

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACD-1 WELL HISTORY

API NO. 15- 129-215530000

County Morton plugged 3/21/98
RECEIVED
GAS CORP. NE Sec. 29 Twp. 33S Rge. 42 X V

Operator: License # 9953998 MAY -4 1:10

660 Feet from S (circle one) Line of Section
1980 Feet from E (circle one) Line of Section

Name: Harris Oil and Gas Company

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

Address 1125 17th Street
Suite 2290

Lease Name Rich Brown Well # 1-29

City/State/Zip Denver, CO 80202

Field Name Unnamed

Purchaser: NA

Producing Formation NA

Operator Contact Person: Doug Hoisington

Elevation: Ground 3543' KB 3553'

Phone (303) 293-8838

Total Depth 5150' PBDT 5150'

Contractor: Name: Allen Drilling Company

Amount of Surface Pipe Set and Cemented at 1358 Feet

License: 5418

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: Daniel R. Sommer

If yes, show depth set NA Feet

Designate Type of Completion
X New Well Re-Entry Workover

If Alternate II completion, cement circulated from NA

Oil SWD SIOW Temp. Abd.
Gas ENHR SIW
X Dry Other (Core, WSV, Expl., Cathodic, etc)

feet depth to v/ sx cat.

If Workover/Re-Entry: old well info as follows: NA

Drilling Fluid Management Plan D&A 7-10-98 UR
(Data must be collected from the Reserve Pt.)

Operator: NA

Chloride content ppm Fluid volume bbls

Well Name: NA

Deviating method used Air evaporation

Comp. Date FROM CONFIDENTIAL Old Total Depth CONFIDENTIAL

Location of fluid disposal if hauled offsite: NA

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

Operator Name NA

Lease Name NA License No. NA

3-9-98 3-21-98 3-21-98

Quarter Sec. 29 Twp. 33S Rng. 42 E/W

Spud Date Date Reached TD Completion Date

County Morton Docket No. NA

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 [Signature]

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> NGPA
<input type="checkbox"/>		<input type="checkbox"/> Other
(Specify)		

Title Operations Manager Date 4-15-98

Subscribed and sworn to before me this 30 day of April 19 98

Notary Public [Signature]

Date Commission Expires March 31, 2001

ORIGINAL

SIDE TWO

ORIGINAL

Operator Name Harris Oil and Gas Co.

Lease Name Rich Brown

Well # 1-29

Sec. 29 Twp. 33S Rge. 42

East

County Morton

West

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: DIS
MLS
CNS/PDS

Log Formation (Top), Depth and Datum Sample

Name Top Datum

See attached

CASING RECORD

New 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"	36	1358'	Poz / Cla	485	6% Gel 3% CaCl 1/4# Floccul

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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 checked="" type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
<u>D+A</u>	

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	<u>NA</u>				

Disposition of Gas:
 Vented Sold Used on Lease
(If vented, submit ACO-18.)

METHOD OF COMPLETION
 Open Hole Perf. Dually Comp. Commingled
 Other (Specify) Dry and Abandoned

Production Interval

RELEASED

MAY 18 1998

FROM CONFIDENTIAL

ALLIED CEMENTING CO., INC.

P.O. BOX 91
RUSSELL, MO 67365
PH (785) 433-3057
FAX (785) 433-3500

* INVOICE *

Invoice Number: 077262

Invoice Date: 03/24/98

KCC

APR 30

CONFIDENTIAL

Sold Harris Oil & Gas Company
To: P. O. Box 976
Liberal, KS
67905

Cust. I.D.....: Harris
P.O. Number...: Brown #1-29
P.O. Date.....: 03/24/98

Due Date.: 04/23/98
Terms.....: Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	150.00	SKS	7.5500	1132.50	E
Gel	3.00	SKS	9.5000	28.50	E
Chloride	15.00	SKS	28.0000	420.00	E
ALW	335.00	SKS	7.0500	2361.75	E
FloSesl	84.00	LBS	1.1500	96.60	E
Handling	485.00	SKS	1.2000	582.00	E
Mileage (55)	55.00	MILE	19.4000	1067.00	E
485 sks @\$.04 per sk per mi					
Surface	1.00	JOB	560.0000	560.00	E
Extra Footage	1060.00	PER	0.5000	530.00	E
Mileage pmp trk	55.00	MILE	2.8500	156.75	E
Rubber plug	1.00	EACH	105.0000	105.00	E
Reg. guide shoe	1.00	EACH	315.0000	315.00	E
AFU Insert	1.00	EACH	398.0000	398.00	E
Centralizers	2.00	EACH	63.0000	126.00	E
Thread Lock	1.00	EACH	30.0000	30.00	E

All Prices Are Net, Payable 30 Days Following Subtotal: 7909.10
Date of Invoice. 1 1/2% Charged Thereafter. Tax.....: 0.00
If Account CURRENT take Discount of \$ 118.36 Payments: 0.00
ONLY if paid within 30 days from Invoice Date Total....: 7909.10

RECEIVED
STAFF CO. COMMISSION

MAY 04 1998

LIBERAL, KANSAS

ALLIED CEMENTING CO., INC

Federal Tax I.D.# 48-0727860

8517
ORIGINAL

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oa. Alex

DATE <i>3/11/98</i>	SEC. <i>29</i>	TWP. <i>33s</i>	RANGE <i>42W</i>	CALLED OUT	ON LOCATION <i>12:01 AM</i>	JOB START <i>4:45 AM</i>	JOB FINISH <i>5:45 AM</i>
LEASE <i>Brown</i>	WELL# <i>1-29</i>	LOCATION <i>Elkhart 11N 1/2 W S15</i>			COUNTY <i>Morton</i>	STATE <i>KS</i>	
OLD OR <u>NEW</u> (Circle one)					RELEASED		

CONTRACTOR *Allen Drig #2*

TYPE OF JOB *Cmt 9 3/4 Surface Csg*

HOLE SIZE *12 1/4* T.D. *1365*

CASING SIZE *9 5/8 36#* DEPTH *1360*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX *1000* MINIMUM *150*

MEAS. LINE SHOE JOINT *44*

CEMENT LEFT IN CSG. *44*

PERFS.

DISPLACEMENT *102*

OWNER *Same*

CEMENT FROM *...*

AMOUNT ORDERED

335 sks 65/35 + 69 gal 39 cc x 1" Flo-seal

150 sks Class A + 29 gal 39 cc

COMMON <i>150 sks</i>	@ <i>7.55</i>	<i>1132.50</i>
POZMIX	@	
GEL <i>3 sks</i>	@ <i>9.50</i>	<i>28.50</i>
CHLORIDE <i>15 sks</i>	@ <i>28.00</i>	<i>420.00</i>
<i>A.L.W. 33.5 sks</i>	@ <i>7.05</i>	<i>2361.75</i>
<i>Flo-seal 84#</i>	@ <i>1.15</i>	<i>96.60</i>
	@	
	@	
	@	
HANDLING <i>485 sks</i>	@ <i>1.20</i>	<i>582.00</i>
MILEAGE <i>485 x .04 x 55</i>		<i>1067.00</i>

EQUIPMENT

PUMP TRUCK CEMENTER *Max*

191 HELPER *Wayne*

BULK TRUCK

303 DRIVER *Jeff*

BULK TRUCK

212 DRIVER *RC*

KCC

TOTAL *5689.35*

APR 30

CONFIDENTIAL SERVICE

REMARKS:

Cmt 9 3/4 surface Csg with 335 sks 65/35 + 69 gal 39 cc x 1" Flo-seal + 150 sks Class A + 29 gal 39 cc Drop Plug Displace 102. Add Land Plug Float Held Cement did circulate

DEPTH OF JOB *1360*

PUMP TRUCK CHARGE *560.00*

EXTRA FOOTAGE *1060 @ .50 = 530.00*

MILEAGE *55 mi @ 2.85 = 156.75*

PLUG *9 5/8 Rubber @ 105.00*

TOTAL *1351.75*

CHARGE TO: *Harris Oil & Gas*

STREET *Box 976*

CITY *Liberal* STATE *Kansas* ZIP *67905*

FLOAT EQUIPMENT

<i>1-9 5/8 Reg Guide Shoe</i>	@	<i>315.00</i>
<i>1-9 5/8 AFU Insert</i>	@	<i>398.00</i>
<i>2-9 5/8 Centralizers</i>	@ <i>63.00</i>	<i>126.00</i>
<i>1-Thread Lock</i>	@	<i>30.00</i>
	@	

TOTAL *869.00*

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE *7909.10*

DISCOUNT *1186.37* IF PAID IN 30 DAYS

SIGNATURE *TJ Diseker*

TJ Diseker

PRINTED NAME

MAY 04 1998

ORIGINAL

RELEASED

MAY 18 1998

FROM CONFIDENTIAL

ALLIED CEMENTING CO., INC.

P.O. BOX 31
RUSSELL, KS 67665
PH (785) 483-3887
FAX (785) 483-5566

* INVOICE *

Invoice Number: 077293

Invoice Date: 03/31/98

Sold Harris Oil & Gas Company
To: P. O. Box 976
Liberal, KS
67905

KCC
APR 30
CONFIDENTIAL

Due Date.: 04/30/98
Terms.....: Net 30

Cust I.D.....: Harris
P.O. Number...: Brown #1-29
P.O. Date.....: 03/31/98

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	150.00	SKS	7.5500	1132.50	E
Pozmix	100.00	SKS	3.2500	325.00	E
Gel	13.00	SKS	9.5000	123.50	E
Handling	250.00	SKS	1.2000	300.00	E
Mileage (55) 250 sks @\$.04 per sk per mi	55.00	MILE	10.0000	550.00	E
Plug	1.00	JOB	685.0000	685.00	E
Mileage pmp trk	55.00	MILE	2.8500	156.75	E

All Prices Are Net, Payable 30 Days Following
Date of Invoice. 1 1/2% Charged Thereafter.
If Account CURRENT take Discount of \$ 490.91
ONLY if paid within 30 days from Invoice Date

Subtotal: 3272.75
Tax.....: 0.00
Payments: 0.00
Total....: 3272.75

PETROLEUM MANAGEMENT SYSTEMS
 ORDER # _____
 DATE _____
 TO: _____
 FROM: _____
 BY: _____
 COMMENTS: Brown 1-29
 Plug well
 H

MAY 04 1998
CONSERVATION DIVISION
Wichita, Kansas

RECEIVED
APR 06 1998
CONFIDENTIAL

120-10-09

ORIGINAL

ALLIED CEMENTING CO., INC.

8648

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

oakley

DATE <u>3-21-98</u>	SEC. <u>29</u>	TWP. <u>33s</u>	RANGE <u>42w</u>	CALLED OUT	ON LOCATION <u>6:30 PM</u>	JOB START <u>7:30 PM</u>	JOB FINISH <u>10:45 PM</u>
LEASE <u>Brown</u>	WELL # <u>1-29</u>	LOCATION <u>Elkhart 11N 1/2 W 5/5</u>		COUNTY <u>Morton</u>	STATE <u>KS</u>	RELEASED	
OLD OR NEW (Circle one)							

CONTRACTOR Allen Drlg #2

TYPE OF JOB PTA

HOLE SIZE 8 3/4 T.D. 5150'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH 2300'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER Same MAY 18 1998

CEMENT FROM _____ TIA: _____
AMOUNT ORDERED 250 sks 64/40 P2
6.20 gal

COMMON	<u>150 sk</u>	@	<u>7.55</u>	<u>1132.50</u>
POZMIX	<u>100 sks</u>	@	<u>3.25</u>	<u>325.00</u>
GEL	<u>13 sks</u>	@	<u>9.50</u>	<u>123.50</u>
CHLORIDE		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>250 sks</u>	@	<u>1.20</u>	<u>300.00</u>
MILEAGE	<u>44 per mile per sk</u>			<u>550.00</u>

TOTAL 2431.00

REMARKS:

SERVICE

1st Plug at 2300' w/ no sk

2nd Plug at 1370' w/ 70 sks

3rd Plug at 400' w/ 40 sks

4th Plug at 40' w/ 15 sks

15 sks in Rat Hole

10 sks in Mouse Hole

Thank you

DEPTH OF JOB	<u>2300'</u>			
PUMP TRUCK CHARGE				<u>685.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>55</u>	@	<u>2.85</u>	<u>156.75</u>
PLUG		@		
		@		
		@		

KOC

TOTAL 841.75

CHARGE TO: Harris Oil & Gas Co.

STREET 1125 17th St, # 2290

CITY Denver STATE Co. ZIP 80202

CONFIDENTIAL FLOAT EQUIPMENT

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX				
TOTAL CHARGE			<u>\$ 3272.75</u>	
DISCOUNT				IF PAID IN 30 DAYS

SIGNATURE Richard Stevenson

MAY 04 1998

PRINTED NAME
CONCRETE DIVISION
Wichita, Kansas

ORIGINAL

15-129-21553

CONFIDENTIAL

RECEIVED
KANSAS COOP CO. INC.
MAY 18 1999

GEOLOGIC REPORT
Reference Well: Harris Oil and Gas Company's Rich Smith #1-20

LOG TOPS	1958 ELEVATION	DATUM	REF
Kansas City "A" f	3512'	+41	-21
Kansas City "B" f	3568'	-15	-20
Kansas City "C" f	3640'	-87	-18
Marmaton	3852'	-299	-9
Cherokee	4088'	-535	-17
Morrow	4395'	-842	-13
Morrow L1 Sand	Absent		
Morrow L2 Sand	4479'	-926	+3
Morrow Structural Marker	4548'	-995	-12
Morrow L3 Sand	4588'	-1035	+8
Morrow "G" Sand	4876'	-1323	-42
Keyes	4900'	-1347	-48
Chester	4956'	-1403	-26
St. Louis f	5132'	-1579	-38

FROM CONFIDENTIAL

KCC

APR 30

CONFIDENTIAL

CONFIDENTIAL

ORIGINAL
15-129-21553

TRILOBITE TESTING, L.L.C.

KANSAS CORP

OPERATOR : Harris Oil & Gas Co.

DATE 3-18-98

WELL NAME: Rich Brown #1-29

1999 MAY - KB 3553.00 ft

TICKET NO: 10212 DST #1

LOCATION : 29-33S-42W

GR 3543.00 ft

FORMATION: Keyes

INTERVAL : 4858.00 To 4881.00 ft

TD 4881.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10242	10242	Alpine			PF Fr. 0240 to 0310 hr
SI 60	Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 0310 to 0410 hr
SF 60	Clock(hrs)	12 HR	12 HR	24 HR			SF Fr. 0410 to 0510 hr
FS 120	Depth(ft)	4878.0	4878.0	4860.0	0.0	0.0	FS Fr. 0510 to 0710 hr

	Field	1	2	3	4
A. Init Hydro	2407.0	2473.0	2378.0	0.0	0.0
B. First Flow	46.0	60.0	43.0	0.0	0.0
B1. Final Flow	70.0	78.0	103.0	0.0	0.0
C. In Shut-in	829.0	848.0	835.0	0.0	0.0
D. Init Flow	119.0	135.0	113.0	0.0	0.0
E. Final Flow	172.0	191.0	207.0	0.0	0.0
F. Fl Shut-in	838.0	856.0	835.0	0.0	0.0
G. Final Hydro	2343.0	2356.0	2360.0	0.0	0.0
Inside/Outside	0	0	I		

T STARTED 2340 hr
T ON BOTM 0237 hr
T OPEN 0240 hr
T PULLED 0710 hr
T OUT 1100 hr

TOOL DATA-----
Tool Wt. 1800.00 lbs
Wt Set On Packer 25000.00 lbs
Wt Pulled Loose 5000.00 lbs
Initial Str Wt 78000.00 lbs
Unseated Str Wt 79000.00 lbs
Bot Choke 0.75 in
Hole Size 8.75 in
D Col. ID 2.25 in
D. Pipe ID 3.80 in
D.C. Length 527.00 ft
D.P. Length 4330.00 ft

RECOVERY

Tot Fluid 415.00 ft of 415.00 ft in DC and 0.00 ft in DP
90.00 ft of Mud 100%Mud
90.00 ft of Heavy Mud cut Water. 42%Mud 58%Water
235.00 ft of Gassy Water. 4%Gas 96%Water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

RELEASED

MAY 18 1999

SALINITY 32000.00 P.P.M. A.P.I. Gravity 6.00

FROM CONFIDENTIAL

BLOW DESCRIPTION

Initial Flow:
Weak 1/2", built to strong Bottom
of bucket in 28 minutes
Initial Shutin:
No blow-back.
Final Flow:
Weak 1/4", built to strong bottom
of bucket in 52 minutes
Final Shutin:
No. blow-back.

KCC
APR 30
CONFIDENTIAL

MUD DATA-----
Mud Type Chem.
Weight 9.10 lb/c
Vis. 48.00 S/L
W.L. 8.80 in3
F.C. 0.00 in
Mud Drop Y 50.0 ft

Amt. of fill 0.00 ft
Btm. H. Temp. 131.00 F
Hole Condition Good
% Porosity 12.00
Packer Size 7.50 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester Lanny Saloga
Co. Rep. Tommy Diseker
Contr. Allen
Rig # 2
Unit #
Pump T.

SAMPLES: None

SENT TO:

Test Successful: Y

ORIGINAL

WELL NAME:
COMPANY:
LOCATION:
DATE:

Rich Brown 1-29
Harris Oil & Gas Co.
29-33S-42W
Morton County, Kansas
3/23/98

15-129-21553

RELEASED

MAY 18 1999

KCC

APR 30

CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

ORIGINAL

TRILOBITE TESTING L.L.C.

OPERATOR : Harris Oil & Gas Co.
WELL NAME: Rich Brown #1-29
LOCATION : 29-33S-42W
INTERVAL : 4858.00 To 4881.00 ft

DATE 3-18-98
KB 3553.00 ft TICKET NO: 10212 DST #1
GR 3543.00 ft FORMATION: Keyes
TD 4881.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10242	10242	Alpine			PF Fr. 0240 to 0310 hr
SI 60 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 0310 to 0410 hr
SF 60 Clock(hrs)	12 HR	12 HR	24 HR			SF Fr. 0410 to 0510 hr
FS 120 Depth(ft)	4878.0	4878.0	4860.0	0.0	0.0	FS Fr. 0510 to 0710 hr

	Field	1	2	3	4	
A. Init Hydro	2407.0	2473.0	2378.0	0.0	0.0	T STARTED 2340 hr
B. First Flow	46.0	60.0	43.0	0.0	0.0	T ON BOTM 0237 hr
Bl. Final Flow	70.0	78.0	103.0	0.0	0.0	T OPEN 0240 hr
C. In Shut-in	829.0	848.0	835.0	0.0	0.0	T PULLED 0710 hr
D. Init Flow	119.0	135.0	113.0	0.0	0.0	T OUT 1100 hr
E. Final Flow	172.0	191.0	207.0	0.0	0.0	
F. Fl Shut-in	838.0	856.0	835.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2343.0	2356.0	2360.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 5000.00 lbs
						Initial Str Wt 78000.00 lbs
						Unseated Str Wt 79000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.75 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 527.00 ft
						D.P. Length 4330.00 ft

RECOVERY

Tot Fluid 415.00 ft of *415.00 ft in DC and 0.00 ft in DP
90.00 ft of Mud 100%Mud
90.00 ft of Heavy Mud cut Water. 42%Mud 58%Water
235.00 ft of Gassy Water. 4%Gas 96%Water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 32000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Weak 1/2", built to strong Bottom
of bucket in 28 minutes
Initial Shutin:
No blow-back.
Final Flow:
Weak 1/4", built to strong bottom
of bucket in 52 minutes
Final Shutin:
No blow-back.

SAMPLES: None
SENT TO:

RELEASED

MAY 18 1999

FROM CONFIDENTIAL

Test Successful: Y

MUD DATA-----

Mud Type	Chem.
Weight	9.10 lb/c
Vis.	48.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	50.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	131.00 F
Hole Condition	Good
% Porosity	12.00
Packer Size	7.50 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Tommy Diseker
Contr.	Allen
Rig #	2
Unit #	
Pump T.	

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Rich Brown #1-29

LOCATION : 29-33S-42W

TICKET No. 10212 D.S.T. No. 1 DATE 3-18-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

TOTAL PACKERS AND ANCHOR 23

TOTAL TOOL 53

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STANDS Single Total

D.P. ANCHOR STANDS Single Total

TOTAL ASSEMBLY 53

D.C. ABOVE TOOLS STANDS 9 Single Total 527

D.P. ABOVE TOOLS STANDS 69 Single 1 Total 4330

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4910

TOTAL DEPTH 4881

TOTAL DRILL PIPE ABOVE K.B. 29

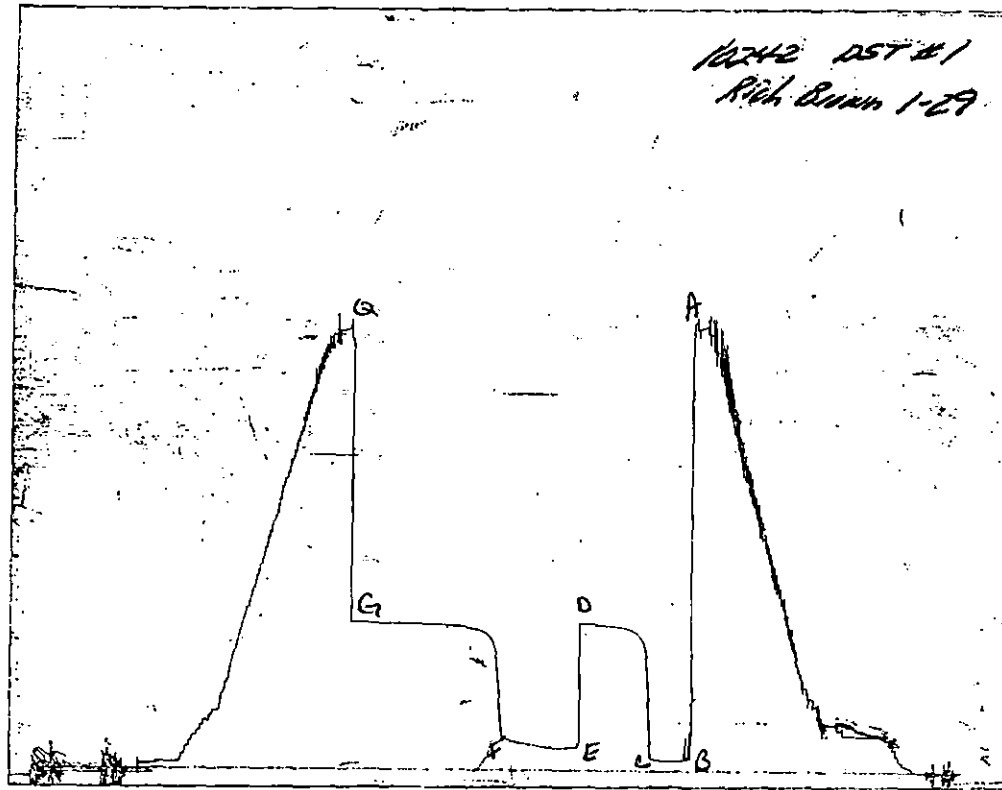
REMARKS:

Fluid Sampler Data

Total Vol. 4000 ML.
 Total Vol. Rec. 4000 ML.
 Oil 0 ML.
 Mud 0 ML.
 Wtr. 4000 ML.
 Gas 4.5 CF.
 Psi. 385
 Bht. 131 F.
 Pit RW. 8.5 Ohms at 50 F. 1,000 PPM.
 Rec RW. 0.36 Ohms at 43 F. 32,000 PPM.
 Gravity --- at -- F.

P.O. SUB Cir. sub	4768
C.O. SUB Top of tool	4828
Double pin	4829
S.I. TOOL H&T	4834
Sampler	4837
HMV Sterling	4842
JARS Bowen	4847
SAFETY JOINT Bowen	4849
PACKER H&T	4854
PACKER H&T	4858
DEPTH	
STUBB Rec. sub	4860
ANCHOR Alpine	4860
T.C.	
DEPTH	
Pu. sub	4865
AK-1	4878
14 ft. perfs	4879
BULLNOSE 2 ft. perf	
T.D.	4881

CHART PAGE



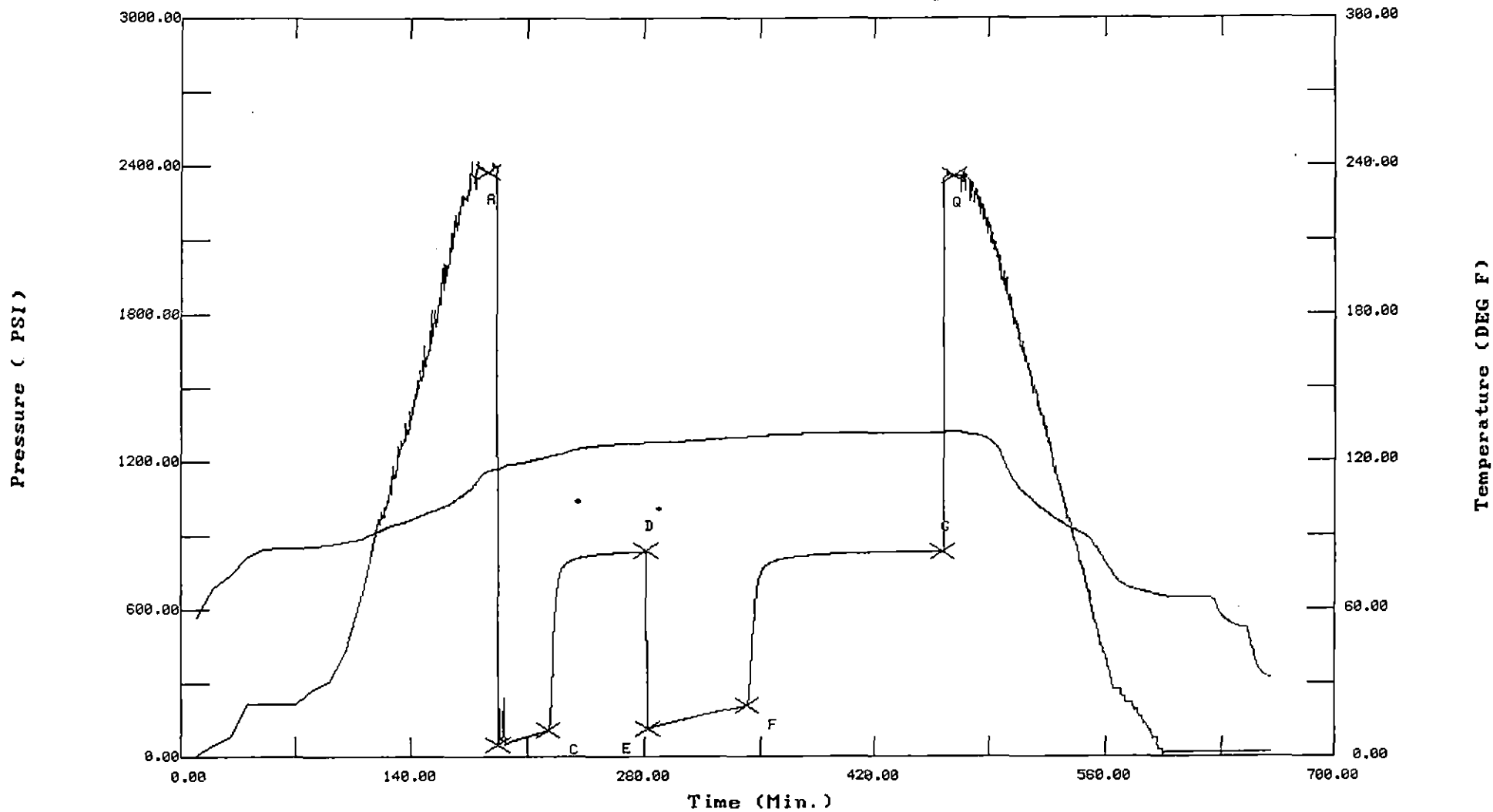
This is a photocopy of the actual AK-1 recorder chart

TEST HISTORY

10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

Flag Points
t(Min.) P(PSI)

A: 0.00 2378.86
B: 0.00 43.26
C: 30.00 103.20
D: 59.00 835.92
E: 0.00 113.31
F: 60.00 207.34
G: 119.50 835.40
Q: 0.00 2360.31



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

DATE: 03/18/98 TIME: 23:28:21

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	186.00	2378.9	0.0	116.13		
***** Start Flow 1	0.00	43.3	0.0	116.94		
	0.50	95.1	51.8	116.98		
	1.00	197.6	154.3	117.04		
	1.50	57.9	14.6	117.09		
	2.00	78.0	34.7	117.24		
	2.50	57.9	14.7	117.44		
	3.00	141.6	98.4	117.65		
	3.50	236.8	193.6	117.88		
	4.00	112.4	69.1	118.07		
	4.50	47.7	4.4	118.25		
	5.00	48.6	5.4	118.40		
	5.50	50.4	7.2	118.53		
	6.00	51.6	8.3	118.64		
	6.50	53.3	10.0	118.68		
	7.00	55.3	12.1	118.75		
	7.50	57.2	13.9	118.81		
	8.00	58.4	15.2	118.85		
	8.50	59.9	16.7	118.90		
	9.00	61.3	18.0	118.93		
	9.50	61.9	18.7	118.95		
	10.00	62.8	19.5	118.96		
	10.50	63.8	20.6	118.98		
	11.00	64.8	21.5	119.01		
	11.50	65.9	22.7	119.03		
	12.00	67.0	23.8	119.06		
	12.50	68.1	24.8	119.10		
	13.00	69.4	26.1	119.15		
	13.50	70.4	27.1	119.20		
	14.00	71.6	28.4	119.28		
	14.50	72.7	29.5	119.33		
	15.00	73.9	30.7	119.40		
	15.50	75.1	31.8	119.45		
	16.00	75.8	32.5	119.53		
	16.50	76.9	33.6	119.61		
	17.00	78.1	34.8	119.69		
	17.50	79.0	35.7	119.79		
	18.00	80.0	36.8	119.87		
	18.50	81.1	37.8	119.97		
	19.00	82.2	38.9	120.05		
	19.50	83.1	39.8	120.14		
	20.00	84.1	40.9	120.23		
	20.50	85.1	41.8	120.32		
	21.00	86.0	42.8	120.41		
	21.50	87.1	43.9	120.50		
	22.00	87.7	44.4	120.59		
	22.50	88.9	45.7	120.68		
	23.00	89.8	46.5	120.76		
	23.50	90.8	47.6	120.84		
	24.00	91.8	48.6	120.93		
	24.50	92.7	49.4	121.00		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

DATE: 03/18/98 TIME: 23:28:21

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	93.7	50.4	121.10		
	25.50	94.9	51.6	121.18		
	26.00	95.6	52.4	121.25		
	26.50	96.7	53.4	121.33		
	27.00	97.7	54.5	121.41		
	27.50	98.7	55.4	121.48		
	28.00	99.7	56.4	121.56		
	28.50	100.7	57.4	121.65		
	29.00	101.5	58.3	121.73		
	29.50	102.3	59.0	121.81		
***** End Flow 1	30.00	103.2	59.9	121.88		
***** Start Shutin 1	0.00	103.2	0.0	121.88	0.0000	0.011
	0.50	116.8	13.6	121.97	61.0000	0.014
	1.00	142.9	39.7	122.04	31.0000	0.020
	1.50	177.3	74.1	122.12	21.0000	0.031
	2.00	224.0	120.8	122.19	16.0000	0.050
	2.50	287.7	184.5	122.28	13.0000	0.083
	3.00	371.3	268.1	122.35	11.0000	0.138
	3.50	467.4	364.2	122.44	9.5714	0.218
	4.00	556.9	453.7	122.51	8.5000	0.310
	4.50	625.3	522.1	122.59	7.6667	0.391
	5.00	671.9	568.7	122.67	7.0000	0.451
	5.50	702.9	599.7	122.76	6.4545	0.494
	6.00	724.0	620.8	122.84	6.0000	0.524
	6.50	739.0	635.8	122.91	5.6154	0.546
	7.00	750.0	646.8	122.99	5.2857	0.562
	7.50	758.5	655.3	123.05	5.0000	0.575
	8.00	765.3	662.1	123.13	4.7500	0.586
	8.50	770.8	667.6	123.21	4.5294	0.594
	9.00	775.5	672.3	123.30	4.3333	0.601
	9.50	779.5	676.3	123.39	4.1579	0.608
	10.00	782.9	679.7	123.49	4.0000	0.613
	10.50	785.9	682.7	123.59	3.8571	0.618
	11.00	788.6	685.4	123.70	3.7273	0.622
	11.50	791.0	687.8	123.81	3.6087	0.626
	12.00	793.2	690.0	123.92	3.5000	0.629
	12.50	795.2	692.0	124.03	3.4000	0.632
	13.00	797.0	693.8	124.14	3.3077	0.635
	13.50	798.7	695.5	124.23	3.2222	0.638
	14.00	800.2	697.0	124.34	3.1429	0.640
	14.50	801.7	698.5	124.43	3.0690	0.643
	15.00	803.1	699.9	124.53	3.0000	0.645
	15.50	804.4	701.2	124.61	2.9355	0.647
	16.00	805.6	702.4	124.72	2.8750	0.649
	16.50	806.7	703.5	124.80	2.8182	0.651
	17.00	807.8	704.6	124.89	2.7647	0.653
	17.50	808.8	705.6	125.00	2.7143	0.654
	18.00	809.8	706.6	125.01	2.6667	0.656
	18.50	810.6	707.4	125.11	2.6216	0.657
	19.00	811.5	708.3	125.17	2.5789	0.659
	19.50	812.4	709.2	125.25	2.5385	0.660

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

DATE: 03/18/98 TIME: 23:28:21

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
20.00	813.2	710.0	125.32	2.5000	0.661
20.50	814.0	710.8	125.38	2.4634	0.663
21.00	814.7	711.5	125.45	2.4286	0.664
21.50	815.3	712.1	125.51	2.3953	0.665
22.00	816.0	712.8	125.56	2.3636	0.666
22.50	816.7	713.5	125.61	2.3333	0.667
23.00	817.3	714.1	125.67	2.3043	0.668
23.50	817.9	714.7	125.71	2.2766	0.669
24.00	818.5	715.3	125.76	2.2500	0.670
24.50	819.1	715.9	125.80	2.2245	0.671
25.00	819.6	716.4	125.86	2.2000	0.672
25.50	820.1	716.9	125.89	2.1765	0.673
26.00	820.6	717.4	125.94	2.1538	0.673
26.50	821.1	717.9	125.98	2.1321	0.674
27.00	821.6	718.4	126.02	2.1111	0.675
27.50	822.0	718.8	126.04	2.0909	0.676
28.00	822.5	719.3	126.09	2.0714	0.676
28.50	822.9	719.7	126.12	2.0526	0.677
29.00	823.3	720.1	126.17	2.0345	0.678
29.50	823.7	720.5	126.20	2.0169	0.678
30.00	824.1	720.9	126.24	2.0000	0.679
30.50	824.4	721.2	126.27	1.9836	0.680
31.00	824.8	721.6	126.31	1.9677	0.680
31.50	825.2	722.0	126.33	1.9524	0.681
32.00	825.5	722.3	126.37	1.9375	0.681
32.50	825.9	722.7	126.39	1.9231	0.682
33.00	826.2	723.0	126.42	1.9091	0.683
33.50	826.5	723.3	126.45	1.8955	0.683
34.00	826.8	723.6	126.48	1.8824	0.684
34.50	827.1	723.9	126.52	1.8696	0.684
35.00	827.4	724.2	126.54	1.8571	0.685
35.50	827.6	724.4	126.56	1.8451	0.685
36.00	827.9	724.7	126.59	1.8333	0.685
36.50	828.2	725.0	126.63	1.8219	0.686
37.00	828.5	725.3	126.66	1.8108	0.686
37.50	828.7	725.5	126.68	1.8000	0.687
38.00	828.9	725.7	126.71	1.7895	0.687
38.50	829.2	726.0	126.74	1.7792	0.688
39.00	829.4	726.2	126.76	1.7692	0.688
39.50	829.7	726.5	126.79	1.7595	0.688
40.00	829.9	726.7	126.82	1.7500	0.689
40.50	830.1	726.9	126.84	1.7407	0.689
41.00	830.4	727.2	126.86	1.7317	0.690
41.50	830.6	727.4	126.88	1.7229	0.690
42.00	830.8	727.6	126.90	1.7143	0.690
42.50	831.0	727.8	126.94	1.7059	0.691
43.00	831.2	728.0	126.95	1.6977	0.691
43.50	831.4	728.2	126.96	1.6897	0.691
44.00	831.6	728.4	126.99	1.6818	0.692
44.50	831.8	728.6	127.00	1.6742	0.692
45.00	831.9	728.7	127.02	1.6667	0.692

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

DATE: 03/18/98 TIME: 23:28:21

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
45.50	832.1	728.9	127.04	1.6593	0.692
46.00	832.3	729.1	127.06	1.6522	0.693
46.50	832.5	729.3	127.07	1.6452	0.693
47.00	832.7	729.5	127.10	1.6383	0.693
47.50	832.8	729.6	127.12	1.6316	0.694
48.00	833.0	729.8	127.13	1.6250	0.694
48.50	833.1	729.9	127.14	1.6186	0.694
49.00	833.3	730.1	127.16	1.6122	0.694
49.50	833.5	730.3	127.19	1.6061	0.695
50.00	833.6	730.4	127.20	1.6000	0.695
50.50	833.7	730.5	127.21	1.5941	0.695
51.00	833.9	730.7	127.23	1.5882	0.695
51.50	834.0	730.8	127.25	1.5825	0.696
52.00	834.2	731.0	127.26	1.5769	0.696
52.50	834.3	731.1	127.27	1.5714	0.696
53.00	834.5	731.3	127.28	1.5660	0.696
53.50	834.6	731.4	127.29	1.5607	0.696
54.00	834.7	731.5	127.31	1.5556	0.697
54.50	834.8	731.6	127.32	1.5505	0.697
55.00	834.9	731.7	127.34	1.5455	0.697
55.50	835.1	731.9	127.36	1.5405	0.697
56.00	835.2	732.0	127.36	1.5357	0.698
56.50	835.3	732.1	127.39	1.5310	0.698
57.00	835.4	732.2	127.40	1.5263	0.698
57.50	835.5	732.3	127.42	1.5217	0.698
58.00	835.7	732.5	127.44	1.5172	0.698
58.50	835.8	732.6	127.45	1.5128	0.699
59.00	835.9	732.7	127.46	1.5085	0.699
***** End Shut-in 1					
***** Start Flow 2					
0.00	113.3	0.0	127.50		
0.50	113.0	-0.4	127.52		
1.00	114.6	1.3	127.53		
1.50	115.5	2.2	127.52		
2.00	116.2	2.8	127.50		
2.50	117.0	3.7	127.50		
3.00	117.9	4.6	127.50		
3.50	118.7	5.4	127.49		
4.00	119.9	6.6	127.49		
4.50	121.0	7.7	127.48		
5.00	121.9	8.6	127.47		
5.50	122.8	9.5	127.48		
6.00	123.8	10.5	127.48		
6.50	124.8	11.5	127.48		
7.00	125.7	12.4	127.49		
7.50	126.7	13.4	127.50		
8.00	127.6	14.3	127.50		
8.50	128.4	15.1	127.52		
9.00	129.3	15.9	127.54		
9.50	130.2	16.9	127.53		
10.00	130.8	17.5	127.54		
10.50	131.7	18.4	127.56		
11.00	132.6	19.3	127.56		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

DATE: 03/18/98 TIME: 23:28:21

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
11.50	133.5	20.1	127.58		
12.00	134.3	21.0	127.60		
12.50	135.2	21.8	127.62		
13.00	136.0	22.7	127.63		
13.50	136.8	23.5	127.65		
14.00	137.7	24.4	127.66		
14.50	138.5	25.2	127.69		
15.00	139.4	26.1	127.71		
15.50	140.3	26.9	127.73		
16.00	141.1	27.8	127.75		
16.50	141.8	28.5	127.77		
17.00	142.8	29.5	127.78		
17.50	143.4	30.0	127.81		
18.00	144.2	30.9	127.83		
18.50	145.0	31.7	127.84		
19.00	145.8	32.5	127.87		
19.50	146.5	33.2	127.87		
20.00	147.4	34.0	127.91		
20.50	148.1	34.8	127.94		
21.00	148.9	35.5	127.96		
21.50	149.6	36.3	127.98		
22.00	150.4	37.1	128.00		
22.50	151.1	37.8	128.02		
23.00	151.9	38.6	128.05		
23.50	152.6	39.3	128.08		
24.00	153.4	40.1	128.10		
24.50	154.1	40.8	128.12		
25.00	154.9	41.6	128.16		
25.50	155.4	42.1	128.16		
26.00	155.4	43.0	128.18		
26.50	157.2	43.9	128.19		
27.00	158.0	44.7	128.22		
27.50	158.9	45.6	128.25		
28.00	159.6	46.3	128.27		
28.50	160.5	47.2	128.29		
29.00	161.3	48.0	128.32		
29.50	162.2	48.9	128.34		
30.00	163.1	49.8	128.37		
30.50	163.8	50.5	128.39		
31.00	164.7	51.4	128.43		
31.50	165.5	52.2	128.45		
32.00	166.4	53.1	128.47		
32.50	167.2	53.9	128.50		
33.00	168.0	54.7	128.53		
33.50	168.9	55.6	128.55		
34.00	169.4	56.1	128.57		
34.50	170.2	56.9	128.60		
35.00	170.9	57.6	128.63		
35.50	171.7	58.4	128.65		
36.00	172.5	59.2	128.67		
36.50	173.2	59.9	128.71		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.
 DATE: 03/18/98 TIME: 23:28:21

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
37.00	174.0	60.7	128.72		
37.50	174.8	61.4	128.75		
38.00	175.5	62.2	128.77		
38.50	176.2	62.9	128.80		
39.00	176.9	63.6	128.82		
39.50	177.7	64.4	128.84		
40.00	178.4	65.1	128.87		
40.50	179.3	66.0	128.89		
41.00	180.1	66.8	128.92		
41.50	180.8	67.5	128.94		
42.00	181.5	68.2	128.96		
42.50	182.1	68.8	128.99		
43.00	182.8	69.5	129.02		
43.50	183.6	70.3	129.05		
44.00	184.3	71.0	129.07		
44.50	185.1	71.8	129.10		
45.00	185.8	72.4	129.12		
45.50	186.6	73.2	129.15		
46.00	187.3	74.0	129.17		
46.50	188.1	74.7	129.20		
47.00	188.7	75.4	129.22		
47.50	189.4	76.1	129.25		
48.00	190.1	76.8	129.26		
48.50	190.7	77.4	129.29		
49.00	191.5	78.1	129.32		
49.50	192.2	78.8	129.34		
50.00	192.8	79.5	129.36		
50.50	193.6	80.2	129.39		
51.00	194.2	80.9	129.42		
51.50	194.8	81.5	129.44		
52.00	195.3	82.0	129.46		
52.50	196.1	82.8	129.48		
53.00	196.8	83.5	129.50		
53.50	197.6	84.3	129.53		
54.00	198.4	85.1	129.54		
54.50	199.3	85.9	129.57		
55.00	200.0	86.7	129.60		
55.50	200.7	87.4	129.62		
56.00	201.4	88.1	129.64		
56.50	202.2	88.8	129.66		
57.00	203.0	89.6	129.68		
57.50	203.7	90.3	129.71		
58.00	204.4	91.1	129.72		
58.50	205.1	91.8	129.76		
59.00	205.9	92.5	129.78		
59.50	206.7	93.4	129.80		
60.00	207.3	94.0	129.82		
***** End Flow 2					
***** Start Shutin 2	0.00	207.3	0.0	129.82	0.0000 0.043
	0.50	215.6	8.2	129.85	181.0000 0.046
	1.00	245.1	37.7	129.86	91.0000 0.060
	1.50	278.7	71.4	129.88	61.0000 0.078

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

DATE: 03/18/98

TIME: 23:28:21

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
2.00	318.5	111.2	129.91	46.0000	0.101
2.50	365.0	157.7	129.92	37.0000	0.133
3.00	417.8	210.5	129.95	31.0000	0.175
3.50	474.9	267.5	129.97	26.7143	0.225
4.00	531.6	324.3	130.00	23.5000	0.283
4.50	583.3	375.9	130.02	21.0000	0.340
5.00	626.7	419.4	130.06	19.0000	0.393
5.50	661.4	454.1	130.08	17.3636	0.437
6.00	688.2	480.9	130.10	16.0000	0.474
6.50	708.8	501.4	130.13	14.8462	0.502
7.00	724.4	517.1	130.15	13.8571	0.525
7.50	736.6	529.2	130.18	13.0000	0.543
8.00	746.1	538.7	130.20	12.2500	0.557
8.50	753.7	546.3	130.23	11.5882	0.568
9.00	759.8	552.5	130.25	11.0000	0.577
9.50	765.0	557.6	130.27	10.4737	0.585
10.00	769.3	562.0	130.30	10.0000	0.592
10.50	773.0	565.7	130.33	9.5714	0.598
11.00	776.2	568.9	130.36	9.1818	0.602
11.50	779.0	571.7	130.38	8.8261	0.607
12.00	781.4	574.1	130.39	8.5000	0.611
12.50	783.7	576.3	130.41	8.2000	0.614
13.00	785.7	578.3	130.44	7.9231	0.617
13.50	787.5	580.1	130.46	7.6667	0.620
14.00	789.1	581.8	130.48	7.4286	0.623
14.50	790.6	583.3	130.50	7.2069	0.625
15.00	792.0	584.7	130.51	7.0000	0.627
15.50	793.3	586.0	130.53	6.8065	0.629
16.00	794.6	587.2	130.55	6.6250	0.631
16.50	795.7	588.4	130.56	6.4545	0.633
17.00	796.8	589.5	130.59	6.2941	0.635
17.50	797.8	590.5	130.60	6.1429	0.637
18.00	798.8	591.4	130.62	6.0000	0.638
18.50	799.7	592.3	130.64	5.8649	0.640
19.00	800.6	593.2	130.65	5.7368	0.641
19.50	801.4	594.0	130.67	5.6154	0.642
20.00	802.2	594.8	130.68	5.5000	0.644
20.50	802.9	595.6	130.69	5.3902	0.645
21.00	803.7	596.3	130.71	5.2857	0.646
21.50	804.4	597.0	130.74	5.1860	0.647
22.00	805.0	597.7	130.75	5.0909	0.648
22.50	805.7	598.3	130.77	5.0000	0.649
23.00	806.3	599.0	130.78	4.9130	0.650
23.50	806.9	599.6	130.80	4.8298	0.651
24.00	807.5	600.1	130.82	4.7500	0.652
24.50	808.1	600.7	130.83	4.6735	0.653
25.00	808.6	601.3	130.85	4.6000	0.654
25.50	809.1	601.8	130.85	4.5294	0.655
26.00	809.6	602.3	130.88	4.4615	0.655
26.50	810.1	602.8	130.88	4.3962	0.656
27.00	810.6	603.3	130.89	4.3333	0.657

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

DATE: 03/18/98 TIME: 23:28:21

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
27.50	811.0	603.7	130.91	4.2727	0.658
28.00	811.5	604.1	130.92	4.2143	0.659
28.50	811.9	604.6	130.93	4.1579	0.659
29.00	812.3	605.0	130.94	4.1034	0.660
29.50	812.7	605.4	130.95	4.0508	0.661
30.00	813.2	605.8	130.96	4.0000	0.661
30.50	813.5	606.2	130.97	3.9508	0.662
31.00	813.9	606.6	130.98	3.9032	0.662
31.50	814.3	607.0	130.99	3.8571	0.663
32.00	814.6	607.3	131.01	3.8125	0.664
32.50	815.0	607.7	131.02	3.7692	0.664
33.00	815.3	608.0	131.03	3.7273	0.665
33.50	815.7	608.3	131.04	3.6866	0.665
34.00	816.0	608.6	131.05	3.6471	0.666
34.50	816.3	609.0	131.07	3.6087	0.666
35.00	816.6	609.3	131.07	3.5714	0.667
35.50	817.0	609.6	131.07	3.5352	0.667
36.00	817.2	609.9	131.08	3.5000	0.668
36.50	817.5	610.2	131.09	3.4658	0.668
37.00	817.8	610.5	131.09	3.4324	0.669
37.50	818.1	610.8	131.11	3.4000	0.669
38.00	818.4	611.0	131.12	3.3684	0.670
38.50	818.7	611.3	131.12	3.3377	0.670
39.00	818.9	611.6	131.13	3.3077	0.671
39.50	819.2	611.8	131.14	3.2785	0.671
40.00	819.4	612.1	131.16	3.2500	0.671
40.50	819.6	612.3	131.17	3.2222	0.672
41.00	819.9	612.6	131.20	3.1951	0.672
41.50	820.1	612.8	131.20	3.1687	0.673
42.00	820.4	613.0	131.20	3.1429	0.673
42.50	820.6	613.3	131.23	3.1176	0.673
43.00	820.8	613.5	131.22	3.0930	0.674
43.50	821.1	613.7	131.22	3.0690	0.674
44.00	821.3	613.9	131.28	3.0455	0.674
44.50	821.5	614.1	131.30	3.0225	0.675
45.00	821.7	614.4	131.30	3.0000	0.675
45.50	821.9	614.6	131.30	2.9780	0.676
46.00	822.1	614.8	131.32	2.9565	0.676
46.50	822.3	615.0	131.30	2.9355	0.676
47.00	822.5	615.2	131.32	2.9149	0.677
47.50	822.7	615.4	131.32	2.8947	0.677
48.00	822.9	615.5	131.32	2.8750	0.677
48.50	823.1	615.7	131.32	2.8557	0.677
49.00	823.2	615.9	131.32	2.8367	0.678
49.50	823.4	616.0	131.32	2.8182	0.678
50.00	823.5	616.2	131.32	2.8000	0.678
50.50	823.7	616.4	131.32	2.7822	0.679
51.00	823.9	616.6	131.32	2.7647	0.679
51.50	824.1	616.7	131.32	2.7476	0.679
52.00	824.2	616.9	131.32	2.7308	0.679
52.50	824.4	617.0	131.32	2.7143	0.680

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

DATE: 03/18/98 TIME: 23:28:21

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
53.00	824.6	617.2	131.32	2.6981	0.680
53.50	824.7	617.4	131.32	2.6822	0.680
54.00	824.8	617.5	131.32	2.6667	0.680
54.50	825.0	617.7	131.32	2.6514	0.681
55.00	825.2	617.8	131.32	2.6364	0.681
55.50	825.3	618.0	131.32	2.6216	0.681
56.00	825.5	618.1	131.32	2.6071	0.681
56.50	825.6	618.3	131.32	2.5929	0.682
57.00	825.7	618.4	131.32	2.5789	0.682
57.50	825.9	618.6	131.32	2.5652	0.682
58.00	826.0	618.7	131.33	2.5517	0.682
58.50	826.2	618.8	131.33	2.5385	0.683
59.00	826.3	619.0	131.33	2.5254	0.683
59.50	826.4	619.1	131.33	2.5126	0.683
60.00	826.6	619.3	131.33	2.5000	0.683
60.50	826.7	619.4	131.33	2.4876	0.683
61.00	826.8	619.5	131.33	2.4754	0.684
61.50	827.0	619.6	131.34	2.4634	0.684
62.00	827.1	619.7	131.33	2.4516	0.684
62.50	827.2	619.9	131.34	2.4400	0.684
63.00	827.3	620.0	131.36	2.4286	0.684
63.50	827.4	620.1	131.36	2.4173	0.685
64.00	827.6	620.2	131.36	2.4062	0.685
64.50	827.7	620.3	131.38	2.3953	0.685
65.00	827.8	620.4	131.39	2.3846	0.685
65.50	827.9	620.5	131.39	2.3740	0.685
66.00	828.0	620.7	131.40	2.3636	0.686
66.50	828.1	620.8	131.39	2.3534	0.686
67.00	828.2	620.9	131.39	2.3433	0.686
67.50	828.3	621.0	131.40	2.3333	0.686
68.00	828.5	621.1	131.41	2.3235	0.686
68.50	828.6	621.2	131.41	2.3139	0.687
69.00	828.6	621.3	131.41	2.3043	0.687
69.50	828.8	621.4	131.41	2.2950	0.687
70.00	828.9	621.5	131.41	2.2857	0.687
70.50	829.0	621.6	131.42	2.2766	0.687
71.00	829.1	621.7	131.43	2.2676	0.687
71.50	829.2	621.8	131.42	2.2587	0.688
72.00	829.2	621.9	131.44	2.2500	0.688
72.50	829.4	622.0	131.43	2.2414	0.688
73.00	829.5	622.1	131.44	2.2329	0.688
73.50	829.5	622.2	131.44	2.2245	0.688
74.00	829.6	622.3	131.44	2.2162	0.688
74.50	829.7	622.4	131.44	2.2081	0.688
75.00	829.8	622.5	131.44	2.2000	0.689
75.50	829.9	622.6	131.44	2.1921	0.689
76.00	830.0	622.7	131.45	2.1842	0.689
76.50	830.1	622.8	131.45	2.1765	0.689
77.00	830.2	622.8	131.46	2.1688	0.689
77.50	830.2	622.9	131.46	2.1613	0.689
78.00	830.3	623.0	131.46	2.1538	0.689

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

DATE: 03/18/98 TIME: 23:28:21

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
78.50	830.4	623.1	131.49	2.1465	0.690
79.00	830.5	623.2	131.47	2.1392	0.690
79.50	830.6	623.3	131.47	2.1321	0.690
80.00	830.7	623.3	131.47	2.1250	0.690
80.50	830.8	623.4	131.49	2.1180	0.690
81.00	830.8	623.5	131.48	2.1111	0.690
81.50	830.9	623.6	131.48	2.1043	0.690
82.00	831.0	623.6	131.48	2.0976	0.691
82.50	831.1	623.7	131.49	2.0909	0.691
83.00	831.2	623.8	131.49	2.0843	0.691
83.50	831.2	623.9	131.48	2.0778	0.691
84.00	831.3	623.9	131.48	2.0714	0.691
84.50	831.4	624.0	131.49	2.0651	0.691
85.00	831.5	624.1	131.50	2.0588	0.691
85.50	831.5	624.2	131.51	2.0526	0.691
86.00	831.6	624.3	131.51	2.0465	0.692
86.50	831.7	624.3	131.50	2.0405	0.692
87.00	831.8	624.4	131.51	2.0345	0.692
87.50	831.8	624.5	131.51	2.0286	0.692
88.00	831.9	624.6	131.50	2.0227	0.692
88.50	832.0	624.6	131.51	2.0169	0.692
89.00	832.0	624.7	131.51	2.0112	0.692
89.50	832.1	624.8	131.52	2.0056	0.692
90.00	832.2	624.8	131.51	2.0000	0.693
90.50	832.2	624.9	131.53	1.9945	0.693
91.00	832.3	625.0	131.52	1.9890	0.693
91.50	832.4	625.0	131.53	1.9836	0.693
92.00	832.5	625.1	131.52	1.9783	0.693
92.50	832.5	625.2	131.52	1.9730	0.693
93.00	832.6	625.3	131.52	1.9677	0.693
93.50	832.7	625.3	131.52	1.9626	0.693
94.00	832.7	625.4	131.53	1.9574	0.693
94.50	832.8	625.4	131.53	1.9524	0.694
95.00	832.8	625.5	131.54	1.9474	0.694
95.50	832.9	625.6	131.54	1.9424	0.694
96.00	833.0	625.6	131.54	1.9375	0.694
96.50	833.0	625.7	131.53	1.9326	0.694
97.00	833.1	625.8	131.53	1.9278	0.694
97.50	833.1	625.8	131.55	1.9231	0.694
98.00	833.2	625.9	131.54	1.9184	0.694
98.50	833.3	626.0	131.56	1.9137	0.694
99.00	833.3	626.0	131.55	1.9091	0.694
99.50	833.4	626.0	131.56	1.9045	0.695
100.00	833.5	626.1	131.54	1.9000	0.695
100.50	833.5	626.2	131.56	1.8955	0.695
101.00	833.6	626.2	131.56	1.8911	0.695
101.50	833.6	626.3	131.56	1.8867	0.695
102.00	833.7	626.3	131.56	1.8824	0.695
102.50	833.7	626.4	131.56	1.8780	0.695
103.00	833.8	626.4	131.56	1.8738	0.695
103.50	833.8	626.5	131.57	1.8696	0.695

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10212 DST#1 Rich Brown #1-29 Harris Oil & Gas Co.

DATE: 03/18/98 TIME: 23:28:21

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
104.00	833.9	626.5	131.57	1.8654	0.695
104.50	833.9	626.6	131.57	1.8612	0.695
105.00	834.0	626.7	131.57	1.8571	0.696
105.50	834.0	626.7	131.58	1.8531	0.696
106.00	834.1	626.7	131.57	1.8491	0.696
106.50	834.2	626.8	131.58	1.8451	0.696
107.00	834.2	626.9	131.58	1.8411	0.696
107.50	834.3	626.9	131.58	1.8372	0.696
108.00	834.3	627.0	131.59	1.8333	0.696
108.50	834.4	627.0	131.59	1.8295	0.696
109.00	834.4	627.1	131.59	1.8257	0.696
109.50	834.5	627.1	131.59	1.8219	0.696
110.00	834.5	627.2	131.59	1.8182	0.696
110.50	834.6	627.2	131.59	1.8145	0.697
111.00	834.6	627.3	131.59	1.8108	0.697
111.50	834.7	627.3	131.59	1.8072	0.697
112.00	834.7	627.4	131.59	1.8036	0.697
112.50	834.8	627.4	131.60	1.8000	0.697
113.00	834.8	627.5	131.59	1.7965	0.697
113.50	834.9	627.5	131.60	1.7930	0.697
114.00	834.9	627.6	131.60	1.7895	0.697
114.50	835.0	627.6	131.60	1.7860	0.697
115.00	835.0	627.6	131.60	1.7826	0.697
115.50	835.0	627.7	131.61	1.7792	0.697
116.00	835.1	627.8	131.60	1.7759	0.697
116.50	835.1	627.8	131.61	1.7725	0.697
117.00	835.2	627.8	131.61	1.7692	0.698
117.50	835.2	627.9	131.61	1.7660	0.698
118.00	835.3	627.9	131.61	1.7627	0.698
118.50	835.3	628.0	131.61	1.7595	0.698
119.00	835.4	628.0	131.61	1.7563	0.698
119.50	835.4	628.1	131.62	1.7531	0.698
***** End Shut-in 2					
***** Final Hydro.	468.50	2360.3	0.0	131.74	

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 10212 Date 3-18-98

Company Name Harris Oil & Gas

Lease Rich Brown 1-29 Test No. 1

County Madison KS Sec. 29 Twp. 33S Rng. 42W

Total Vol. = 4000 ml.

SAMPLER RECOVERY

Gas 4.5 CF ML

Oil 0 ML

Mud 0 ML

Water 4000 ML

Other 0 ML

Pressure 385 PSI

Total Vol. Rec. 4000 ML

PIT MUD ANALYSIS

Chlorides 1,000 ppm.

Resistivity 8.5 ohms @ 50 F

Viscosity 48

Mud Weight 9.1

Filtrate 8.8

Other 9# L.C.M.

SAMPLER ANALYSIS

Resistivity 0.36 ohms @ 43 F

Chlorides 32,000 ppm.

Gravity — corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM
Resistivity 0.36 ohms @ 43 F

Chlorides 32,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 10212

Well Name & No. Rich Brown 1-29 Test No. 1 Date 3-18-98
 Company Harris O & G Co. Zone Tested Keys
 Address 1125 17th St., Suite 2290 Denver Co. Elevation 3553 KB 3543 GL
 Co. Rep / Geo. Tommy Discher Cont. Allen Rig 2 Est. Ft. of Pay 23 Por. 12 %
 Location: Sec. 29 Twp. 33 S. Rge. 42 W. Co. Morton State Ks.
 No. of Copies Req Distribution Sheet (Y, N) _____ Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 4858-4881 Initial Str Wt./Lbs. 78,000 Unseated Str Wt./Lbs. 79,000
 Anchor Length 23' Tool = 30 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 5,000
 Top Packer Depth 4853 Tool Weight 1,800
 Bottom Packer Depth 4858 Hole Size — 7 7/8" 8 3/4" Rubber Size — 6 3/4" 7 1/2"
 Total Depth 4881 Wt. Pipe Run _____ Drill Collar Run 527
 Mud Wt. 9.1 LCM 9# Vis. 48 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 4330 29 1/4
 Blow Description Weak, 1/2" built to string OBB in 28 Min. T.F.P.
No blow-back. T.S.T.P.
Weak 1/4" built to string OBB in 52 Min. F.F.P.
No blow-back. F.S.T.P.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>90</u> Feet Of <u>Mud</u>		<u>415</u>	
Rec. <u>90</u> Feet Of <u>Very Mud cut WTC</u>	%gas	%oil	%water <u>100</u> %mud
Rec. <u>235</u> Feet Of <u>Coarse WTC</u>	<u>4</u> %gas	%oil	<u>96</u> %water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud

BHT 131 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW 0.36 @ 43 °F Chlorides 32,000 ppm Recovery Chlorides 1,000 ppm System

(A) Initial Hydrostatic Mud	<u>2407</u> <u>2378</u> PSI	Recorder No. <u>3017</u>	" <u>23:28</u> " T-Started <u>11:40 P.M.</u>
(B) First Initial Flow Pressure	<u>46</u> <u>43</u> PSI	(depth) <u>4860</u>	T-Open <u>2:40 A.M.</u>
(C) First Final Flow Pressure	<u>70</u> <u>103</u> PSI	Recorder No. <u>10242</u>	T-Pulled <u>7:10 A.M.</u>
(D) Initial Shut-in Pressure	<u>829</u> <u>835</u> PSI	(depth) <u>4878</u>	T-Out <u>11:00 A.M.</u>
(E) Second Initial Flow Pressure	<u>119</u> <u>113</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure	<u>172</u> <u>207</u> PSI	(depth) _____	
(G) Final Shut-in Pressure	<u>838</u> <u>835</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/>
(H) Final Hydrostatic Mud	<u>2343</u> <u>2360</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/>
	<u>AK-1</u> <u>Alpine</u>	Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/>
		Final Shut-in <u>120</u>	Straddle _____

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Approved By [Signature]

Our Representative [Signature]

TOTAL PRICE \$ 4,300.00