

ORIGINAL

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

Company Landmark Energy Exploration, Inc. Lease & Well No. Friesen No. 1-17
Elevation 2531 KB Formation Council Grove Effective Pay --- Ft. Ticket No. 1080
Date 1-4-99 Sec. 17 Twp. 32S Range 27W County Meade State Kansas
Test Approved By Craig Caulk Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,198 ft. to 3,305 ft. Total Depth 3,528 ft.

Packer Depth 3,193 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.

Packer Depth 3,198 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.

Depth of Selective Zone Set 3,305 ft.

Top Recorder Depth (Inside) 3,179 ft. Electronic Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,298 ft. Recorder Number 13386 Cap. 3,875 psi

Below Straddle Recorder Depth 3,525 ft. Recorder Number 13556 Cap. 5,475 psi

Drilling Contractor Abercrombie Drlg Inc. - Rig 5 Drill Collar Length 403 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 47 Weight Pipe Length --- ft. I.D. 2 7/8 in.

Weight 8.8 Water Loss --- cc. Drill Pipe Length 2,763 ft. I.D. 3 1/2 in.

Chlorides --- P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 1 Anchor Length 107 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Tail pipe 223 ft. 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: MISRUN at 530 ft.

Recovered 530 ft. of drilling mud = 3.49277 bbls.

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Remarks Tried to set packer three times

Time Set Packer(s) 5:20 ~~XXX~~ P.M. Time Started Off Bottom 5:25 ~~XXX~~ P.M. Maximum Temperature 94°

Initial Hydrostatic Pressure (A) 1402 P.S.I.

Initial Flow Period Minutes 5 (B) --- P.S.I. to (C) --- P.S.I.

Initial Closed In Period Minutes 0 (D) --- P.S.I.

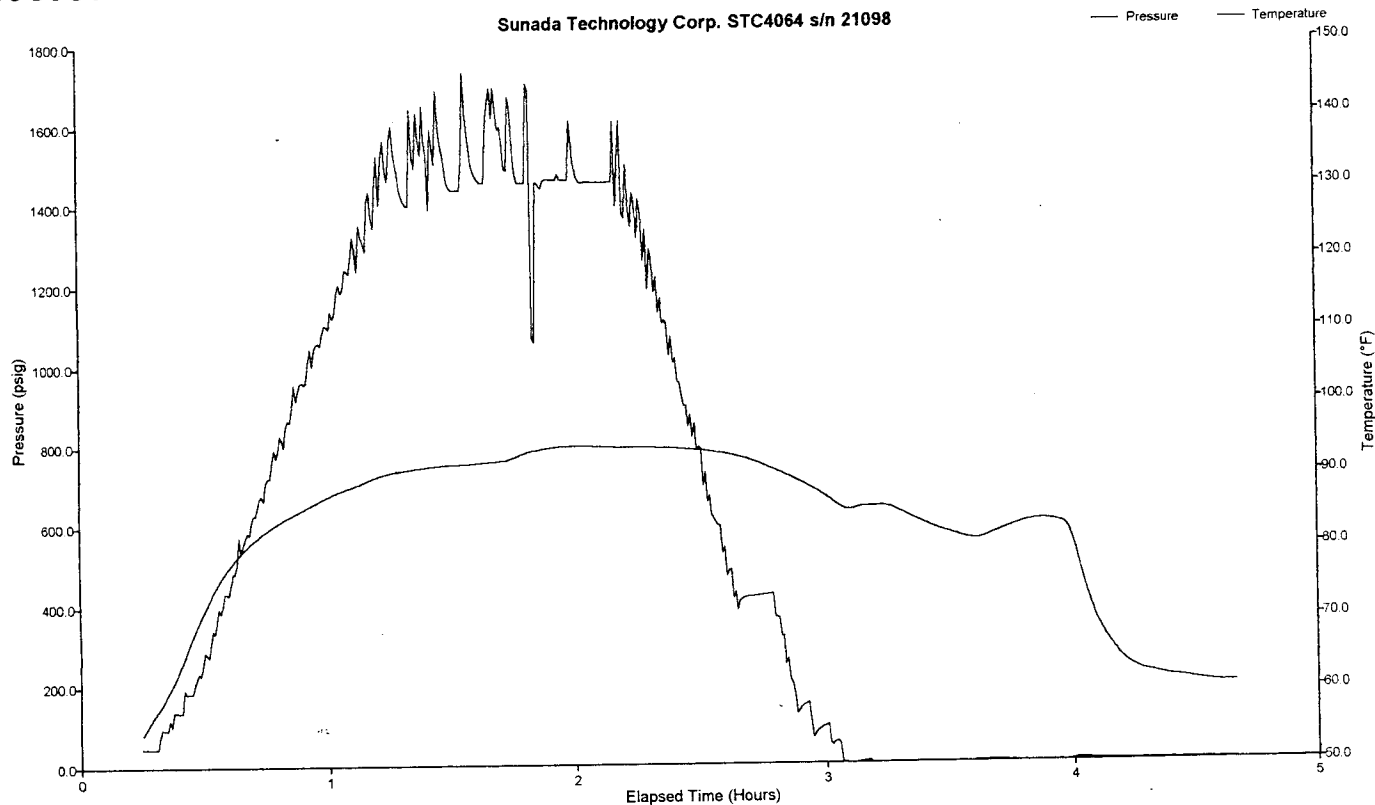
Final Flow Period Minutes 0 (E) --- P.S.I. to (F) --- P.S.I.

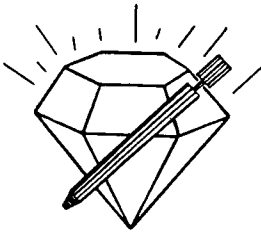
Final Closed In Period Minutes 0 (G) --- P.S.I.

Final Hydrostatic Pressure (H) 1455 P.S.I.

Well LSD: DST #1.
Well Name: FRIESEN 1-17 DST 1
Company: LANDMARK ENERGY
Battery on: Jan 4, 1999 at 15:40:00
Notes: RECOVERED 530' HEAVY DRILLING MUD. MISRUN.

ORIGINAL





ORIGINAL

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

Company Landmark Energy Exploration, Inc. Lease & Well No. Friesen No. 1-17
Elevation 2531 KB Formation Council Grove Effective Pay --- Ft. Ticket No. 1081
Date 1-4-99 Sec. 17 Twp. 32S Range 27W County Meade State Kansas
Test Approved By Craig Caulk Diamond Representative Roger D. Friedly
Formation Test No. 2 Interval Tested from 3,222 ft. to 3,306 ft. Total Depth 3,528 ft.
Packer Depth 3,217 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.
Packer Depth 3,222 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.
Depth of Selective Zone Set 3,306 ft.
Top Recorder Depth (Inside) 3,203 ft. Electronic Recorder Number 21098 Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,299 ft. Recorder Number 13386 Cap. 3,875 psi
Below Straddle Recorder Depth 3,523 ft. Recorder Number 13556 Cap. 5,475 psi
Drilling Contractor Abercrombie Drlg Inc., - Rig 5 Drill Collar Length 403 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 47 Weight Pipe Length --- ft. I.D. 2 7/8 in.
Weight 8.8 Water Loss --- cc. Drill Pipe Length 2,787 ft. I.D. 3 1/2 in.
Chlorides --- P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number 1 Anchor Length 84 ft. Size 4 1/2 - FH in.
Did Well Flow? No Reversed Out No Tail pipe 222 ft. Bottom Choke Size 5/8 in.
Surface Choke Size 1 in. Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.
Blow: 1st Open: MISRUN!

Recovered 630 ft. of heavy thick drilling mud = 4.68179 bbls.

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

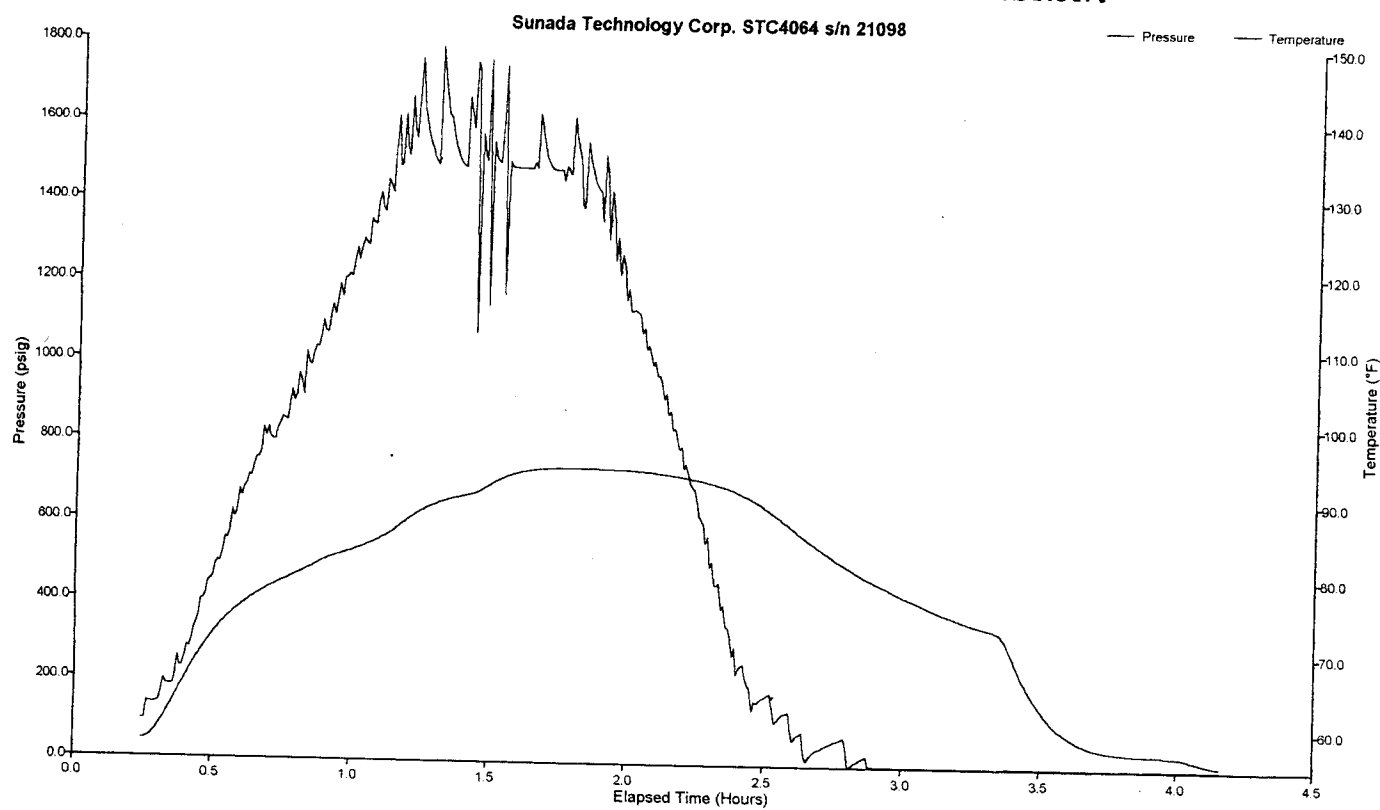
Remarks Tried to set packers three times.

Time Set Packer(s) 10:50 ~~XXXXX~~ P.M. Time Started Off Bottom 10:55 ~~XXX~~ P.M. Maximum Temperature 94°
Initial Hydrostatic Pressure (A) 1487 P.S.I.
Initial Flow Period Minutes 5 (B) --- P.S.I. to (C) --- P.S.I.
Initial Closed In Period Minutes 0 (D) --- P.S.I.
Final Flow Period Minutes 0 (E) --- P.S.I. to (F) --- P.S.I.
Final Closed In Period Minutes 0 (G) --- P.S.I.
Final Hydrostatic Pressure (H) 1482 P.S.I.

Well LSD: ~~DST~~ # 2
 Well Name: FRIESEN 1-17 DST 2
 Company: LANDMARK ENERGY
 Battery on: Jan 4, 1999 at 21:33:00

ORIGINAL

Notes: RECOVERED 630' HEAVY THICK DRILLING MUD. MISRUN.



POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1487	1487	PSI
(B) First Initial Flow Pressure	--	--	PSI
(C) First Final Flow Pressure	--	--	PSI
(D) Initial Closed-in Pressure	--	--	PSI
(E) Second Initial Flow Pressure	--	--	PSI
(F) Second Final Flow Pressure	--	--	PSI
(G) Final Closed-in Pressure	--	--	PSI
(H) Final Hydrostatic Mud	1482	1482	PSI

COMPANY Landmark Energy Exploration, Inc. LEASE AND WELL NO. Friesen No. 1-17 SEC. 17 TWP. 32S RGE. 27W TEST NO. 2 DATE 1-4-99



DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

ORIGINAL

Company Landmark Energy Exploration, Inc. Lease & Well No. Friesen No. 1-17
Elevation 2531 KB Formation Atoka Effective Pay --- Ft. Ticket No. 1082
Date 1-10-99 Sec. 17 Twp. 32S Range 27W County Meade State Kansas

Test Approved By Craig Caulk Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 5,482 ft. to 5,600 ft. Total Depth 5,720 ft.

Packer Depth 5,477 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.

Packer Depth 5,482 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.

Depth of Selective Zone Set 5,600 ft.

Top Recorder Depth (Inside) 5,463 ft. Electronic Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 5,593 ft. Recorder Number 13386 Cap. 3,875 psi

Below Straddle Recorder Depth 5,717 ft. Recorder Number 13556 Cap. 5,475 psi

Drilling Contractor Abercrombie Drlg Inc., - Rig 5 Drill Collar Length 276 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 53 Weight Pipe Length --- ft. I.D. --- in.

Weight 9.2 Water Loss 8.0 cc. Drill Pipe Length --- ft. I.D. --- in.

Chlorides 2,500 P.P.M. Test Tool Length 32 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number 1 Anchor Length 24' perf. w/94' drillpipe Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Tail pipe 120 ft. 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, $\frac{1}{2}$ in., blow increasing to $2\frac{1}{2}$ ins. Decreasing after 20 mins. to 2 ins. at end.

2nd Open: No blow.

Recovered 110 ft. of drilling mud = 1.3079 bbls.

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Remarks No gas in pipe.

Below straddle was 2,765 psi at end of DST.

Time Set Packer(s) 9:36 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 12:36 ~~P.M.~~ ^{A.M.} Maximum Temperature 120°

Initial Hydrostatic Pressure (A) 2640 P.S.I.

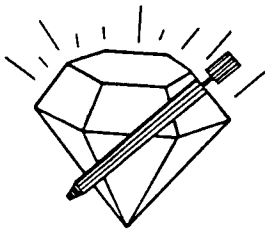
Initial Flow Period Minutes 45 (B) 35 P.S.I. to (C) 55 P.S.I.

Initial Closed In Period Minutes 45 (D) 90 P.S.I.

Final Flow Period Minutes 45 (E) 61 P.S.I. to (F) 67 P.S.I.

Final Closed In Period Minutes 45 (G) 98 P.S.I.

Final Hydrostatic Pressure (H) 2618 P.S.I.



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

ORIGINAL

FLUID SAMPLE DATA

Company Landmark Energy Exploration, Inc.

Lease & Well No. Friesen No. 1-17

Date 1-10-99 Sec. 17 Twp. 32 S Range 27 W

Formation Test No. 3 Interval Tested From 5,482 ft. to 5,600 ft. Total Depth 5,720 ft.

Formation Atoka

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>53</u> CP	<u>56</u> CP
Weight	<u>9.2</u>	<u>9.2</u>
Water Loss	<u>8.0</u> CC	<u>10.0</u> CC
PH Factor	<u>10.5</u>	<u>11.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>1.40</u> @ <u>68</u> °F. <u>4,500</u> ppm	
Recovery Mud Filtrate	<u>1.70</u> @ <u>66</u> °F. <u>4,000</u> ppm	
Mud Pit Sample	<u>1.30</u> @ <u>74</u> °F. <u>5,000</u> ppm	
Mud Pit Sample Filtrate	<u>1.40</u> @ <u>70</u> °F. <u>4,200</u> ppm	

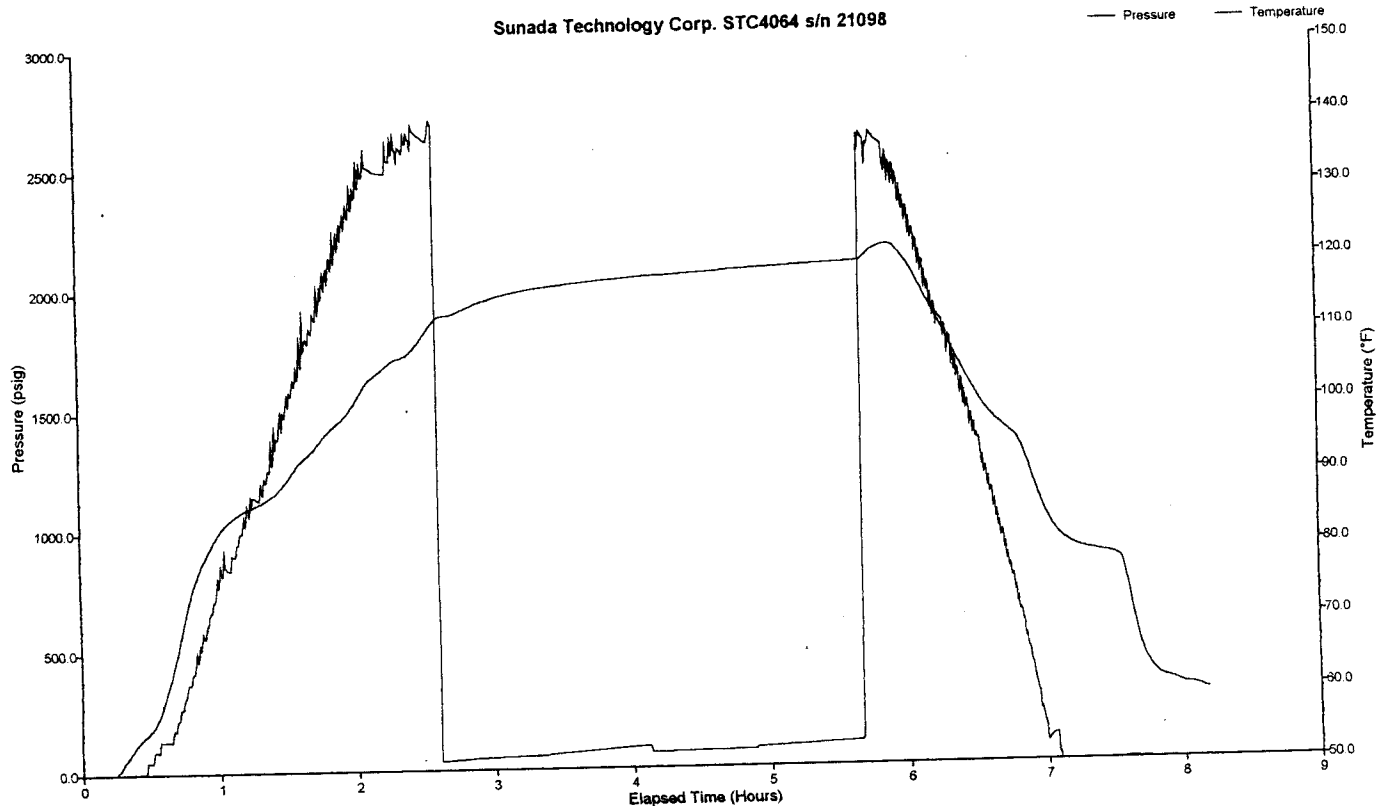
Sample Taken By ROGER D. FRIEDLY

Witness By Craig Caulk

Remarks Pit filtrate triton dish chlorides were 2,500 Ppm.
Recovery filtrate triton dish chlorides were 2,500 Ppm.

Well LSD: DST #3
 Well Name: FRIESEN 1-7 DST 3
 Company: LANDMARK ENERGY
 Battery on: Jan 10, 1999 at 19:00:00
 Notes: RECOVERED 110' DRILLING MUD. BELOW STRADDLE RECORDER WAS 2,765 P.S.I. AT END OF DST. DST OK.

ORIGINAL



POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2640	2640
(B) First Initial Flow Pressure.....	35	35
(C) First Final Flow Pressure	55	55
(D) Initial Closed-in Pressure	90	90
(E) Second Initial Flow Pressure	61	61
(F) Second Final Flow Pressure.....	67	67
(G) Final Closed-in Pressure.....	98	98
(H) Final Hydrostatic Mud	2618	2618