер Орепеd Tool @ 03:15 hrs. Flow No. 1 15 min. Shut-in No. 1 45 min. Flow No. 2 None Taken min. Shut-in No. 2 " " min. Flow No. 3 " " min. Shut-in No. 3 " " min.	Co., Inc.
		X A D B	Recorder Type Kuster AK-1 No. 13635 Cap. 5600 psi Depth 4371 feet Inside X Outside Initial Hydrostatic A 2195 Final Hydrostatic K 2167 Initial Flow B 1053 Final Initial Flow C 1065 Initial Shut-in D 1509	ation anty, State
			Second Initial Flow E Second Final Flow F Second Shut-in G Third Initial Flow H Third Final Flow I Third Shut-in J	E/2-NE/SW S-8 Barber County,
	Test flowed gas & oil Gravity: 37.0° API @ 6		ted)	T-31S Kansas
1	Tool opened with a struminutes, increased to in 5 minutes = 1,036.0 minutes.	7.0 psig on a 1 1	/2" orifice	R-14W Interval Formation
	was picked up enough to fill the interval bewas then made to leave could be asked about retrieved to the tool was then set to open the hydraulic to the downward force on fluid below the packer.	o open the bypass elow the packers the tool on bott everse circulatine back on bottom without, however the the packers causes which resulted chart). The cur	th enough weight to shut-in tool was closed. ed compression of the in the appearance of eve at point "X" is not	to. 5 at 4379'- 4400' tion Viola

Phone (303) 830-8080	Star	Hughes	Denver Center Bldg. 1776 Lincoln St., Suite 408 Denver, CO 80203	
Contractor Graves Rig No Spot E/2-NE Sec. 8 Twp. 31 S Rng. 14 W Field County Barber State Kansas Elevation 1643' Formation Simpso	Core Hole Size _ DP Size & Wt_ Wt. Pipe I.D. of DC Length of DC Total Depth KB Type Test	7 7/8"	Mud Type Gel Weight 9.0 Viscosity 43 Water Loss 12.9 Filter Cake 2/32 Resistivity @ oF 11,000 Ppm. NaCl B.H.T. 120 oF Co. Rep. Arden Ratzlaff Tester William Weaver	83
			Opened Tool @ 03:20 hrs. Flow No. 1 30 min. Shut-in No. 2 30 min. Shut-in No. 2 30 min. Shut-in No. 3 None Taken min. Shut-in No. 3 " " min.	
	K X	A	Recorder Type Kuster AK-1 No. 13635 Cap. 5600 psi Depth 4442 feet Inside X Outside Initial Hydrostatic A 2123 Final Hydrostatic K 2129 Initial Flow B 102	Location County, State
	G F E	D C B	Final Initial Flow C 41 Initial Shut-in D 46 Second Initial Flow E 49 Second Final Flow F 45 Second Shut-in G 42 Third Initial Flow H Third Final Flow I Third Shut-in J	E/2-NE/SW S-8 Barber County,
Pipe Recovery:	15' Drilling mud = 0.	07 bbl.	Time state.	T-31S Kansas
rface blow: 1st flow:	Tool opened with a we remained through flow		15 minutes and	S R-14W
2nd flow:	Tool opened with no b reopened with a surge flow period.			Interval Formation
·				4450'- 4473' Simpson

Phone (303) 830-8080		Star Hughes		
Rig No. Spot E/2 Sec. 8 Twp. 31 Rng. 14 Field County Bai State Kar		Surface Choke 1" Bottom Choke 5/8" Hole Size 7 7/8" Core Hole Size DP Size & Wt. 4 1/2" XI Wt. Pipe I.D. of DC 2 1/4" Length of DC 120' Total Depth 4573' Type Test Conventice Interval 4557' - 45	Mud Type Gel Weight 9.2 Viscosity 50 Water Loss 12.5 Filter Cake 2/32 Resistivity @ OF 11,000 Ppm. NaCl B.H.T. 123 OF Onal Co. Rep. Arden Ratzlaff	Ticket No. 02305 Date 11/7/83
			REPORTED CORRECTED Opened Tool @ 01:00 hrs. Flow No. 1 30 min. Shut-in No. 1 45 min. Flow No. 2 60 min. Shut-in No. 2 45 min. Flow No. 3 None Taken min. Shut-in No. 3 " " min.	+1100
		К А	Recorder Type Kuster AK-1 No. 13635 Cap. 5600 psi Depth 4549 feet Inside X Outside	Location County, Sta
		G D F E C B	Initial Hydrostatic A 2204 Final Hydrostatic K 2207 Initial Flow B 56 Final Initial Flow C 50 Initial Shut-in D 1622 Second Initial Flow E 120 Second Final Flow F 94 Second Shut-in G 1595 Third Initial Flow H Third Final Flow I	E/2-NE/SW S-8 te Barber County.
Pipe Recovery:	30' 0 60' 0	otal fluid = 1.87 bbl. il = 0.43 bbl. il cut mud = 0.85 bbl.		T-31S
		lightly oil cut, muddy wate il gravity: 23.0° API @ 60°		R-14W
face blow: 1st flow:	Tool o	pened with a weak, 3/4" blo eriod.	ow and remained through	Interval Formation
2nd flow:	Tool o	pened with a weak, 3/4" bloeriod.	ow and remained through	4557'- 4573' Not Reported