



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

Page 1 of 2 Pages

Company Casino Petroleum Company Lease & Well No. Brungardt No. 1
Elevation 1910 KB Formation Altamont Effective Pay -- Ft. Ticket No. J1299
Date 10-13-02 Sec. 25 Twp. 17S Range 31W County Scott State Kansas
Test Approved By Todd E. Morgenstern Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 4,359 ft. to 4,390 ft. Total Depth 4,390 ft.

Packer Depth 4,354 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,359 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,362 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,387 ft. Recorder Number 13556 Cap. 5,475 psi

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi

Drilling Contractor Murfin Drlg. Co., Inc. - Rig 8 Drill Collar Length 240 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 51 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 4,099 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 31 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: Weak, 1/2 in., blow decreasing to 1/4 in. by end.

2nd Open: No blow.

Recovered 5 ft. of oil specked mud = .024600 bbls.

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 3:10 ~~P.M.~~ A.M. Time Started Off Bottom 5:40 ~~P.M.~~ A.M. Maximum Temperature 116°

Initial Hydrostatic Pressure (A) 2194 P.S.I.

Initial Flow Period Minutes 30 (B) 11 P.S.I. to (C) 13 P.S.I.

Initial Closed In Period Minutes 45 (D) 395 P.S.I.

Final Flow Period Minutes 30 (E) 13 P.S.I. to (F) 14 P.S.I.

Final Closed In Period Minutes 45 (G) 590 P.S.I.

Final Hydrostatic Pressure (H) 2109 P.S.I.



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FLUID SAMPLE DATA

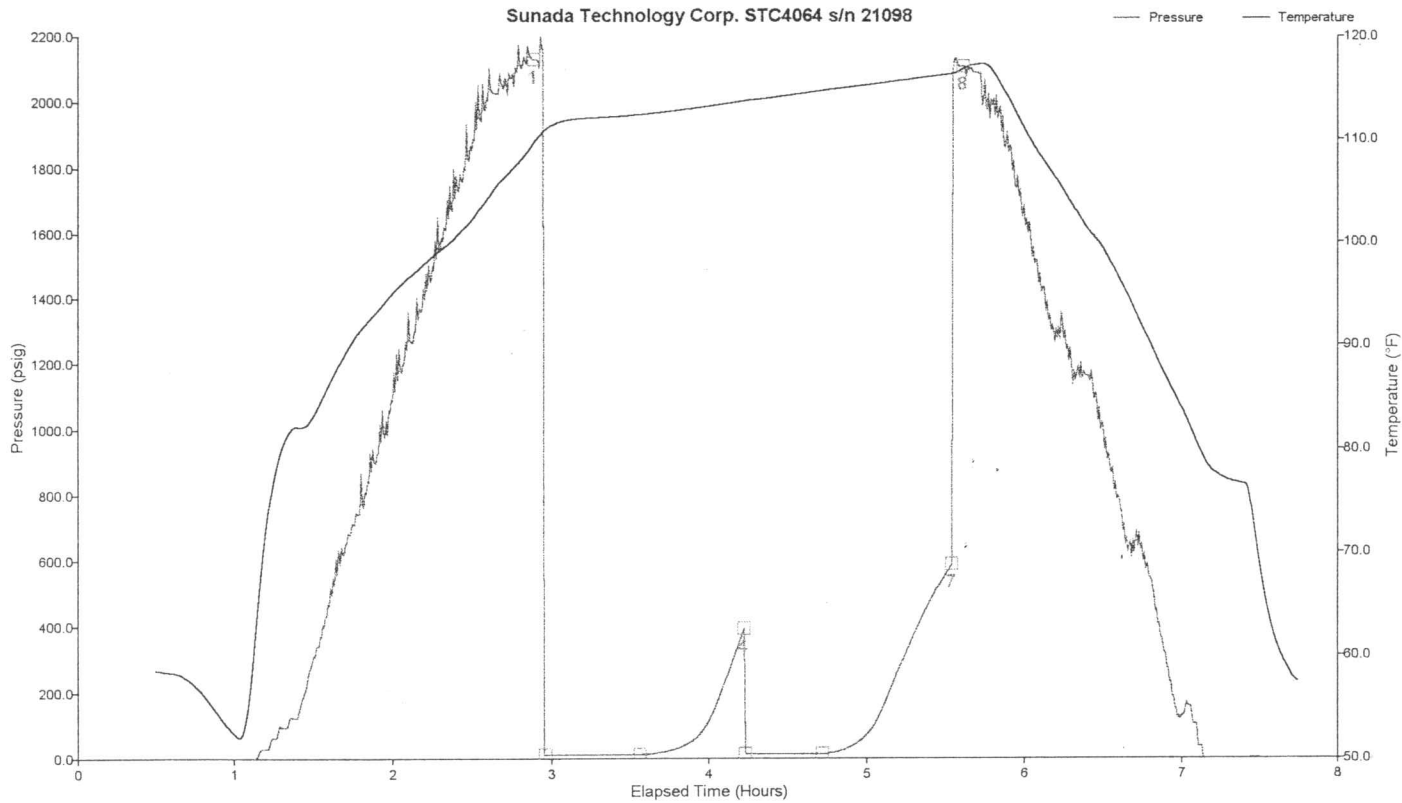
Company Casino Petroleum Company
Lease & Well No. Brungardt No. 1
Date 10-13-02 Sec. 25 Twp. 17 S Range 31 W
Formation Test No. 1 Interval Tested From 4,359 ft. to 4,390 ft. Total Depth 4,390 ft.
Formation Altamont

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>51</u> CP	<u>45</u> CP
Weight	<u>9.4</u>	<u>9.2</u>
Water Loss	<u>8.0</u> CC	<u>8.0</u> CC
PH Factor	<u>9.5</u>	<u>9.0</u>

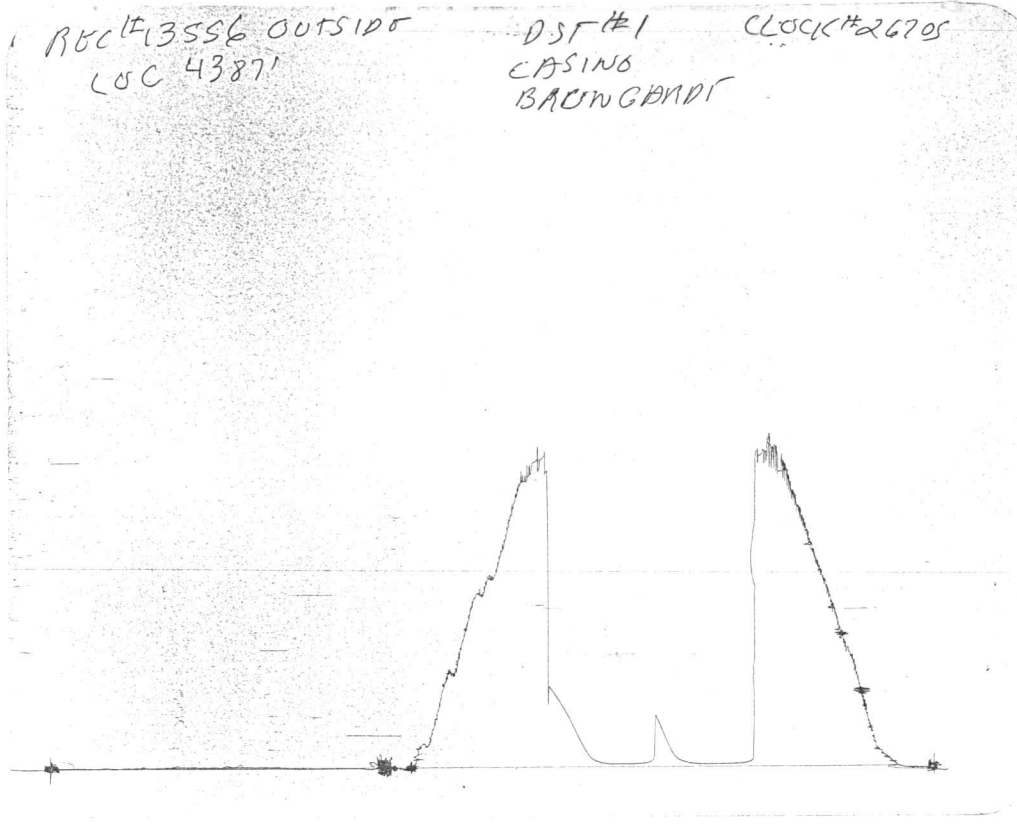
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm.	
Recovery Mud	<u>2.60</u> @ <u>70</u> °F. <u>2,600</u> ppm	
Recovery Mud Filtrate	<u>2.40</u> @ <u>70</u> °F. <u>2,240</u> ppm	
Mud Pit Sample	<u>3.50</u> @ <u>60</u> °F. <u>2,000</u> ppm	
Mud Pit Sample Filtrate	<u>3.40</u> @ <u>60</u> °F. <u>2,100</u> ppm	

Sample Taken By JOHN C. RIEDL
Witness By Todd E. Morgenstern
Remarks Pit filtrate triton dish chlorides were 2,000 Ppm.
Recovery filtrate triton dish chlorides were 3,000 Ppm.

Well LSD: DST 1 ALTAMONT 4359-4390
Well Name: BRUNGARDT 1
Company: CASINO PETROLEUM COMPANY
Battery on: Oct 13, 2002 at 00:12:00
Notes: RECOVERY 5' OIL SPECKED DRILLING MUD



Tag	Pressure	Temperature	Comment
1	2129.73 psig	109.73 °F	2002-10-13 03:05:30
2	11.08 psig	111.03 °F	2002-10-13 03:10:00
3	12.82 psig	112.43 °F	2002-10-13 03:46:00
4	395.14 psig	113.77 °F	2002-10-13 04:25:30
5	13.07 psig	113.79 °F	2002-10-13 04:26:00
6	14.34 psig	114.74 °F	2002-10-13 04:55:30
7	590.06 psig	116.40 °F	2002-10-13 05:44:30
8	2108.68 psig	116.92 °F	2002-10-13 05:49:00



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	2194	2130
(B) First Initial Flow Pressure	11	11
(C) First Final Flow Pressure	13	13
(D) Initial Closed-in Pressure	395	395
(E) Second Initial Flow Pressure	13	13
(F) Second Final Flow Pressure	14	14
(G) Final Closed-in Pressure	590	590
(H) Final Hydrostatic Mud	2109	2109



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Company Casino Petroleum Company Lease & Well No. Brungardt No. 1
Elevation 1910 KB Formation Pawnee/Ft. Scott Effective Pay -- Ft. Ticket No. J1300
Date 10-13-02 Sec. 25 Twp. 17S Range 31W County Scott State Kansas
Test Approved By Todd E. Morgenstern Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 4,410 ft. to 4,496 ft. Total Depth 4,496 ft.

Packer Depth 4,405 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,410 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,413 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,493 ft. Recorder Number 13556 Cap. 5,475 psi

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi

Drilling Contractor Murfin Drlg. Co., Inc. - Rig 8 Drill Collar Length 240 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 54 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 8.0 cc. Drill Pipe Length 4,150 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 86 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: Weak, 1/2 in., blow throughout.

2nd Open: Weak, 1/2 in., blow decreasing to a surface blow by end.

Recovered 70 ft. of slightly oil & gas cut mud = .344400 bbls. (Grind Out: 4%-oil; 5%-gas; 91%-mud)

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 9:10 ~~XXX~~ P.M. Time Started Off Bottom 12:10 ~~XXX~~ A.M. Maximum Temperature 120°

Initial Hydrostatic Pressure 2208 P.S.I. (A)

Initial Flow Period 45 Minutes (B) 46 P.S.I. to (C) 67 P.S.I.

Initial Closed In Period 45 Minutes (D) 971 P.S.I.

Final Flow Period 45 Minutes (E) 72 P.S.I. to (F) 86 P.S.I.

Final Closed In Period 45 Minutes (G) 819 P.S.I.

Final Hydrostatic Pressure 2187 P.S.I. (H)



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FLUID SAMPLE DATA

Company Casino Petroleum Company

Lease & Well No. Brungardt No. 1

Date 10-13-02 Sec. 25 Twp. 17 S Range 31 W

Formation Test No. 2 Interval Tested From 4,410 ft. to 4,496 ft. Total Depth 4,496 ft.

Formation Pawnee/Ft. Scott

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>54</u> CP	<u>50</u> CP
Weight	<u>9.3</u>	<u>9.1</u>
Water Loss	<u>8.0</u> CC	<u>8.0</u> CC
PH Factor	<u>9.5</u>	<u>9.5</u>

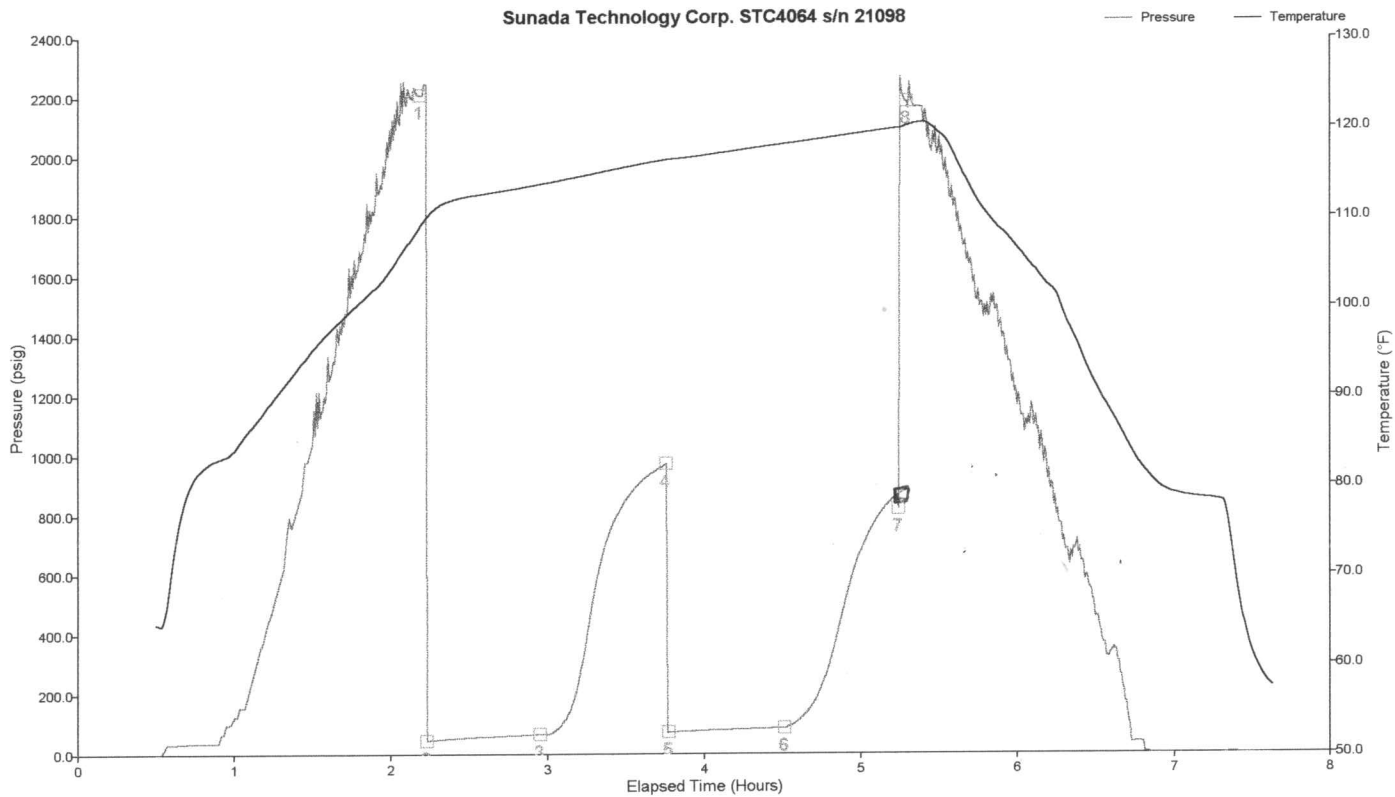
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>3.10</u> @ <u>70</u> °F. <u>1,800</u> ppm	
Recovery Mud Filtrate	<u>3.00</u> @ <u>70</u> °F. <u>2,000</u> ppm	
Mud Pit Sample	<u>3.00</u> @ <u>70</u> °F. <u>2,000</u> ppm	
Mud Pit Sample Filtrate	<u>2.90</u> @ <u>70</u> °F. <u>2,200</u> ppm	

Sample Taken By JOHN C. RIEDL

Witness By Todd E. Morgenstern

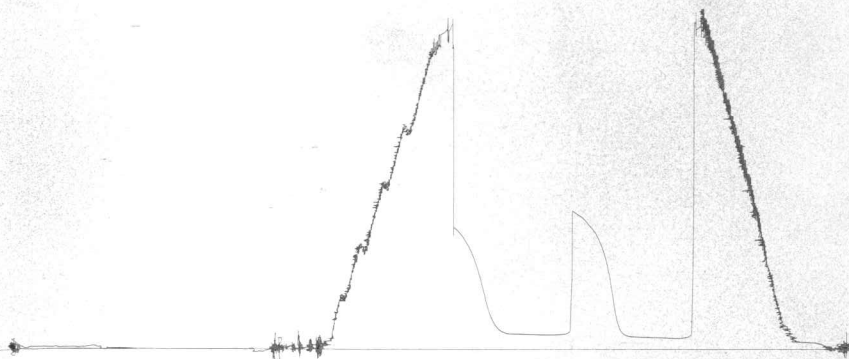
Remarks Pit filtrate triton dish chlorides were 2,000 Ppm
Recovery filtrate triton dish chlorides were 3,000 Ppm

Well LSD: DST 2 FORT SCOTT+PAWNEE
 Well Name: BRUNGARDT 1
 Company: CASINO PETROLEUM COMPANY
 Battery on: Oct 13, 2002 at 18:50:00
 Notes: REC. 70' SLIGHTLY OIL+GAS CUT DRILLING MUD



Tag	Pressure	Temperature	Comment
1	2207.92 psig	108.94 °F	2002-10-13 21:01:00
2	45.53 psig	110.11 °F	2002-10-13 21:04:00
3	66.67 psig	113.68 °F	2002-10-13 21:47:30
4	971.48 psig	116.41 °F	2002-10-13 22:35:30
5	72.38 psig	116.45 °F	2002-10-13 22:36:30
6	86.13 psig	118.14 °F	2002-10-13 23:21:00
7	819.74 psig	119.90 °F	2002-10-14 00:04:30
8	2187.29 psig	120.18 °F	2002-10-14 00:07:30

RPT #13556 LOC 4493 DS#2 CLOCK #26705
OUTSIDE CASINO



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	2208	2208
(B) First Initial Flow Pressure	46	46
(C) First Final Flow Pressure	67	67
(D) Initial Closed-in Pressure	971	971
(E) Second Initial Flow Pressure	72	72
(F) Second Final Flow Pressure	86	86
(G) Final Closed-in Pressure	819	820
(H) Final Hydrostatic Mud	2187	2187



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Company Casino Petroleum Company Lease & Well No. Brungardt No. 1
Elevation 1910 KB Formation Johnson Effective Pay -- Ft. Ticket No. J1301
Date 10-14-02 Sec. 25 Twp. 17S Range 31W County Scott State Kansas
Test Approved By Todd E. Morgenstern Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 4,507 ft. to 4,575 ft. Total Depth 4,575 ft.

Packer Depth 4,502 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,507 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 4,510 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,572 ft. Recorder Number 13556 Cap. 5,475 psi

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi

Drilling Contractor Murfin Drlg. Co., Inc. - Rig 8 Drill Collar Length 240 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 51 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.4 Water Loss 7.0 cc. Drill Pipe Length 4,247 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 68 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: Weak blow. Dead in 15 mins.

2nd Open: No blow.

Recovered 15 ft. of oil cut drilling mud = .073800 bbls. (Grind out: 5%-oil; 95%-mud)

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Recovered -- ft. of --

Remarks --

Time Set Packer(s) 2:35 ~~XXX~~ P.M. Time Started Off Bottom 4:35 ~~XXX~~ P.M. Maximum Temperature 118°

Initial Hydrostatic Pressure (A) 2250 P.S.I.

Initial Flow Period Minutes 30 (B) 28 P.S.I. to (C) 34 P.S.I.

Initial Closed In Period Minutes 30 (D) 563 P.S.I.

Final Flow Period Minutes 30 (E) 34 P.S.I. to (F) 41 P.S.I.

Final Closed In Period Minutes 30 (G) 187 P.S.I.

Final Hydrostatic Pressure (H) 2234 P.S.I.



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FLUID SAMPLE DATA

Company Casino Petroleum Company

Lease & Well No. Brungardt No. 1

Date 10-14-02 Sec. 25 Twp. 17 S Range 31 W

Formation Test No. 3 Interval Tested From 4,507 ft. to 4,575 ft. Total Depth 4,575 ft.

Formation Johnson

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>51</u> CP	<u>48</u> CP
Weight	<u>9.4</u>	<u>9.2</u>
Water Loss	<u>7.0</u> CC	<u>8.0</u> CC
PH Factor	<u>10.0</u>	<u>9.5</u>

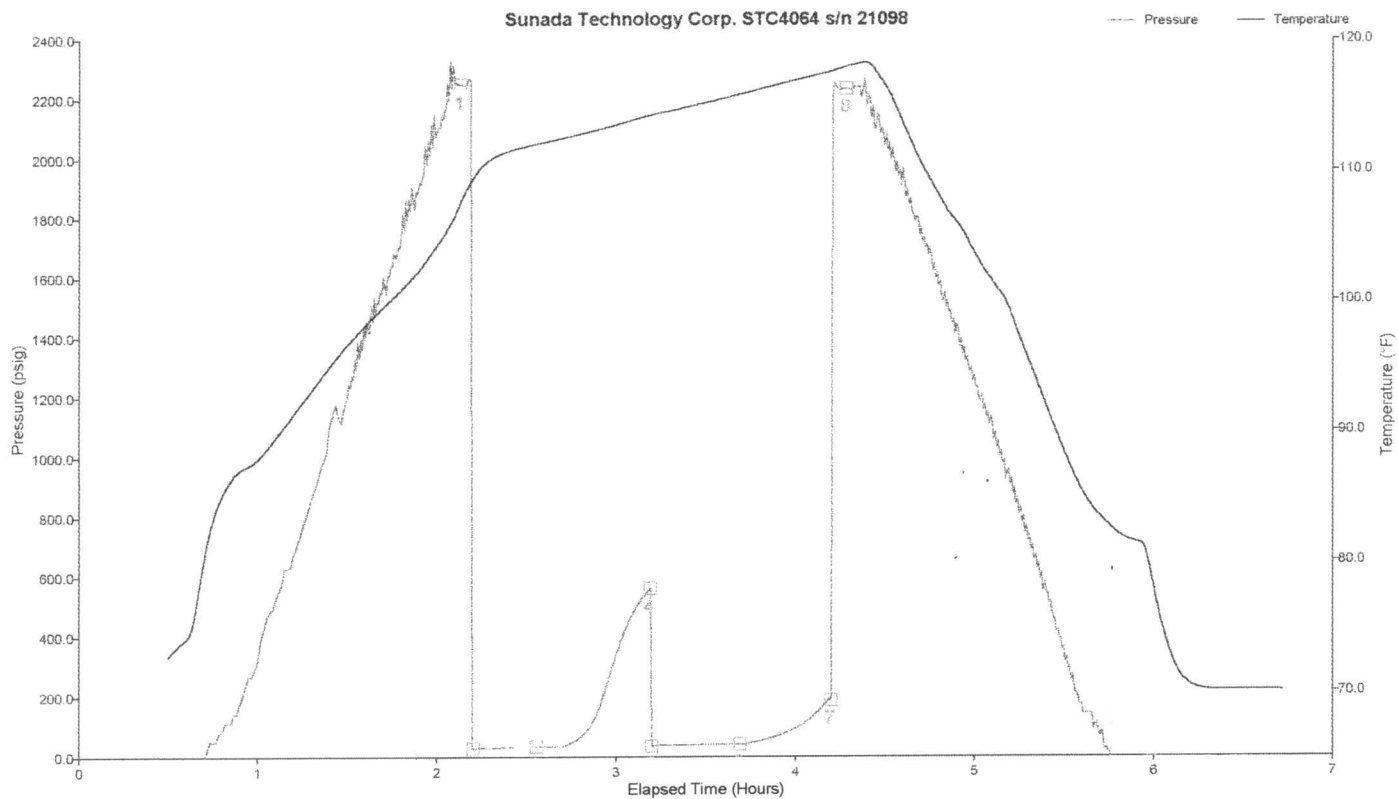
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>3.00</u> @ <u>70</u> °F. <u>2,000</u> ppm	
Recovery Mud Filtrate	<u>3.00</u> @ <u>70</u> °F. <u>2,000</u> ppm	
Mud Pit Sample	<u>3.10</u> @ <u>70</u> °F. <u>2,000</u> ppm	
Mud Pit Sample Filtrate	<u>3.00</u> @ <u>70</u> °F. <u>2,200</u> ppm	

Sample Taken By JOHN C. RIEDL

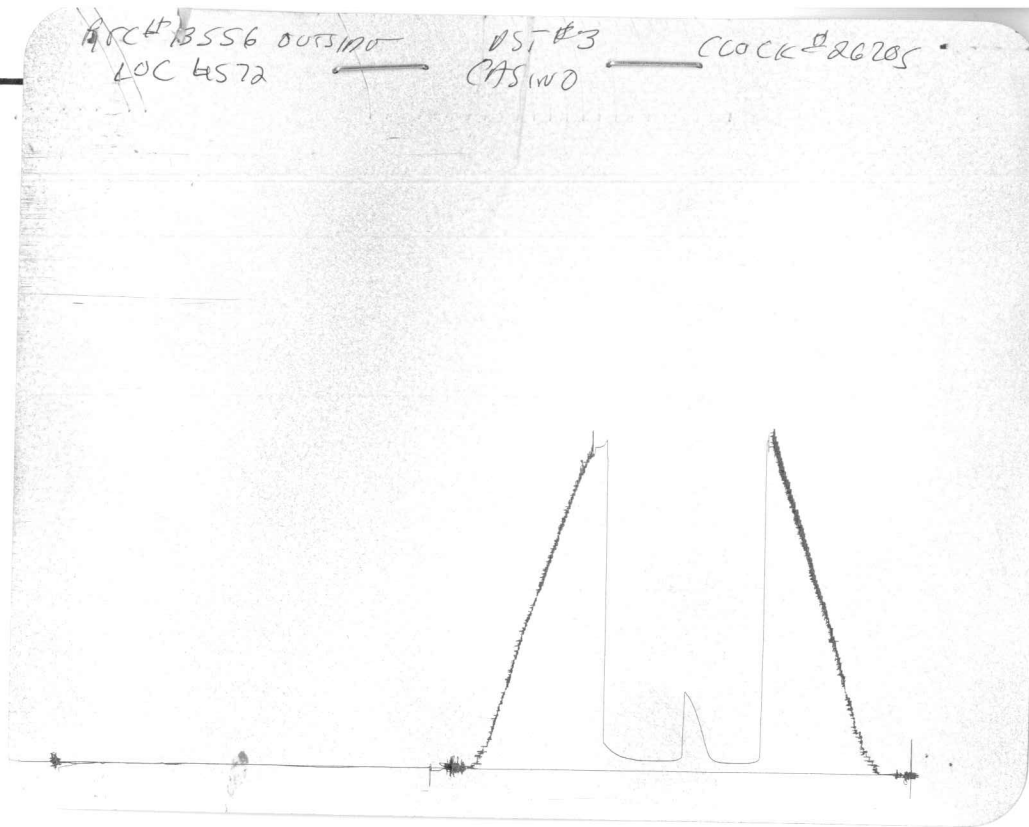
Witness By Todd E. Morgenstern

Remarks Pit filtrate triton dish chlorides were 2,000 Ppm
Recovery filtrate triton dish chlorides were 3,000 Ppm

Well LSD: DST 3 JOHNSON ZONE 4507-4575
 Well Name: BRUNGARDT 1
 Company: CASINO PETROLEUM COMPANY
 Battery on: Oct 14, 2002 at 12:22:00
 Notes: RECOVERY 15' OIL CUT MUD



Tag	Pressure	Temperature	Comment
1	2249.67 psig	107.52 °F	2002-10-14 14:30:00
2	28.25 psig	109.50 °F	2002-10-14 14:34:30
3	33.83 psig	112.02 °F	2002-10-14 14:55:30
4	563.11 psig	114.22 °F	2002-10-14 15:33:30
5	34.41 psig	114.26 °F	2002-10-14 15:34:00
6	41.34 psig	115.81 °F	2002-10-14 16:03:30
7	187.29 psig	117.54 °F	2002-10-14 16:34:00
8	2234.26 psig	117.91 °F	2002-10-14 16:39:00



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	2250	2250
(B) First Initial Flow Pressure	28	28
(C) First Final Flow Pressure	34	34
(D) Initial Closed-in Pressure	563	563
(E) Second Initial Flow Pressure	34	34
(F) Second Final Flow Pressure	41	41
(G) Final Closed-in Pressure	187	187
(H) Final Hydrostatic Mud	2234	2234

15-171-20571-2