



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(20) 653-7550 • (800) 542-7313

KCC

DEC 12 2002

CONFIDENTIAL

ORIGINAL

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CONFIDENTIAL

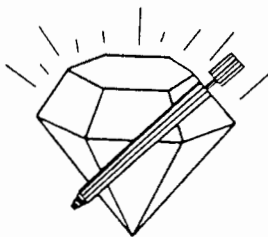
Company Knighton Oil Company, Inc. Lease & Well No. Rosproy No. 1
Elevation 2188 KB Formation Mississippi Effective Pay 20 Ft. Ticket No. 1659
Date 9-12-02 Sec. 30 Twp. 25S Range 18W County Edwards State Kansas
Test Approved By David D. Montague Diamond Representative Roger D. Friedly
Formation Test No. 1 Interval Tested from 4,607 ft. to 4,646 ft. Total Depth 4,646 ft.
Packer Depth 4,602 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 4,607 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set ft.
Top Recorder Depth (Inside) 4,595 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 4,643 ft. Recorder Number 13387 Cap. 4,000 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi
Drilling Contractor Duke Drlg Co., Inc. - Rig 4 Drill Collar Length -- ft. I.D. -- in.
Mud Type Chemical Viscosity 52 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.4 Water Loss 10.0 cc. Drill Pipe Length 4,382 ft. I.D. 3 1/2 in.
Chlorides 4,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 39 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 immediately. Gas to surface in 5 mins. No blow back during shut-in.
(SEE GAS VOLUME REPORT)
2nd Open: Strong blow. Off bottom of bucket immediately. No blow back during shut-in.
Recovered 65 ft. of drilling mud = .481000 bbls.
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks FROM CONFIDENTIAL

RELEASED

JAN 04 2005

FROM CONFIDENTIAL

Time Set Packer(s) 8:04 A.M. Time Started Off Bottom 12:04 P.M. Maximum Temperature 131°
Initial Hydrostatic Pressure (A) 2269 P.S.I.
Initial Flow Period Minutes 30 (B) 45 P.S.I. to (C) 48 P.S.I.
Initial Closed In Period Minutes 60 (D) 1479 P.S.I.
Final Flow Period Minutes 60 (E) 58 P.S.I. to (F) 64 P.S.I.
Final Closed In Period Minutes 90 (G) 1447 P.S.I.
Final Hydrostatic Pressure (H) 2251 P.S.I.



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FLUID SAMPLE DATA

Company Knighton Oil Company, Inc.

Lease & Well No. Rosproy No. 1

Date 9-12-02 Sec. 30 Twp. 25 S Range 18 W

Formation Test No. 1 Interval Tested From 4,607 ft. to 4,646 ft. Total Depth 4,646 ft.

Formation Mississippi

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>52</u> CP	<u>55</u> CP
Weight	<u>9.4</u>	<u>9.4</u>
Water Loss	<u>10.0</u> CC	<u>8.8</u> CC
PH Factor	<u>10.5</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>.82</u> @ <u>84</u> °F. <u>6,400</u> ppm	
Recovery Mud Filtrate	<u>.90</u> @ <u>86</u> °F. <u>5,200</u> ppm	
Mud Pit Sample	<u>1.00</u> @ <u>74</u> °F. <u>6,000</u> ppm	
Mud Pit Sample Filtrate	<u>1.10</u> @ <u>76</u> °F. <u>5,000</u> ppm	

Sample Taken By ROGER D. FRIEDLY

Witness By David D. Montague

Remarks Pit filtrate triton dish chlorides were 4,000 Ppm.
Recovery filtrate triton dish chlorides were 4,400 Ppm.



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GAS VOLUME REPORT

Company Knighton Oil Company, Inc. Lease & Well No. Rosproy No. 1
Date 9-12-02 Sec. 30 Twp. 25 S Rge. 18 W Location S/2 N/2 SE NE County Edwards State KS
Drilling Contractor Duke Drlg Co., Inc. - Rig 4 Formation Mississippi DST No. 1
Remarks: 1st Open: Gas to surface in 5 mins. Gas burned nicely.

INITIAL FLOW

Open Tool: 8:04 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
8:14 a.m.	1 in.	1½ psi	169,000
8:19 a.m.	1 in.	2 psi	195,000
8:24 a.m.	1 in.	2 psi	195,000
8:29 a.m.	1 in.	2 psi	195,000
8:34 a.m.	1 in.	2 psi	195,000

FINAL FLOW

Open Tool: 9:34 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
9:39 a.m.	½ in.	21 psi	183,000
9:44 a.m.	½ in.	22 psi	189,000
9:49 a.m.	½ in.	22 psi	189,000
9:54 a.m.	½ in.	21½ psi	186,000
* 9:59 a.m.	½ in.	21½ psi	186,000
10:04 a.m.	½ in.	21 psi	183,000
10:09 a.m.	½ in.	20 psi	177,000
10:14 a.m.	½ in.	20 psi	177,000
10:19 a.m.	½ in.	20 psi	177,000
10:24 a.m.	½ in.	19½ psi	174,000
10:29 a.m.	½ in.	19½ psi	174,000
10:34 a.m.	½ in.	19 psi	171,000

* Sample taken.

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HOISINGTON, KS 67544

KNIGHTON OIL CO INC
ROSPROY 1
DST NO. 1

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T E S T P A R A M E T E R S

DRILLPIPE CAPACITY	0.0142 BBL/FT	HOLE SIZE	7.875 IN
DRILLPIPE LENGTH	4582 FT	PAY THICKNESS	20 FT
WEIGHTPIPE CAPACITY	0.0000 BBL/FT	VISCOSITY OF GAS	.033
WEIGHTPIPE LENGTH	0 FT	POROSITY FRACTION	.25
DRILLCOLLAR CAPACITY	0.0000 BBL/FT		
DRILLCOLLAR LENGTH	0 FT		
BOTTOM HOLE TEMP	131 DEF F	GAS COMPRESSIBILITY	1.22
RECORDER NUMBER	21073	1ST FLOW TIME	30 MIN
RECORDER DEPTH	4595	1ST SHUT-IN TIME	60 MIN
ELEVATION	2188 FT (KB)	2ND FLOW TIME	60 MIN
DATUM	-2407	2ND SHUT-IN TIME	90 MIN

C A L C U L A T I O N S

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI)..... 1529.0

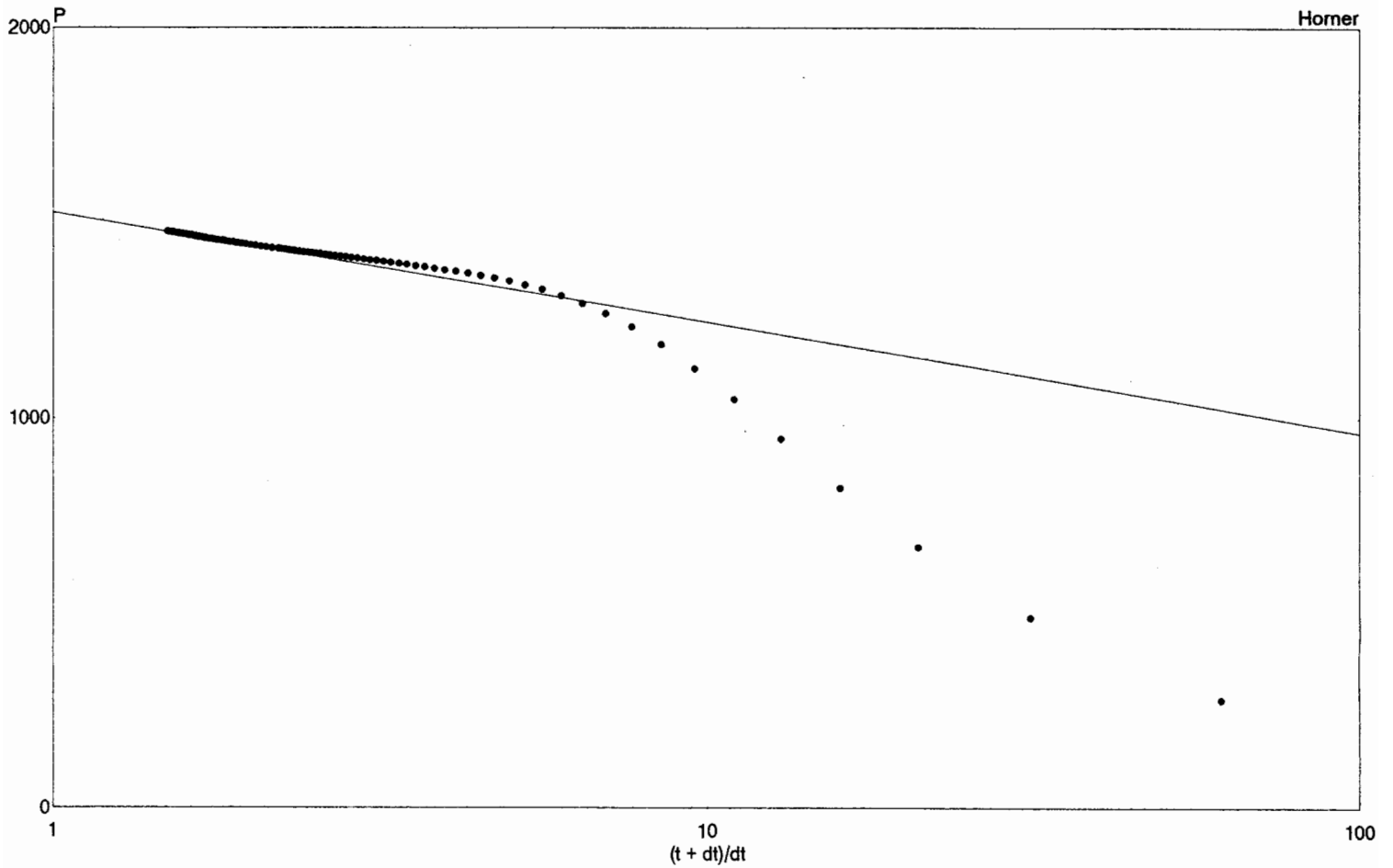
SLOPE (PSI²-CYCLE)..... 2257752

EXTRAPOLATED FINAL SHUT-INPRESSURE (PSI) 1516.0

SLOPE (PSI²-CYCLE) 2014167

STABILIZED PRODUCTION RATE (MCF)	171.0
TRANSMISSIBILITY (MD.-FT./CP.)	591.00
FLOW CAPACITY (MD.FT.)	3.31
PERMIBILITY (MD.)	0.165
DAMAGE RATIO	0.0
PRODUCTION RATE WITH DAMAGE REMOVED (BARRLES/DAY)	0.0
SKIN FACTOR (S)	-4.4
PRESSURE DROP DUE TO SKIN (PSI)	0.0
APPROXIMATE RADIUS OF INVESTIGATION (FT.)	3.9
DRAWDOWN FACTOR (%)	0.000
POTENTIOMETRIC SURFACE (FT.)	0.0

KNIGHTON OIL CO., INC. MISS INITIAL SHUT IN



KNIGHTON OIL CO., INC. MISS INITIAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -282.852

$m(1 \text{ hr}) = 1479.15$

Prd Time: = 0.5 hr

Calculated Values:

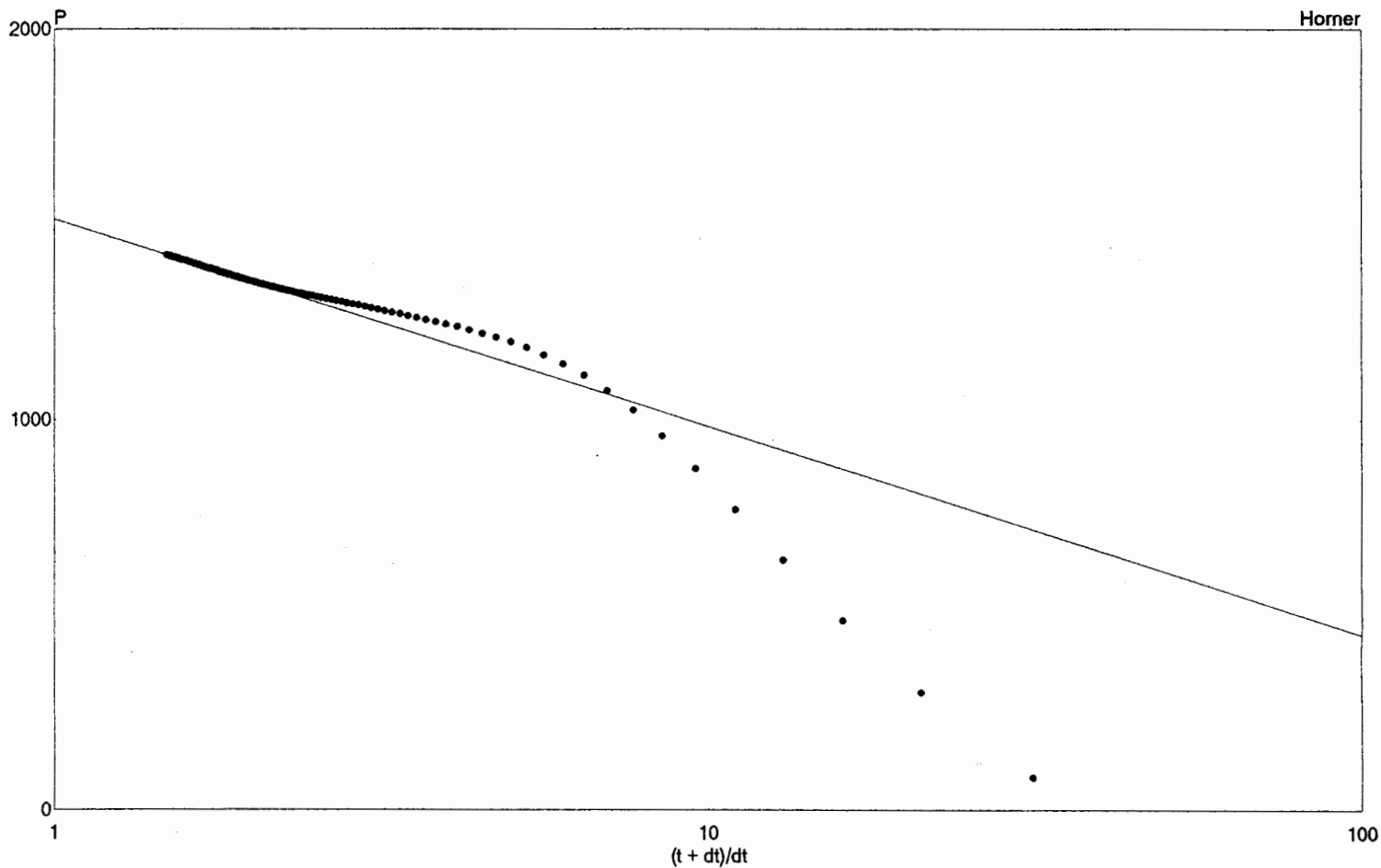
$kh = 3.24328 \text{ md-ft}$

$k = 0.16216 \text{ md}$

Skin = 7.13186

$P^* = 1529 \text{ psi}$

KNIGHTON OIL CO., INC. MISS FINAL SHUT IN



KNIGHTON OIL CO., INC. MISS FINAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -532.72

$m(1 \text{ hr}) = 1422.26$

Prd Time: = 0.5 hr

Calculated Values:

$kh = 1.72205 \text{ md-ft}$

$k = 0.086102 \text{ md}$

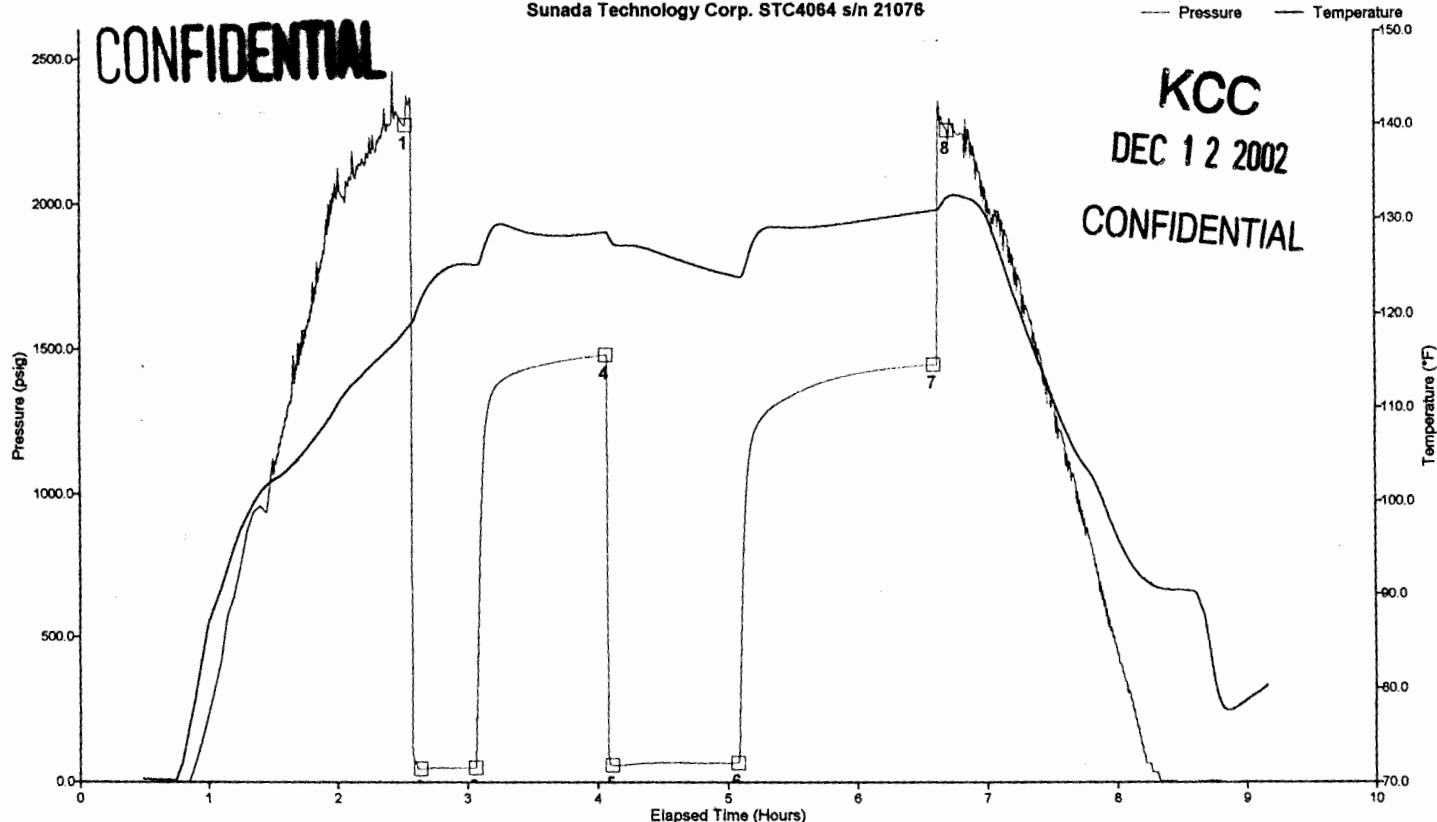
Skin = 4.55755

$P^* = 1516.1 \text{ psi}$

Well LSD: DST #1 MISS 4607'-4646'
 Well Name: ROSPROY 1
 Company: KNIGHTON OIL CO INC
 Battery on: Sep 12, 2002 at 05:30:00
 Notes: RECOVERED 65' DRILLING MUD.

ORIGINAL

Sunada Technology Corp. STC4084 s/n 21076



RELEASED

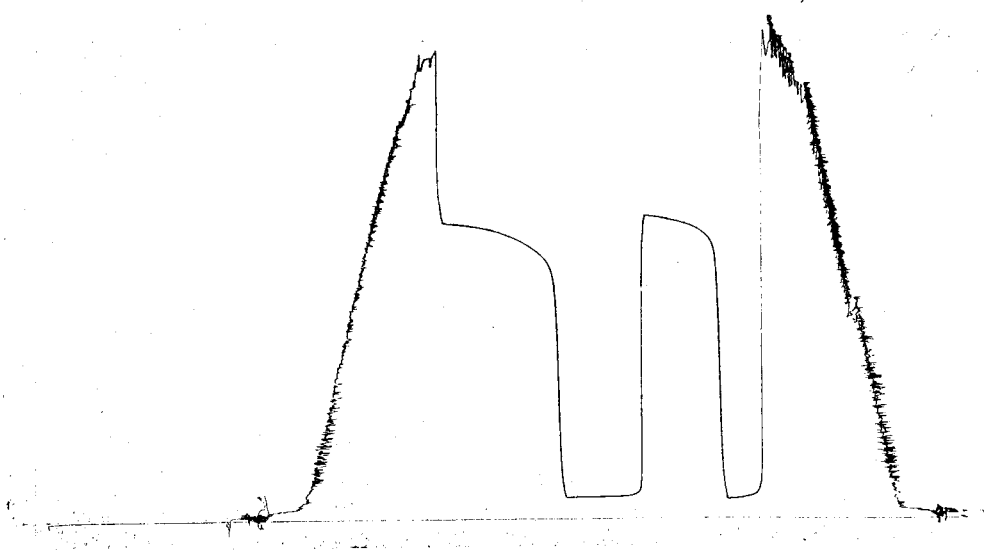
JAN 04 2005

FROM CONFIDENTIAL

	Tag	Pressure	Temperature	Comment
1	2269.16	psig	118.16 °F	2002-09-12 08:01:30
2	44.62	psig	121.25 °F	2002-09-12 08:08:30
3	47.92	psig	125.05 °F	2002-09-12 08:34:00
4	1479.39	psig	128.52 °F	2002-09-12 09:34:00
5	57.51	psig	127.49 °F	2002-09-12 09:37:00
6	64.18	psig	123.79 °F	2002-09-12 10:35:00
7	1446.52	psig	130.81 °F	2002-09-12 12:05:30
8	2251.46	psig	132.21 °F	2002-09-12 12:12:00

DST #1 OUTSIDE 13387
Clock 13392 MISS

4067-4646
LOC 4643



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	2269	2269
(B) First Initial Flow Pressure.....	45	45
(C) First Final Flow Pressure	48	48
(D) Initial Closed-in Pressure	1479	1479
(E) Second Initial Flow Pressure	58	58
(F) Second Final Flow Pressure.....	64	64
(G) Final Closed-in Pressure.....	1447	1447
(H) Final Hydrostatic Mud	2251	2251

PSI
PSI
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