

COPY

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 31798

Name: XANADU EXPLORATION COMPANY

Address 6 East 5th St. Ste. 200

City/State/Zip Tulsa, Ok. 74103

Purchaser: na

Operator Contact Person: Larry Sweet

Phone (918) 584-3802

Contractor: Name: L. D. DRILLING, INC.

License: 6039

Wellsite Geologist: Dan Fredlund

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBTB  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

1-09-96 1-16-96

Spud Date 1-09-96 Date Reached TD 1-16-96 Completion Date \_\_\_\_\_

API NO. 15- 155-213740000

County RENO

Appr. SE - SE - NW sec. 33 Twp. 22S Rge. 10 X W

2240' Feet from S (circle one) Line of Section

2310' Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Lease Name BOWEN Well # 1-33

Field Name W/C

Producing Formation na

Elevation: Ground 1767' KB 1772'

Total Depth 3787' PBTB \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 210 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan D&A 5-9-96  
(Data must be collected from the Reserve Pit) Lu

Chloride content 2-2-96 9800 ppm Fluid volume 900 bbls

Dewatering method used Evaporation/Settling

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name BOB'S OIL SERVICE

Lease Name TEICHMANN SWD License No. 30610

SW NE, Quarter Sec. 16 Twp. 22 Rng. 12 E W

County STAFFORD Docket No. D-23, 722

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

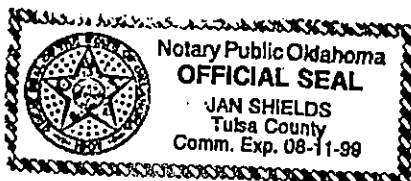
Signature \_\_\_\_\_

Title President Date 1/31/96

Subscribed and sworn to before me this 31 day of January, 1996.

Notary Public Jan Shields

Date Commission Expires \_\_\_\_\_ MY COMMISSION EXPIRES AUGUST 11, 1999



K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)

RECEIVED  
KCC DISTRICT #2

OCT. 8 1996

WICHITA, KS

Operator Name Xanadu Exploration Company

Lease Name BOWEN

Well # 1-33

Sec. 33 Twp. 22S Rge. 10

East  
 West

County RENO

**COPY**

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy.)

List All E.Logs Run:

Dual Induction Laterolog  
Compensated Density/Dual Spaced Neutron Log  
Fracture Finder Micro-Seismogram Log

Log Formation (Top), Depth and Datum  Sample  
Name Top Datum

See attached Geologist's Report prepared by Dan Fredlund for formation tops, depth and datums

See attached Formation Test Reports (3) for Individual DST information

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12 1/4"	8 5/8"	28#	210'	50/50 poz	150	2% Gel, 3% cc

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

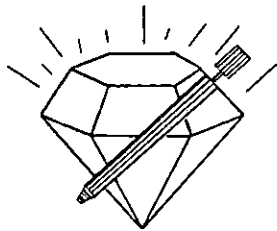
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls. Gas-Oil Ratio Gravity

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-1B.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_



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

15-155-21374  
**ORIGINAL**

Company Xanadu Exploration Company Lease & Well No. Bowen No. 1-33  
Elevation 1773 KB Formation Viola Effective Pay      Ft. Ticket No. 1185  
Date 1-14-96 Sec. 33 Twp. 22S Range 10W County Reno State Kansas

Test Approved By Daniel F. Fredlund Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,570 ft. to 3,605 ft. Total Depth 3,605 ft.  
Packer Depth 3,565 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.  
Packer Depth 3,570 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Depth of Selective Zone Set     

Top Recorder Depth (Inside) 3,558 ft. Recorder Number 13386 Cap. 3,875 psi  
Bottom Recorder Depth (Outside) 3,602 ft. Recorder Number 13556 Cap. 4,400 psi  
Below Straddle Recorder Depth      ft. Recorder Number      Cap.     

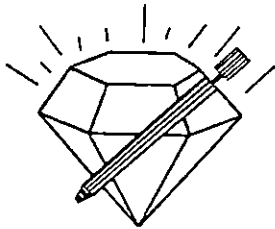
Drilling Contractor L. D. Drilling, Inc. Drill Collar Length      I.D.      in.  
Mud Type Chemical Viscosity 51 Weight Pipe Length      I.D.      in.  
Weight 9.6 Water Loss 12.0 cc. Drill Pipe Length 3,545 ft. I.D. 3 1/2 in.  
Chlorides 7,500 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Jars: Make Bowen Serial Number Not Run Anchor Length 35 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, surface, blow. Died in 13 mins.  
2nd Open: No blow

Recovered 15 ft. of drilling mud with some oil specks in tool and a faint gas odor = .1539 bbls.  
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of       
Recovered      ft. of     

Remarks     

Time Set Packer(s) 10:38 ~~XXXX~~ <sup>A.M.</sup> Time Started Off Bottom 1:38 ~~XXXX~~ <sup>P.M.</sup> Maximum Temperature 108°  
Initial Hydrostatic Pressure      (A) 1824 P.S.I.  
Initial Flow Period      Minutes 30 (B) 47 P.S.I. to (C) 36 P.S.I.  
Initial Closed In Period      Minutes 60 (D) 67 P.S.I.  
Final Flow Period      Minutes 30 (E) 47 P.S.I. to (F) 36 P.S.I.  
Final Closed In Period      Minutes 60 (G) 47 P.S.I.  
Final Hydrostatic Pressure      (H) 1802 P.S.I.



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

Page 2 of 2 Pages

**FLUID SAMPLE DATA**

Company Xanadu Exploration Company

Lease & Well No. Bowen No. 1-33

Date 1-14-96 Sec. 33 Twp. 22 S Range 10 W

Formation Test No. 1 Interval Tested From 3,570 ft. to 3,605 ft. Total Depth 3,605 ft.

Formation Viola

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>51</u> CP	<u>53</u> CP
Weight	<u>9.6</u>	<u>9.5</u>
Water Loss	<u>12.0</u> CC	<u>13.0</u> CC
PH Factor	<u>10.0</u>	<u>10.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>-- @ -- °F.</u>	<u>-- ppm</u>
Recovery Mud	<u>.64 @ 68 °F.</u>	<u>10,000 ppm</u>
Recovery Mud Filtrate	<u>.60 @ 70 °F.</u>	<u>10,000 ppm</u>
Mud Pit Sample	<u>.60 @ 62 °F.</u>	<u>11,000 ppm</u>
Mud Pit Sample Filtrate	<u>.64 @ 64 °F.</u>	<u>10,500 ppm</u>

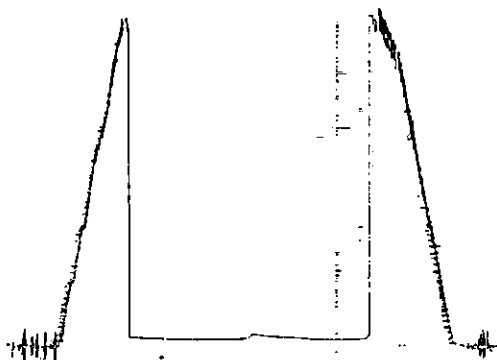
Sample Taken By Roger D. Friedly

Witness By Daniel F. Fredlund

Remarks Pit filtrate triton dish chlorides were 7,500 Ppm.  
Recovery filtrate triton dish chlorides were 8,500 Ppm.

DST # 1 Outside 13552  
 Close to PG Viola

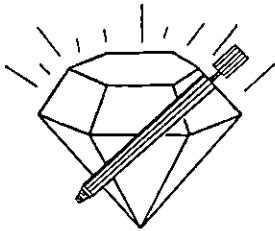
5570-5805  
 LOK 3602



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	1824	1814	PSI
(B) First Initial Flow Pressure.....	47	50	PSI
(C) First Final Flow Pressure .....	36	38	PSI
(D) Initial Closed-in Pressure .....	67	67	PSI
(E) Second Initial Flow Pressure .....	47	50	PSI
(F) Second Final Flow Pressure.....	36	38	PSI
(G) Final Closed-in Pressure.....	47	50	PSI
(H) Final Hydrostatic Mud.....	1802	1799	PSI

13-103-21011



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

**ORIGINAL**

Company Xanadu Exploration Company Lease & Well No. Bowen No. 1-33  
Elevation 1773 KB Formation Viola Effective Pay -- Ft. Ticket No. 1187  
Date 1-16-96 Sec. 33 Twp. 22S Range 10W County Reno State Kansas  
Test Approved By Daniel F. Fredlund Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 3,570 ft. to 3,630 ft. Total Depth 3,787 ft.  
Packer Depth 3,565 ft. Size 6 3/4 in. Packer Depth         ft. Size         in.  
Packer Depth 3,570 ft. Size 6 3/4 in. Packer Depth         ft. Size         in.  
Depth of Selective Zone Set 3,630 ft.

Top Recorder Depth (Inside) 3,558 ft. Recorder Number 13498 Cap. 3,900 psi  
Bottom Recorder Depth (Outside) 3,623 ft. Recorder Number 13556 Cap. 4,400 psi  
Below Straddle Recorder Depth 3,784 ft. Recorder Number 13886 Cap. 3,875 psi

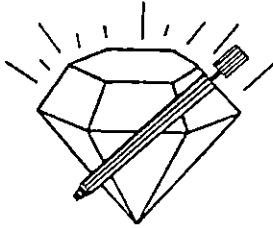
Drilling Contractor L. D. Drilling, Inc. Drill Collar Length -- I.D. -- in.  
Mud Type Chemical Viscosity 49 Weight Pipe Length -- I.D. -- in.  
Weight 9.65 Water Loss 12.6 cc. Drill Pipe Length 3,545 ft. I.D. 3 1/2 in.  
Chlorides 10,500 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Jars: Make Bowen Serial Number Not Run Anchor Length 60' perf. w/157' tail pipe 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 1 1/4 ins. Decreasing after 23 mins to 1 in. at end.  
2nd Open: No blow.

Recovered 15 ft. of drilling mud = .1539 bbls.  
Recovered          ft. of           
Recovered          ft. of           
Recovered          ft. of           
Recovered          ft. of         

Remarks Below straddle recorder was 1,389 psi at end.

Time Set Packer(s) <u>7:05</u>	<del>P.M.</del> <u>A.M.</u>	Time Started Off Bottom <u>10:05</u>	<del>P.M.</del> <u>A.M.</u>	Maximum Temperature <u>105°</u>
Initial Hydrostatic Pressure	(A)	<u>1813</u>	P.S.I.	
Initial Flow Period	Minutes <u>30</u>	(B)	<u>56</u>	P.S.I. to (C) <u>56</u> P.S.I.
Initial Closed In Period	Minutes <u>60</u>	(D)	<u>332</u>	P.S.I.
Final Flow Period	Minutes <u>30</u>	(E)	<u>34</u>	P.S.I. to (F) <u>45</u> P.S.I.
Final Closed In Period	Minutes <u>60</u>	(G)	<u>363</u>	P.S.I.
Final Hydrostatic Pressure	(H)	<u>1813</u>	P.S.I.	



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

**FLUID SAMPLE DATA**

Company Xanadu Exploration Company

Lease & Well No. Bowen No. 1-33

Date 1-16-96 Sec. 33 Twp. 22 S Range 10 W

Formation Test No. 3 Interval Tested From 3,570 ft. to 3,630 ft. Total Depth 3,787 ft.

Formation Viola

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>49</u> CP	<u>60</u> CP
Weight	<u>9.65</u>	<u>9.65</u>
Water Loss	<u>12.6</u> CC	<u>15.0</u> CC
PH Factor	<u>8.5</u>	<u>8.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>.64</u> @ <u>56</u> °F.	<u>12,000</u> ppm
Recovery Mud Filtrate	<u>.58</u> @ <u>64</u> °F.	<u>12,000</u> ppm
Mud Pit Sample	<u>.74</u> @ <u>50</u> °F.	<u>12,500</u> ppm
Mud Pit Sample Filtrate	<u>.68</u> @ <u>52</u> °F.	<u>12,500</u> ppm

Sample Taken By Roger D. Friedly

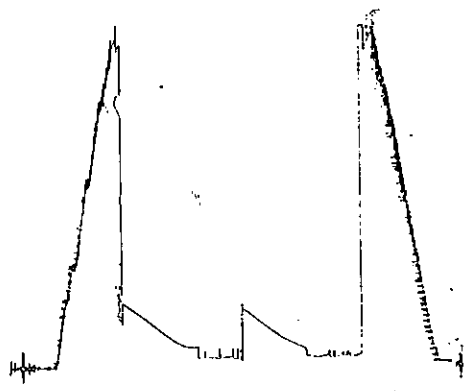
Witness By Daniel F. Fredlund

Remarks Pit filtrate triton dish chlorides were 10,500 Ppm.  
Recovery filtrate triton dish chlorides were 10,500 Ppm.

10-155-412/7

Det to Riverside 1300/16  
Clock 4913

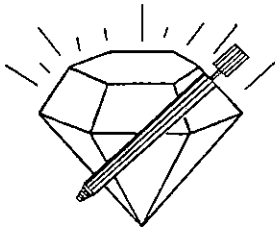
3570-3620-75 6787  
60 3623



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	1813	1808	PSI
(B) First Initial Flow Pressure.....	56	60	PSI
(C) First Final Flow Pressure .....	56	56	PSI
(D) Initial Closed-in Pressure .....	332	334	PSI
(E) Second Initial Flow Pressure .....	34	38	PSI
(F) Second Final Flow Pressure.....	45	46	PSI
(G) Final Closed-in Pressure.....	363	365	PSI
(H) Final Hydrostatic Mud.....	1813	1814	PSI





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P. O. Box 157  
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(316) 653-7550

ORIGINAL

Company Xanadu Exploration Company Lease & Well No. Bowen No. 1-33

Elevation 1773 KB Formation Simpson Effective Pay -- Ft. Ticket No. 1186

Date 1-15-96 Sec. 33 Twp. 22S Range 10W County Reno State Kansas

Test Approved By Daniel F. Fredlund Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 3,640 ft. to 3,650 ft. Total Depth 3,670 ft.

Packer Depth 3,635 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3,640 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set 3,650 ft.

Top Recorder Depth (Inside) 3,628 ft. Recorder Number 13498 Cap. 3,900 psi

Bottom Recorder Depth (Outside) 3,643 ft. Recorder Number 13556 Cap. 4,400 psi

Below Straddle Recorder Depth 3,667 ft. Recorder Number 13386 Cap. 3,875 psi

Drilling Contractor L. D. Drilling, Inc. Drill Collar Length -- I.D. -- in.

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

Weight 9.6 Water Loss 13.0 cc. Drill Pipe Length 3,615 ft. I.D. 3 1/2 in.

Chlorides 8,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 -IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 10' perf. w/20' tail pipe 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 after 12 mins. Dead in 19 mins.

2nd Open: No blow.

Recovered 10 ft. of slightly oil specked drilling mud with good free oil in tool and good gassy odor = .1026 bbls.

Recovered ft. of (Grind out: 1% oil; 99% mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Below straddle recorder was 1,573 psi at end.

Time Set Packer(s) 3:05 ~~XXXX~~ A.M. Time Started Off Bottom 6:05 ~~XXXX~~ A.M. Maximum Temperature 106°

Initial Hydrostatic Pressure ..... (A) 1868 P.S.I.

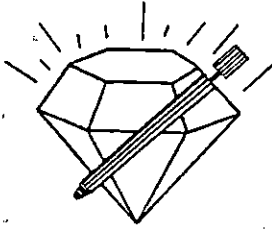
Initial Flow Period ..... Minutes 30 (B) 20 P.S.I. to (C) 20 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1080 P.S.I.

Final Flow Period ..... Minutes 30 (E) 34 P.S.I. to (F) 22 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 983 P.S.I.

Final Hydrostatic Pressure ..... (H) 1868 P.S.I.



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**FLUID SAMPLE DATA**

Company Xanadu Exploration Company

Lease & Well No. Bowen No. 1-33

Date 1-15-96 Sec. 33 Twp. 22 S Range 10 W

Formation Test No. 2 Interval Tested From 3,640 ft. to 3,650 ft. Total Depth 3,670 ft.

Formation Simpson

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>51</u> CP	<u>39</u> CP
Weight	<u>9.6</u>	<u>9.2</u>
Water Loss	<u>13.0</u> CC	<u>18.4</u> CC
PH Factor	<u>10.0</u>	<u>8.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>-- @ -- °F.</u>	<u>-- ppm</u>
Recovery Mud	<u>.66 @ 58 °F.</u>	<u>10,500 ppm</u>
Recovery Mud Filtrate	<u>.65 @ 60 °F.</u>	<u>10,500 ppm</u>
Mud Pit Sample	<u>.60 @ 60 °F.</u>	<u>12,000 ppm</u>
Mud Pit Sample Filtrate	<u>.64 @ 62 °F.</u>	<u>10,500 ppm</u>

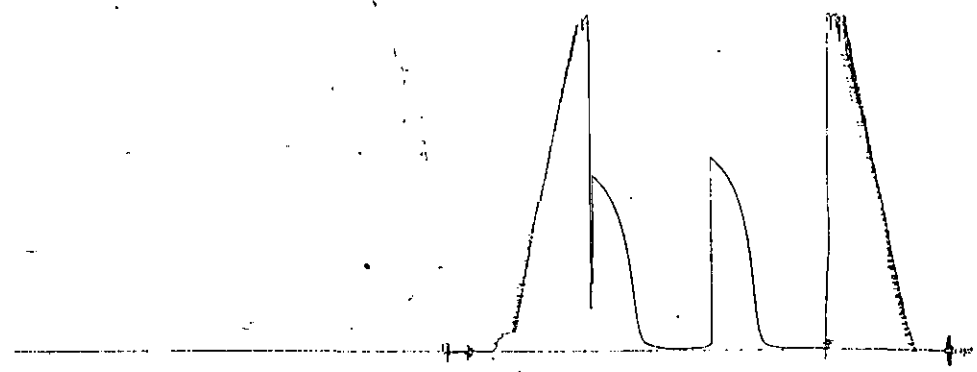
Sample Taken By Roger D. Friedly

Witness By Daniel F. Fredlund

Remarks Pit filtrate triton dish chlorides were 8,000 Ppm.  
Recovery filtrate triton dish chlorides were 9,500 Ppm.

DST #2 outside 13556  
Clock 6913 Simpson

3640-3658 TO 3670  
LOL 364B



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	1868	1866	PSI
(B) First Initial Flow Pressure.....	20	21	PSI
(C) First Final Flow Pressure .....	20	20	PSI
(D) Initial Closed-in Pressure .....	1080	1082	PSI
(E) Second Initial Flow Pressure .....	34	36	PSI
(F) Second Final Flow Pressure.....	22	22	PSI
(G) Final Closed-in Pressure.....	983	981	PSI
(H) Final Hydrostatic Mud.....	1868	1866	PSI

13-125-41217