

15-009-24759

JUL 21 2004

13-20s-1hw

CONSERVATION DIVISION  
WICHITA, KS

### DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313

Page 1 of 2 Pages

Company Key Gas Corporation Lease & Well No. Meyer No. 5  
 Elevation 1750 EGL Formation Toronto Effective Pay -- Ft. Ticket No. 1734  
 Date 7-3-03 Sec. 13 Twp. 20S Range 11W County Barton State Kansas  
 Test Approved By Rod Andersen Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 2,840 ft. to 2,956 ft. Total Depth 2,956 ft.  
 Packer Depth 2,835 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
 Packer Depth 2,840 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
 Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 2,828 ft. Recorder Number Elec. Cap. 5,000 psi  
 Bottom Recorder Depth (Outside) 2,953 ft. Recorder Number 13386 Cap. 4,000 psi  
 Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

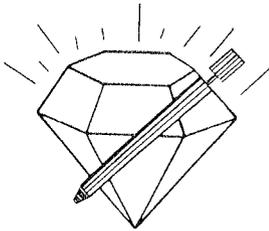
Drilling Contractor Ace Drill-N, Inc. Drill Collar Length 457 ft. I.D. 2 1/4 in.  
 Mud Type Chemical Viscosity 47 Weight Pipe Length -- ft. I.D. -- in.  
 Weight 8.9 Water Loss 10.4 cc. Drill Pipe Length 2,358 ft. I.D. 3 1/2 in.  
 Chlorides 5,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.  
 Jars: Make Bowen Serial Number Not Run Anchor Length 23' Perf. w/93' drillpipe Size 4 1/2 - FH in.  
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.  
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Weak, surface blow. Died in 6 mins.  
2nd Open: No blow.

Recovered 10 ft. of drilling mud with a few oil specks in tool = .049200 bbls.  
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of         

Remarks         

Time Set Packer(s) 11:05 ~~XXM.~~ P.M. Time Started Off Bottom 1:05 ~~P.M.~~ A.M. Maximum Temperature 102°  
 Initial Hydrostatic Pressure          (A) 1339 P.S.I.  
 Initial Flow Period          Minutes 30 (B) 9 P.S.I. to (C) 12 P.S.I.  
 Initial Closed In Period          Minutes 30 (D) 119 P.S.I.  
 Final Flow Period          Minutes 30 (E) 14 P.S.I. to (F) 17 P.S.I.  
 Final Closed In Period          Minutes 30 (G) 63 P.S.I.  
 Final Hydrostatic Pressure          (H) 1316 P.S.I.



**DIAMOND TESTING**  
P. O. Box 157  
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(800) 542-7313

**FLUID SAMPLE DATA**

Company Key Gas Corporation  
Lease & Well No. Meyer No. 5  
Date 7-3-03 Sec. 13 Twp. 20 S Range 11 W  
Formation Test No. 1 Interval Tested From 2,840 ft. to 2,956 ft. Total Depth 2,956 ft.  
Formation Toronto

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>47</u> CP	<u>46</u> CP
Weight	<u>8.9</u>	<u>9.0</u>
Water Loss	<u>10.4</u> CC	<u>10.4</u> CC
PH Factor	<u>11.0</u>	<u>10.5</u>

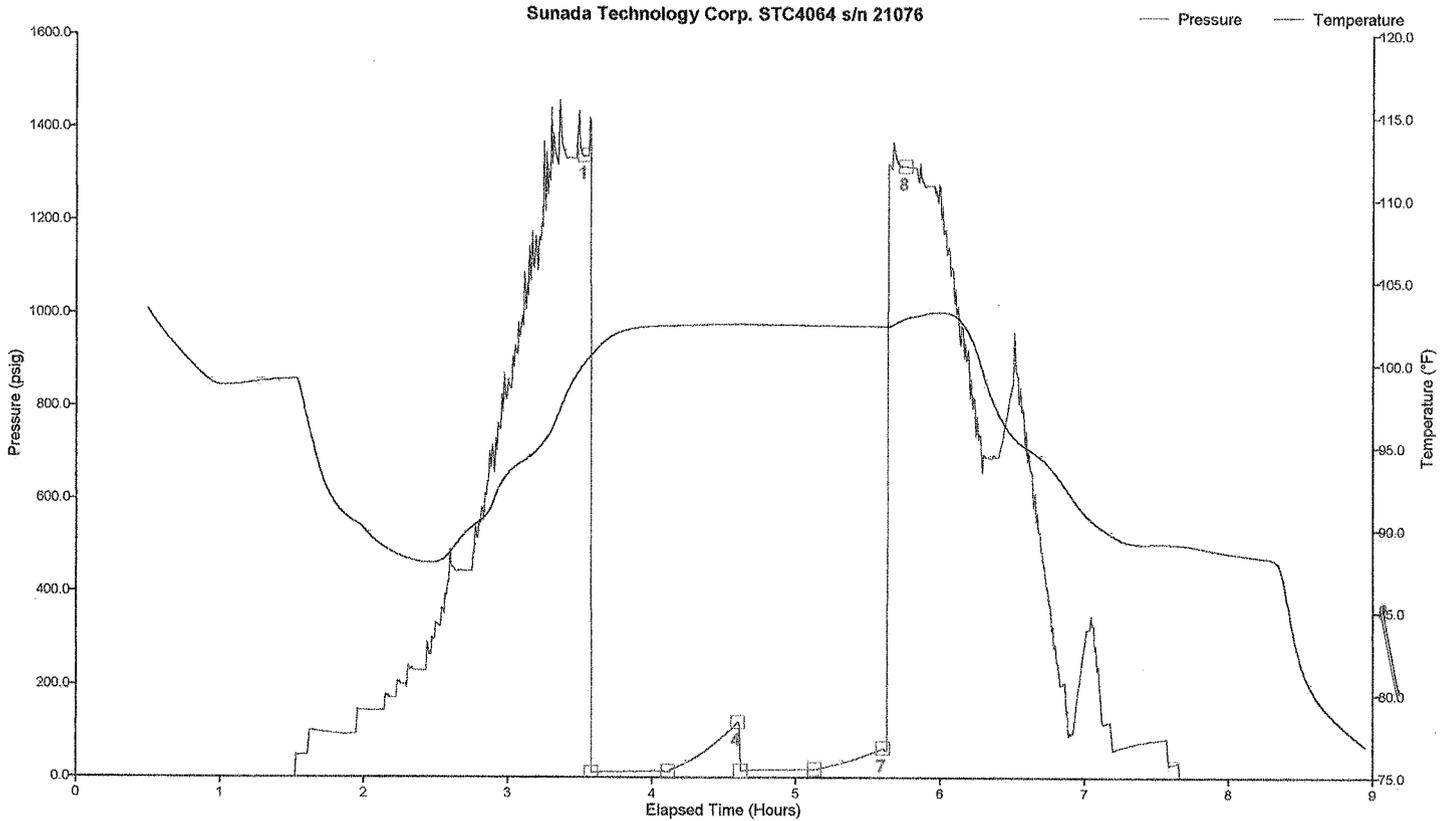
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>.75</u> @ <u>78</u> °F.	<u>7,600</u> ppm
Recovery Mud Filtrate	<u>.85</u> @ <u>74</u> °F.	<u>7,200</u> ppm
Mud Pit Sample	<u>.60</u> @ <u>90</u> °F.	<u>8,200</u> ppm
Mud Pit Sample Filtrate	<u>.68</u> @ <u>82</u> °F.	<u>7,900</u> ppm

Sample Taken By ROGER D. FRIEDLY

Witness By Rod Andersen

Remarks Pit filtrate triton dish chlorides were 5,000 Ppm  
Recovery filtrate triton dish chlorides were 5,000 Ppm

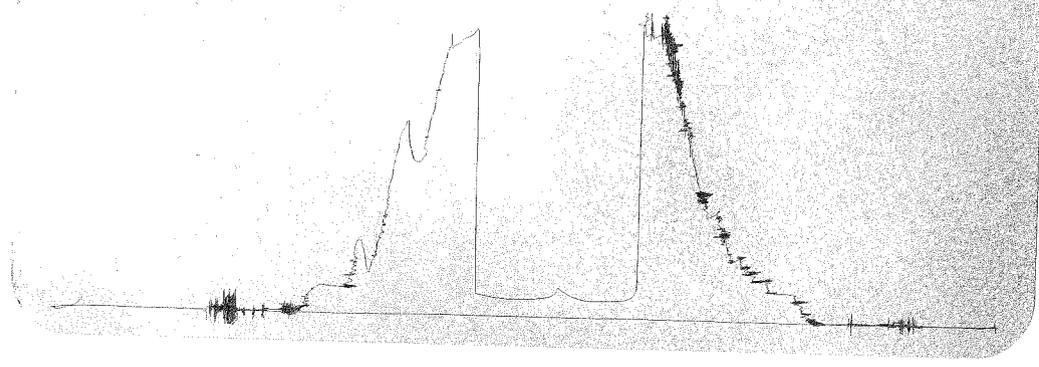
Well LSD: DST #1 TORONTO 2840'-2956'  
 Well Name: MARY MYERS 5  
 Company: KEY GAS CORP  
 Battery on: Jul 3, 2003 at 19:30:00  
 Notes: RECOVERED 10' DM WITH A FEW OIL SPECKS IN TOOL.



Tag	Pressure	Temperature	Comment
1	1338.91 psig	100.10 °F	2003-07-03 23:02:00
2	8.64 psig	100.63 °F	2003-07-03 23:05:00
3	12.24 psig	102.36 °F	2003-07-03 23:37:00
4	119.07 psig	102.46 °F	2003-07-04 00:06:00
5	13.82 psig	102.46 °F	2003-07-04 00:07:00
6	17.07 psig	102.39 °F	2003-07-04 00:38:00
7	62.59 psig	102.34 °F	2003-07-04 01:06:30
8	1315.93 psig	102.83 °F	2003-07-04 01:15:30

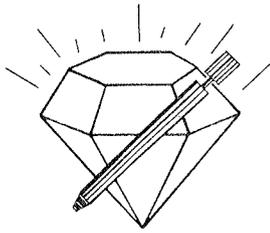
DST # 1 outside 13386  
 TORONTO

2840 - 2956  
 LOC 2953



This is an actual photograph of recorder chart.

POINT	PRESSURE		E1ec. Office Reading	PSI
	Field Reading			
(A) Initial Hydrostatic Mud .....	1339	1339		
(B) First Initial Flow Pressure.....	9	9		
(C) First Final Flow Pressure .....	12	12		
(D) Initial Closed-in Pressure .....	119	119		
(E) Second Initial Flow Pressure .....	14	14		
(F) Second Final Flow Pressure.....	17	17		
(G) Final Closed-in Pressure.....	63	63		
(H) Final Hydrostatic Mud .....	1316	1316		



# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313

Company Key Gas Corporation Lease & Well No. Meyer No. 5  
Elevation 1750 EGL Formation Lansing/Kansas City Effective Pay -- Ft. Ticket No. 1735  
Date 7-5-03 Sec. 13 Twp. 20S Range 11W County Barton State Kansas

Test Approved By Rod Andersen Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 3,005 ft. to 3,111 ft. Total Depth 3,111 ft.

Packer Depth 3,000 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,005 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 2,993 ft. Recorder Number          Elec.          Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,108 ft. Recorder Number 13386 Cap. 4,000 psi

Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

Drilling Contractor Ace Drill-N, Inc. Drill Collar Length 457 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.0 Water Loss 10.4 cc. Drill Pipe Length 2,523 ft. I.D. 3 1/2 in.

Chlorides 5,200 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 45' perf. w/61' drillpipe Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Weak, 3/4 in., blow increasing to 3 1/2 ins. No blow back during shut-in.

2nd Open: Weak, surface blow increasing to 1 in. No blow back during shut-in.

Recovered 152 ft. of drilling mud = .747840 bbls.

Recovered          ft. of         

Recovered          ft. of         

Recovered          ft. of         

Recovered          ft. of         

Remarks Washed drill collar. Leaking on trip out of hole.

A few oil specks & good gassy odor in tool.

Time Set Packer(s) 12:23 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 3:23 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 102°

Initial Hydrostatic Pressure          (A) 1443 P.S.I.

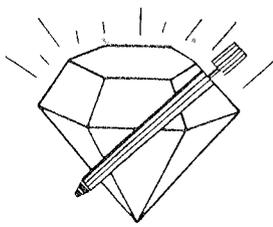
Initial Flow Period          Minutes 30 (B) 44 P.S.I. to (C) 82 P.S.I.

Initial Closed In Period          Minutes 60 (D) 694 P.S.I.

Final Flow Period          Minutes 30 (E) 88 P.S.I. to (F) 115 P.S.I.

Final Closed In Period          Minutes 60 (G) 681 P.S.I.

Final Hydrostatic Pressure          (H) 1434 P.S.I.



**DIAMOND TESTING**  
P. O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

**FLUID SAMPLE DATA**

Company Key Gas Corporation  
Lease & Well No. Meyer No. 5  
Date 7-5-03 Sec. 13 Twp. 20 S Range 11 W  
Formation Test No. 2 Interval Tested From 3,005 ft. to 3,111 ft. Total Depth 3,111 ft.  
Formation Lansing/Kansas City

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>46</u> CP	<u>47</u> CP
Weight	<u>9.0</u>	<u>9.0</u>
Water Loss	<u>10.4</u> CC	<u>10.0</u> CC
PH Factor	<u>10.5</u>	<u>11.0</u>

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>.66</u> @ <u>72</u> °F.	<u>9,000</u> ppm
Recovery Mud Filtrate	<u>.67</u> @ <u>73</u> °F.	<u>9,000</u> ppm
Mud Pit Sample	<u>.92</u> @ <u>70</u> °F.	<u>7,000</u> ppm
Mud Pit Sample Filtrate	<u>.98</u> @ <u>72</u> °F.	<u>6,400</u> ppm

Sample Taken By ROGER D. FRIEDLY

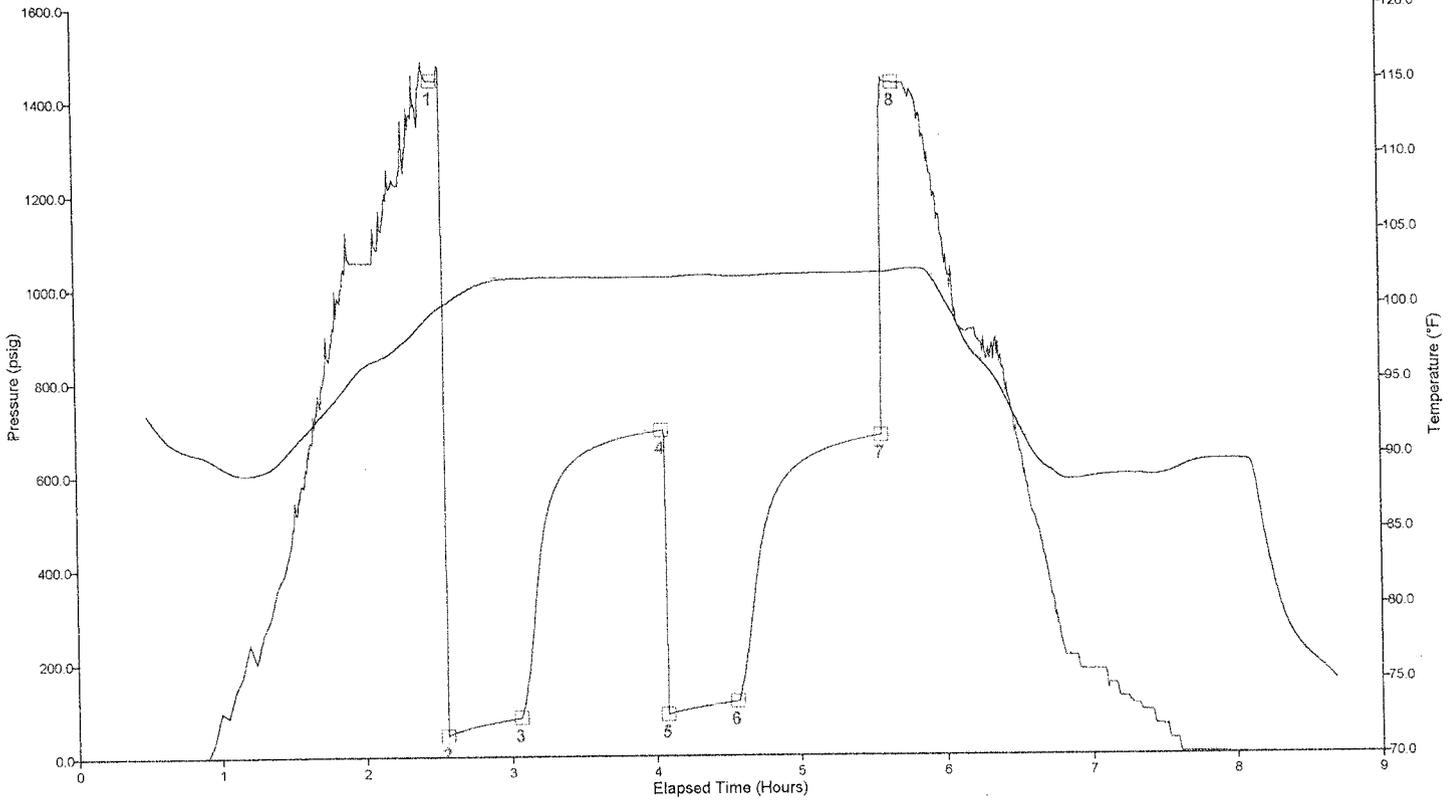
Witness By Rod Andersen

Remarks Pit filtrate triton dish chlorides were 5,200 Ppm  
Recovery filtrate triton dish chlorides were 5,800 Ppm

Well LSD: DST #2 LKC 3055'-3111'  
 Well Name: MARY MYERS 5  
 Company: KEY GAS CORP  
 Battery on: Jul 4, 2003 at 21:50:00  
 Notes: RECOVERED 152' DM FEW OIL SPECKS & GOOD ODOR IN TOOL.

Sunada Technology Corp. STC4064 s/n 21076

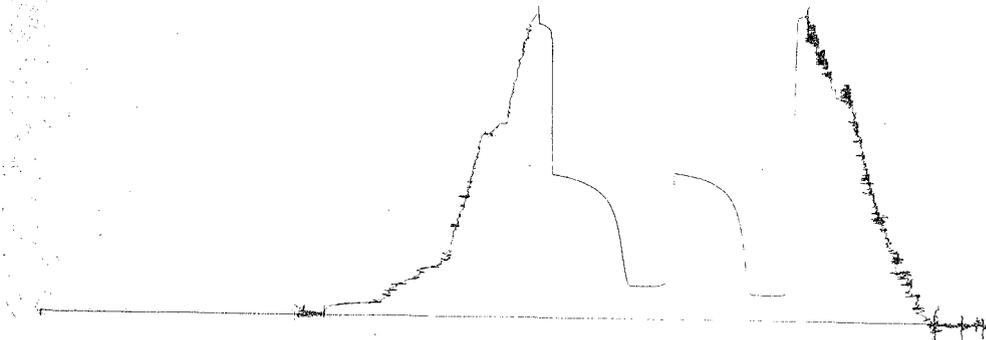
— Pressure — Temperature



Tag	Pressure	Temperature	Comment
1	1443.45 psig	99.70 °F	2003-07-05 00:19:30
2	43.61 psig	100.15 °F	2003-07-05 00:23:30
3	82.25 psig	101.88 °F	2003-07-05 00:54:00
4	693.62 psig	101.92 °F	2003-07-05 01:53:30
5	87.95 psig	101.92 °F	2003-07-05 01:55:00
6	115.48 psig	101.95 °F	2003-07-05 02:24:00
7	681.18 psig	102.17 °F	2003-07-05 03:24:30
8	1433.89 psig	102.29 °F	2003-07-05 03:30:30

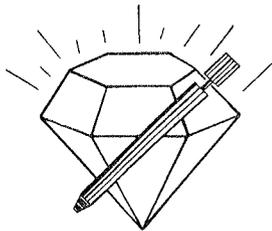
D-1 # 2 Outside 1338  
LKC

3005-3111  
LOC 3108



This is an actual photograph of recorder chart.

POINT	PRESSURE Elec.		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	1443	1443	PSI
(B) First Initial Flow Pressure .....	44	44	PSI
(C) First Final Flow Pressure .....	82	82	PSI
(D) Initial Closed-in Pressure .....	694	694	PSI
(E) Second Initial Flow Pressure .....	88	88	PSI
(F) Second Final Flow Pressure .....	115	115	PSI
(G) Final Closed-in Pressure .....	681	681	PSI
(H) Final Hydrostatic Mud .....	1434	1434	PSI



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Company Key Gas Corporation Lease & Well No.                      Meyer No. 5

Elevation 1750 EGL Formation Arbuckle Effective Pay                      -- Ft. Ticket No. 1736

Date 7-6-03 Sec. 13 Twp. 20S Range 11W County Barton State Kansas

Test Approved By Rod Andersen Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 3,275 ft. to 3,290 ft. Total Depth 3,290 ft.

Packer Depth 3,270 ft. Size 6 3/4 in. Packer Depth                      -- ft. Size                      -- in.

Packer Depth 3,275 ft. Size 6 3/4 in. Packer Depth                      -- ft. Size                      -- in.

Depth of Selective Zone Set                      ft.

Top Recorder Depth (Inside)                      3,258 ft. Recorder Number                      Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside)                      3,287 ft. Recorder Number 13386 Cap. 4,000 psi

Below Straddle Recorder Depth                      ft. Recorder Number                      Cap.                      psi

Drilling Contractor Ace Drill-N, Inc. Drill Collar Length 396 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 46 Weight Pipe Length                      -- ft. I.D.                      -- in.

Weight 9.45 Water Loss 10.4 cc. Drill Pipe Length 2,854 ft. I.D. 3 1/2 in.

Chlorides 6,200 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 15 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 30 secs. No blow back during shut-in.  
2nd Open: Fair, 2 in., blow increasing. Off bottom of bucket in 3 mins. Decreasing in 15 mins to 6 ins. at end.  
No blow back during shut-in.

Recovered 90 ft. of gas in pipe

Recovered 387 ft. of muddy water with a trace of oil throughout = 1.904040 bbls. (Grind out: 40%-mud; 60%-water)

Recovered 1,915 ft. of salt water with a few traces of oil throughout = 14.148680 bbls.

Recovered 2,302 ft. of TOTAL FLUID = 16.052720 bbls.

Recovered                      ft. of                     

Remarks                     

Time Set Packer(s) 11:33 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom 2:33 ~~P.M.~~ <sup>XXX</sup> Maximum Temperature 108°

Initial Hydrostatic Pressure                      (A) 1567 P.S.I.

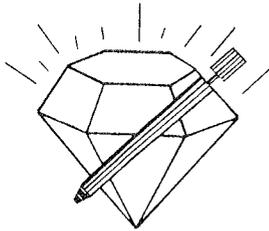
Initial Flow Period                      Minutes 30 (B) 325 P.S.I. to (C) 942 P.S.I.

Initial Closed In Period                      Minutes 60 (D) 985 P.S.I.

Final Flow Period                      Minutes 30 (E) 950 P.S.I. to (F) 986 P.S.I.

Final Closed In Period                      Minutes 60 (G) 988 P.S.I.

Final Hydrostatic Pressure                      (H) 1564 P.S.I.



**DIAMOND TESTING**  
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HOISINGTON, KANSAS 67544  
(800) 542-7313

**FLUID SAMPLE DATA**

Company Key Gas Corporation  
Lease & Well No. Meyer No. 5  
Date 7-6-03 Sec. 13 Twp. 20 S Range 11 W  
Formation Test No. 3 Interval Tested From 3,275 ft. to 3,290 ft. Total Depth 3,290 ft.  
Formation Arbuckle

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>46</u> CP	<u>--</u> CP	
Weight	<u>9.45</u>	<u>--</u>	
Water Loss	<u>10.4</u> CC	<u>--</u> CC	Water
PH Factor	<u>11.0</u>	<u>--</u>	<u>6.0</u>

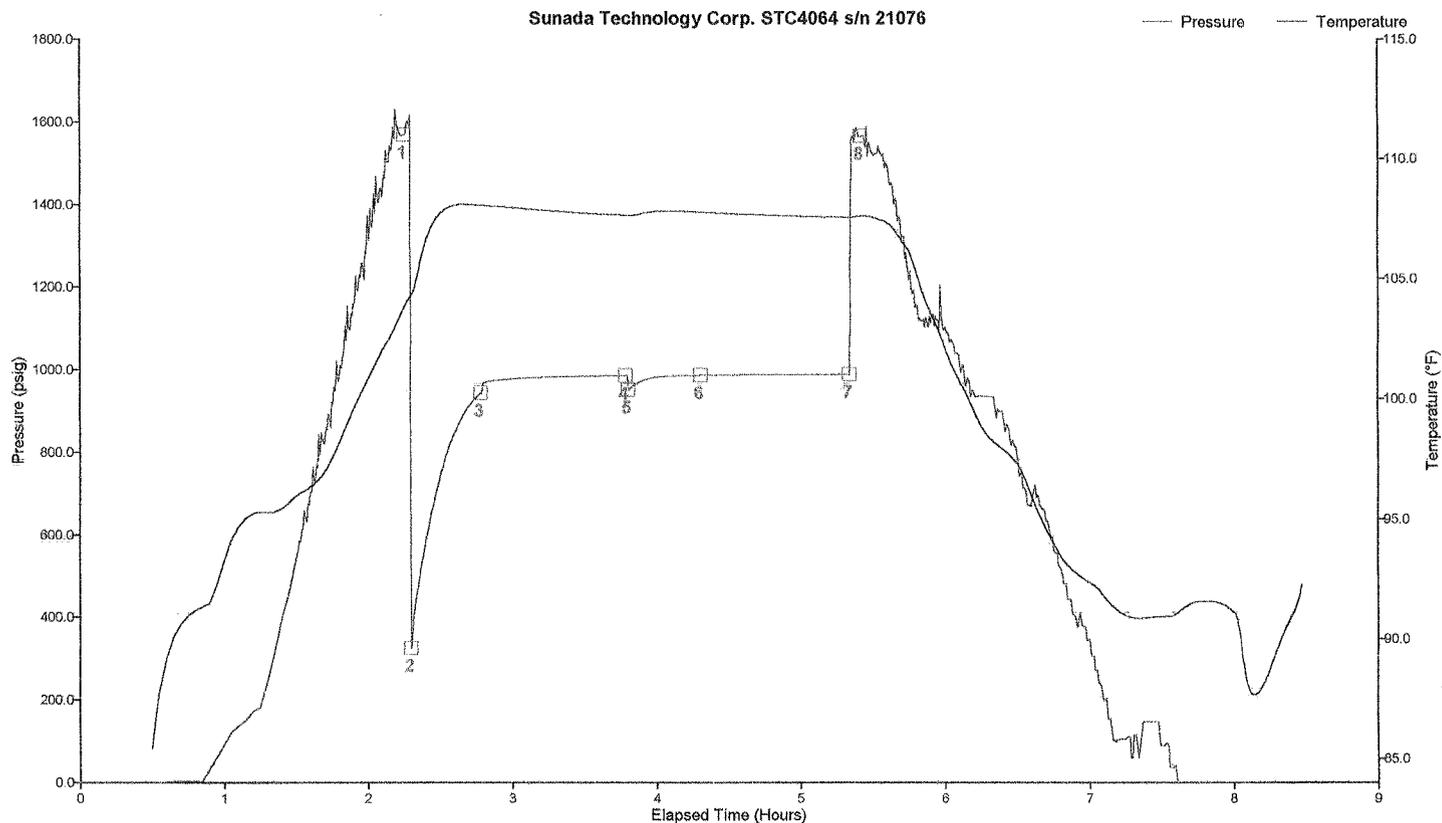
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.34 @ 98 °F.</u>	<u>14,000 ppm</u>
Recovery Mud	<u>-- @ -- °F.</u>	<u>-- ppm</u>
Recovery Mud Filtrate	<u>-- @ -- °F.</u>	<u>-- ppm</u>
Mud Pit Sample	<u>.58 @ 98 °F.</u>	<u>8,000 ppm</u>
Mud Pit Sample Filtrate	<u>.60 @ 99 °F.</u>	<u>7,400 ppm</u>

Sample Taken By ROGER D. FRIEDLY

Witness By Rod Andersen

Remarks Pit filtrate triton dish chlorides were 6,200 Ppm  
Recovery water dish chlorides were 12,500 Ppm

Well LSD: DST #3 ARB 3275'-3290'  
 Well Name: MARY MEYERS 5  
 Company: KEY GAS CORP  
 Battery on: Jul 6, 2003 at 09:15:00  
 Notes: RECOVERED 387' MW, 1915' SW, WITH 90' GAS IN PIPE



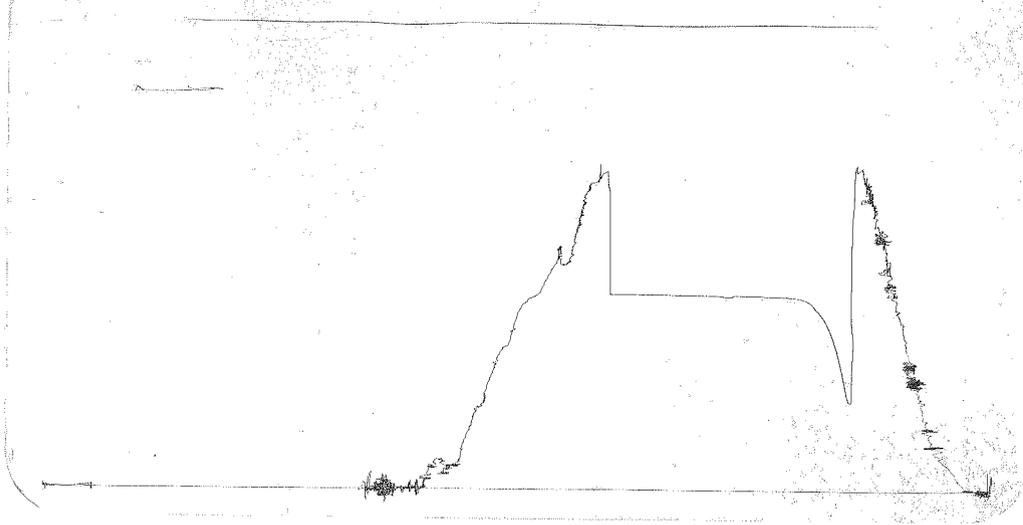
Tag	Pressure	Temperature	Comment
1	1567.13 psig	103.83 °F	2003-07-06 11:30:00
2	324.88 psig	104.32 °F	2003-07-06 11:33:00
3	942.25 psig	108.06 °F	2003-07-06 12:02:00
4	985.32 psig	107.64 °F	2003-07-06 13:02:30
5	949.97 psig	107.64 °F	2003-07-06 13:03:30
6	985.95 psig	107.76 °F	2003-07-06 13:33:30
7	987.81 psig	107.56 °F	2003-07-06 14:35:30
8	1563.65 psig	107.61 °F	2003-07-06 14:40:00

DST # 3 outside 13386

ARB

3275-3290

Loc 2237



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud .....	1567	1567	PSI
(B) First Initial Flow Pressure.....	325	325	PSI
(C) First Final Flow Pressure .....	942	942	PSI
(D) Initial Closed-in Pressure .....	985	985	PSI
(E) Second Initial Flow Pressure .....	950	950	PSI
(F) Second Final Flow Pressure.....	986	986	PSI
(G) Final Closed-in Pressure.....	988	988	PSI
(H) Final Hydrostatic Mud .....	1564	1564	PSI