

FORM MUST BE TYPED

Side One

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

Operator: License # 5428
Name: Graves Drilling Co., Inc.
Address: P.O. Box 8250
City/State/Zip: Wichita, KS 67208-0250
Purchaser: Plains All American
Operator Contact Person: Phyllis A. Freeman
Phone: (316) 687-2777
Contractor Name: Duke Drilling Co., Inc.
License #: 5929
Wellsite Geologist: Timothy G. Pierce
Designate Type of Completion
 New Well Re-Entry Workover Temp. Abd.
 Oil SWD SLOW
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-Entry: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date: _____
 Deepening Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or inj?) Docket No. _____
10/25/99 11/1/99 11/18/99
Spud Date Date Reached TD Completion Date

API NO. 15- 095-21757 0000
County: Kingman

135°W S/2 - SW - SW - Sec. 12 Twp. 28S Rge. 5 W
330 Feet from South Line of Section
525 Feet from West Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW x SW (circle one)

Lease Name: Jones Well #: 1
Field Name: Wildcat
Producing Formation: Mississippian
Elevation: Ground 1381 ft KB 1389 ft
Total Depth: 3896 ft PBDT 3895
Amount of Surface Pipe Set and Cemented at: 262 ft
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ ft
If Alternate II Completion, cement circulated from: _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Att. 1, 1-20-00 U.C.
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid Volume _____ bbls
Dewatering method used evaporated

Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____
_____ Quarter Sec. Twp. Rge. W
County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market, Rm 2078, Wichita, KS 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: Phyllis A. Freeman
Title: Executive Administrator

Subscribed and sworn to before me this 14th day of December, 1999.
May 13, 2003
Dt Commission Expires Sondra J. Boyd, Notary Public

K.C.C. OFFICE USE ONLY
F NO Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Form ACO-1 (7-91)

SONDRA J. BOYD
Notary Public - State of Kansas
My Appt. Expires 5-13-03

RECEIVED
ST. CORPORATION COMMISSION
DEC 23 1999
Conservation Division
Wichita, Kansas

Side Two

Operator Name: Graves Drilling Co., Inc. Lease Name: Jones Well #: 1
 Sec. 12 Twp. 28S Rge. 5 W Kingman

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 (Attach Additional Sheets) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample																														
Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Name</td> <td style="width: 30%;">Top</td> <td style="width: 40%;">Datum</td> </tr> <tr> <td>Indian Cave</td> <td>1693</td> <td>-304</td> </tr> <tr> <td>Brown Lime</td> <td>2862</td> <td>-1473</td> </tr> <tr> <td>Lansing</td> <td>2921</td> <td>-1532</td> </tr> <tr> <td>Kansas City</td> <td>3138</td> <td>-1749</td> </tr> <tr> <td>Stark Shale</td> <td>3308</td> <td>-1919</td> </tr> <tr> <td>Cherokee Shale</td> <td>3572</td> <td>-2183</td> </tr> <tr> <td>Mississippian</td> <td>3753</td> <td>-2364</td> </tr> <tr> <td>RTD</td> <td>3896</td> <td>-2507</td> </tr> <tr> <td>LTD</td> <td>3895</td> <td>-2506</td> </tr> </table>	Name	Top	Datum	Indian Cave	1693	-304	Brown Lime	2862	-1473	Lansing	2921	-1532	Kansas City	3138	-1749	Stark Shale	3308	-1919	Cherokee Shale	3572	-2183	Mississippian	3753	-2364	RTD	3896	-2507	LTD	3895	-2506
Name	Top	Datum																													
Indian Cave	1693	-304																													
Brown Lime	2862	-1473																													
Lansing	2921	-1532																													
Kansas City	3138	-1749																													
Stark Shale	3308	-1919																													
Cherokee Shale	3572	-2183																													
Mississippian	3753	-2364																													
RTD	3896	-2507																													
LTD	3895	-2506																													
Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																															
Electric Log Run (Submit Copy) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																															
List All E.Logs Run: <u>DIL - CNDL -- Sonic</u>																															

CASING RECORD <input type="checkbox"/> NEW <input 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"	23#	262	60/40 Poz	175	3% cc, 2% gel
Production	7-7/8"	5-1/2"	14#	3892	50/50 Poz	100	12% salt, 5#Kolscal

ADDITIONAL CEMENTING/ SQUEEZE RECORD					
Purpose:	Depth Top	Depth 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 - <small>Bridge Plugs Set/Type</small>	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(AMOUNT AND KIND OF MATERIAL USED) Depth
4 4	Perf: 3788-3792 Perf: 3809-3814	600 gal SBM 15% MCA Acid

TUBING RECORD		SIZE	SET AT	PACKER AT	LINER RUN		
		2-3/8"	3846		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Inj.				Producing Method			
November 18, 1999				<input type="checkbox"/> Flowing	<input checked="" type="checkbox"/> Pumping	<input type="checkbox"/> Gas Lift	<input type="checkbox"/>
Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas - Oil Ratio		Gravity	
	20					35 degrees	

Disposition of Gas: Vented Sold Used on Lease

METHOD OF COMPLETION

Open Hole Perf. Dually Comp.

Commingled Other (specify) _____

Production Interval _____

(If vented, submit ACO-18)

RECEIVED
ST. CORPORATION COMMISSION

DEC 2 5 1999

Conservation Division
Wichita, Kansas

APPLIED CEMENTING CO., INC.

P.O. BOX 31
 RUSSELL, KS 67668
 PH (785) 453-3227
 FAX (785) 453-5533

INVOICE

ORIGINAL

Invoice Number: 079951

Invoice Date: 10/25/99

Sold Graves Drilling Co., Inc.
 To: P. O. Box 8250
 Wichita, KS
 67208

Cust I.D.....: Graves
 P.O. Number...: Jones #1
 P.O. Date.....: 10/25/99

Due Date.: 11/24/99
 Terms.....: Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	105.00	SKS	6.3500	666.75	E
Pozmix	70.00	SKS	3.2500	227.50	E
cel	3.00	SKS	9.5000	28.50	E
Chloride	6.00	SKS	28.0000	168.00	E
Handling	175.00	SKS	1.0500	183.75	E
Mileage (50)	50.00	MILE	7.0000	350.00	E
175 sks @\$.04 per sk per mi					
Surface	1.00	JOB	470.0000	470.00	E
Mileage pmp trk	50.00	MILE	2.8500	142.50	E
TWP	1.00	EACH	45.0000	45.00	E

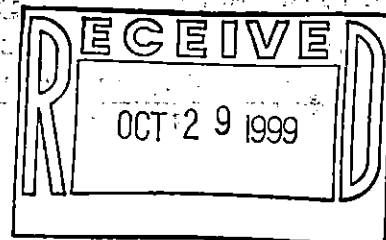
All Prices Are Net, Payable 30 Days Following Subtotal: 2282.00
 Date of Invoice. 1 1/2% Charged Thereafter. Tax: 0.00
 If Account CURRENT take Discount of \$456.40 Payments: 0.00
 ONLY if paid within 30 days from Invoice Date Total: 2282.00
<456.40
 # 1825.60

5304 112046

RECEIVED
 ST. CORPORATION COMMISSION

DEC 25 1999

Conservation Division
 Wichita, Kansas



✓ ALLIED CEMENTING CO., INC.

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

B/P

14/3

11/26

* INVOICE *

***** ORIGINAL *****

Invoice Number: 080016 ✓

Invoice Date: 11/01/99 ✓

Sold Graves Drilling Co., Inc.
 To: P. O. Box 8250
 Wichita, KS
 67208

Cust I.D.....: Graves
 P.O. Number...: Jones #1
 P.O. Date.....: 11/01/99

Due Date.: 12/01/99
 Terms.....: Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	65.00	SKS	6.3500	412.75	E
Pozmix	60.00	SKS	3.2500	195.00	E
Gel	1.00	SKS	9.5000	9.50	E
Salt	10.00	SKS	7.0000	70.00	E
KolSeal	500.00	LBS	0.3800	190.00	E
ClaPro	9.00	GAL	22.9000	206.10	E
FL-10	25.00	LBS	7.2500	181.25	E
Mud Clean	500.00	GAL	0.7500	375.00	E
Handling	125.00	SKS	1.0500	131.25	E
Mileage (50)	50.00	MILE	5.0000	250.00	E
125 sks @ \$.04 per sk per mi					
Production	1.00	JOB	1080.0000	1080.00	E
Mileage pmp trk	50.00	MILE	2.8500	142.50	E
Rubber plug	1.00	EACH	50.0000	50.00	E
Reg. Guide Shoe	1.00	EACH	110.0000	110.00	E
AFU Insert	1.00	EACH	165.0000	165.00	E
Centralizers	4.00	EACH	25.0000	100.00	E

All Prices Are Net, Payable 30 Days Following Subtotal: 3668.35
 Date of Invoice. 1 1/2% Charged Thereafter. Tax.....: 0.00
 If Account CURRENT take Discount of \$ 733.67 Payments: 0.00
 ONLY if paid within 30 days from Invoice Date Total....: 3668.35
 - 733.67
 2934.68 ✓

1740-04 951551

Cement #1
 RECEIVED
 ST. CORPORATION COMMISSION
 DEC 25 1999

RECEIVED
 NOV 12 1999

Well Name: Jones #1
Company: Grave Drilling Inc.
Location: 12-28s-5w
Kingman county Kansas
Date: 11-2-99

RECEIVED
ST. CORPORATION COMMISSION

DEC 2 1999

Conservation Division
Wichita, Kansas

TRILOBITE TESTING L.L.C.

OPERATOR : Grave Drilling, inc.

DATE 10/29/199

WELL NAME: Jones #1

KB 1389.00 ft TICKET NO: 12324 DST #1

LOCATION : 12-28s-5w Kingman co KS

GR 1381.00 ft FORMATION: Swope

INTERVAL : 3305.00 To 3325.00 ft

TD 3325.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins.		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10991	10991	3246			PF Fr. 0822 to 0852 hr
SI 60	Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 0852 to 0952 hr
SF 30	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0952 to 1022 hr
FS 60	Depth(ft)	3323.0	3323.0	3311.0	0.0	0.0	FS Fr. 1022 to 1122 hr

	Field	1	2	3	4	
A. Init Hydro	1639.0	1625.0	1605.0	0.0	0.0	T STARTED 0657 hr
B. First Flow	32.0	31.0	21.0	0.0	0.0	T ON BOTM 0819 hr
B1. Final Flow	64.0	57.0	85.0	0.0	0.0	T OPEN 0822 hr
C. In Shut-in	1343.0	1345.0	1351.0	0.0	0.0	T PULLED 1122 hr
D. Init Flow	106.0	1104.0	88.0	0.0	0.0	T OUT 1245 hr
E. Final Flow	128.0	117.0	141.0	0.0	0.0	
F. Fl Shut-in	1332.0	1232.0	1342.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1576.0	1588.0	1588.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 42000.00 lbs
						Initial Str Wt 38000.00 lbs
						Unseated Str Wt 38000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3317.00 ft

RECOVERY

Tot Fluid 290.00 ft of 0.00 ft in DC and 290.00 ft in DP
 40.00 ft of Oil and gas cut muddy water
 0.00 ft of trace of oil 46% water 40% mud
 250.00 ft of Gas cut muddy water 20% gas 74% water 6% mud
 0.00 ft of Trace of gas in pipe
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 140000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak blow built to bottom of bucket
 in 18 mins.
 Initial Shut-in:
 Bled down for 5 mins. no blow back.
 Final Flow:
 Weak surface blow built to bottom
 of bucket in 22 mins.
 Final Shut-in:
 Bled down for 5 mins. no blow back

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.40 lb/cf
 Vis. 42.00 S/L
 W.L. 11.20 in3
 F.C. 0.32 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 114.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Darren L.Amerine
 Co. Rep. Tim Pierce
 Contr. Duke
 Rig # 2
 Unit # no
 Pump T. none

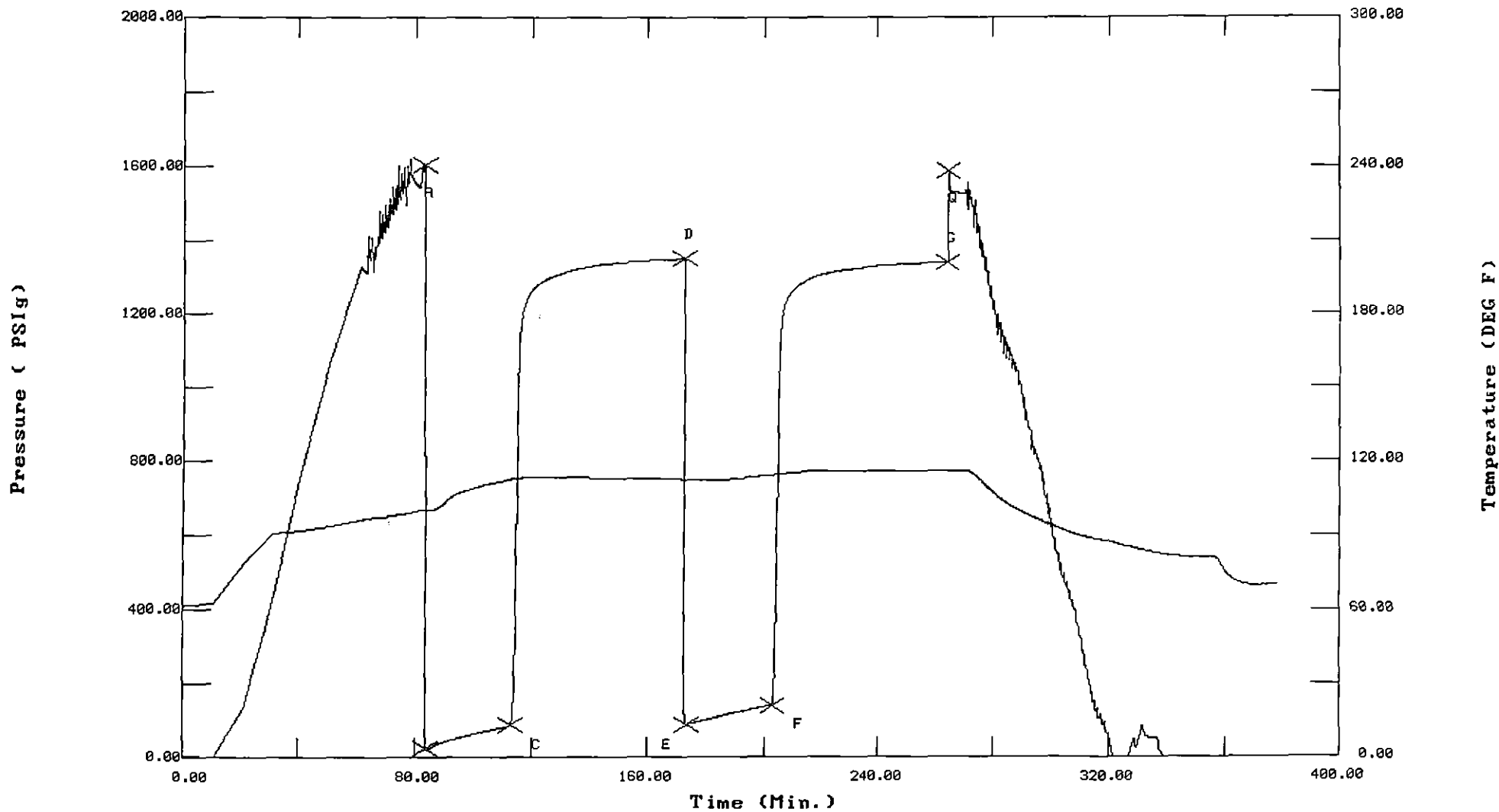
Test Successful: Y

TEST HISTORY

Tk#12324 DST#1 Jones #1 Grave Drilling, Inc.

Flag Points

	t (Min.)	P (PSIg)
A:	0.00	1604.77
B:	0.00	20.75
C:	29.25	84.82
D:	60.00	1351.14
E:	0.00	88.30
F:	29.25	140.56
G:	61.00	1341.57
Q:	0.00	1588.04



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 1232

Test Ticket

Well Name & No. Jones #1 Test No. #1 Date 10/29/1999
 Company Graves Drilling Zone Tested Swape
 Address P.O. box 8250 Wichita, KS 67208-0250 Elevation 1389 KB 1331 GL
 Co. Rep / Geo. Tom Pierce Cont. Duke #2 Est. Ft. of Pay Por. %
 Location: Sec. 12 Twp. 28^s Rge. 5^w Co. Kingman State KS
 No. of Copies 5 Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3305 - 3325' Initial Str Wt./Lbs. 3800 Unseated Str Wt./Lbs. 3800
 Anchor Length 20' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 42,000
 Top Packer Depth 3300' Tool Weight 2100
 Bottom Packer Depth 3305' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3325' Wt. Pipe Run N/A Drill Collar Run N/A
 Mud Wt. 9.4 LCM A Vis. 42 WL 11.2 Drill Pipe Size 4 1/2 X 11 Ft. Run 3317'

Blow Description IF: Weak blow, built to h.o.d in 18 mins
ISI: Bleed down for 5 mins no blow back
EF: Weak surface blow built to h.o.d in 22 mins
EIS: Bleed down for 5 mins

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>290'</u>	<u>Trace</u>	<u>N/A</u>	<u>290'</u>
Rec. <u>40</u> Feet Of <u>OEECMW</u>	%gas <u>Trace</u>	%oil <u>46</u>	%water <u>40</u> %mud
Rec. <u>250</u> Feet Of <u>SCMW</u>	%gas <u>20</u>	%oil <u>74</u>	%water <u>6</u> %mud
Rec. <u> </u> Feet Of <u>Trace GAS In pipe</u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud

BHT 114" °F Gravity °API D₄₀ °F Corrected Gravity °API
 RW .05 @ 800 °F Chlorides 140,000 ppm Recovery Chlorides 4600 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1639</u>	<u>1605</u>	<u>3246</u>	<u>C600</u>
(B) First Initial Flow Pressure	<u>32</u>	<u>21</u>	(depth) <u>3311'</u>	T-Started <u>0657</u>
(C) First Final Flow Pressure	<u>64</u>	<u>85</u>	PSI Recorder No. <u>10991</u>	T-Open <u>0822</u>
(D) Initial Shut-In Pressure	<u>1343</u>	<u>1351</u>	(depth) <u>3323'</u>	T-Pulled <u>1122</u>
(E) Second Initial Flow Pressure	<u>101</u>	<u>88</u>	PSI Recorder No. <u> </u>	T-Out <u>1245</u>
(F) Second Final Flow Pressure	<u>128</u>	<u>141</u>	(depth) <u> </u>	T-Off Location <u>2330</u>
(G) Final Shut-in Pressure	<u>1332</u>	<u>1342</u>	PSI Initial Opening <u>30</u>	Test <u> </u>
(Q) Final Hydrostatic Mud	<u>1576</u>	<u>1538</u>	PSI Initial Shut-in <u>60</u>	Jars <u> </u>
			Final Flow <u>30</u>	Safety Joint <u> </u>
			Final Shut-in <u>60</u>	Straddle <u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Tom Pierce

Our Representative Duke #2

Mileage

Elec. Rec.

Extra Packer

Sampler

Circ. Sub

TRILOBITE TESTING L.L.C.

OPERATOR : Gray Kingman co KS
 WELL NAME: Jon Kingman co KS
 LOCATION : 12 To 3780.00 ft
 INTERVAL : 3

DATE 10/30/199

KB 1389.00 ft TICKET NO: 12325 DST #2
 GR 1381.00 ft FORMATION: Miss.
 TD 3780.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA	Field	1	2	3	4	TIME DATA-----
Mins						
PF 30	10991	10991	3246			PF Fr. 1648 to 1718 hr
SI 60	R (Psi) 4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1718 to 1818 hr
SF 60	k (hrs) 12hr.	12hr.	elec.			SF Fr. 1818 to 1918 hr
FS 60	th (ft) 3777.0	3777.0	3764.0	0.0	0.0	FS Fr. 1918 to 2018 hr

	Field	1	2	3	4	
A. In. Hydro	1903.0	1907.0	1900.0	0.0	0.0	T STARTED 1458 hr
B. Fl. Flow	32.0	40.0	17.0	0.0	0.0	T ON BOTM 1645 hr
B1. Fl. Flow	32.0	40.0	23.0	0.0	0.0	T OPEN 1648 hr
C. Shut-in	927.0	946.0	951.0	0.0	0.0	T PULLED 2018 hr
D. Ft Flow	43.0	49.0	30.0	0.0	0.0	T OUT 2130 hr
E. nal Flow	43.0	49.0	46.0	0.0	0.0	
F. Shut-in	842.0	859.0	871.0	0.0	0.0	
G. inal Hydro	1892.0	1896.0	1860.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 2100.00 lbs
						Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 45000.00 lbs
						Initial Str Wt 41000.00 lbs
						Unseated Str Wt 41000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3748.00 ft

RECOVERY

Tot Fluid 110.00 ft of 0.00 ft in DC and 110.00 ft in DP
 2334.00 ft of Gas in pipe
 .50.00 ft of Oil and gas cut muddy water
 0.00 ft of 20% gas 5% oil 45% water 30% mud
 60.00 ft of Slight oil and gas cut muddy water
 0.00 ft of 28% gas 2% oil 65% water 5% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 80000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----	
Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	46.00 S/L
W.L.	10.00 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Daren L. Amerine
Co. Rep.	Tim Pierce
Contr.	Duke
Rig #	2
Unit #	no
Pump #	

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in
 34 secs.
 Initial Shut-in:
 Bled down for 1 1/2 mins. no blow
 back
 Final Flow:
 Strong blow bottom of bucket in
 15 secs.
 Final Shut-in:
 Bled down for 5 mins. no blow back.

MPLES:
 T TO:

Test Successful: Y

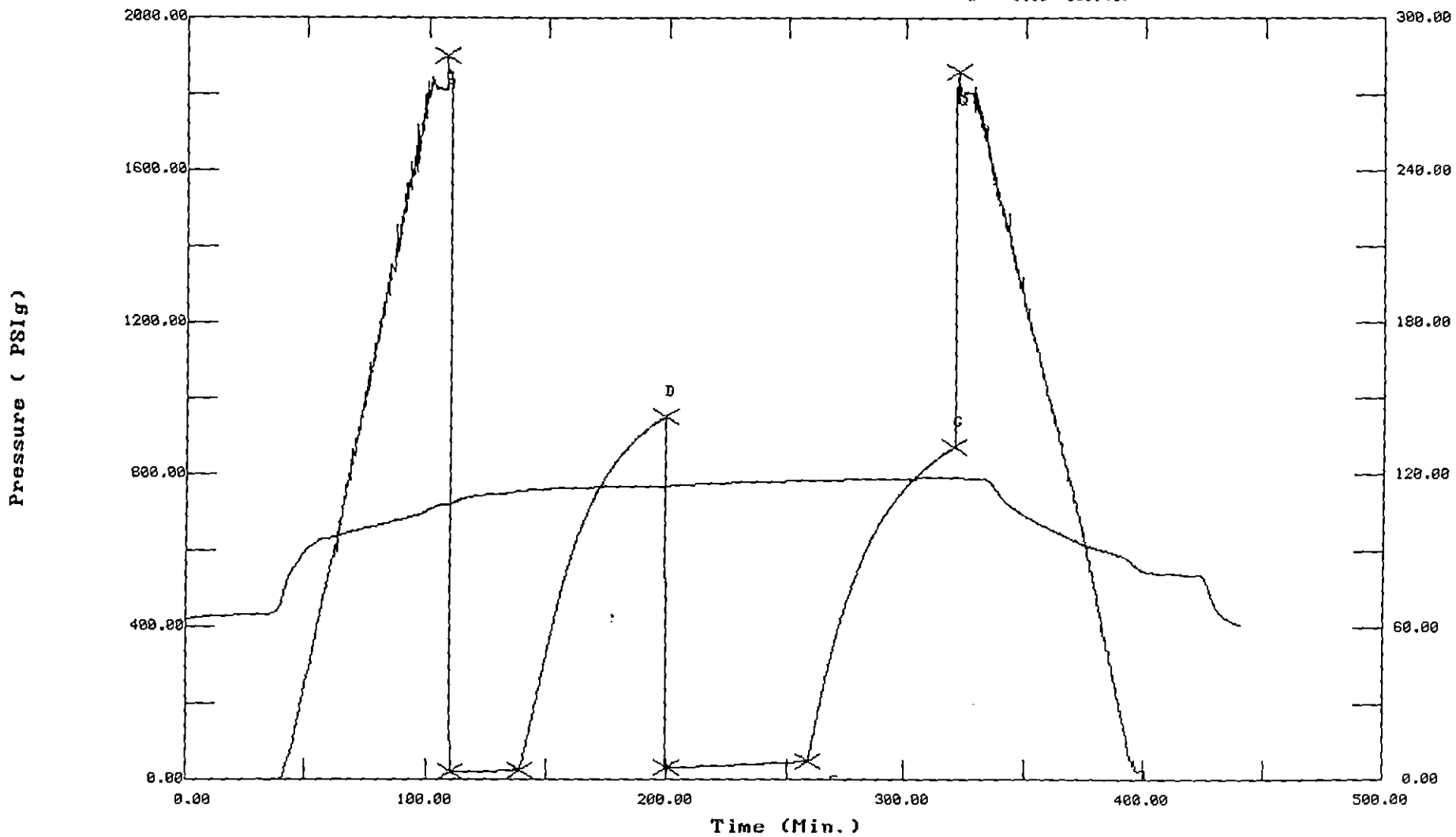
TEST HISTORY

Tk#12325 DST#2 Jones #1 Grave Drilling, inc.

Flag Points

t(Min.) P(PSig)

A:	0.00	1900.03
B:	0.00	17.09
C:	28.75	22.57
D:	60.00	951.38
E:	0.00	29.80
F:	59.00	46.27
G:	61.25	870.93
Q:	0.00	1859.59



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 12325

Test Ticket

Name & No. Jones #1 Test No. #2 Date 10/30/1999
 Company Grave Drilling Inc Zone Tested M.S.S.
 Address P.O. box 8250 Wichita, KS 67208-0250 Elevation 1389 KB 6381 GL
 Co. Rep / Geo. Tim Pierce Cont. Duffe #2 Est. Ft. of Pay Por. %
 Location: Sec. 12 Twp. 28^s Rge. 5^w Co. Tingman State KS
 No. of Copies 5 Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3758' - 3780' Initial Str Wt./Lbs. 41000 Unseated Str Wt./Lbs. 41000
 Anchor Length 22' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 75000
 Top Packer Depth 3753' Tool Weight 2100
 Bottom Packer Depth 3758' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 3780' Wt. Pipe Run N/A Drill Collar Run N/A
 Mud Wt. 9.3 LCM Vis. 46 WL 10.0 Drill Pipe Size 4 1/2 x H Ft. Run 3748'

Blow Description IF: Strong blow h.o.b in 34 sec.
IST: Bleed down for 1 1/2 mins. No blow back.
FE: Strong blow h.o.b in 15 sec.
FST: Bleed down for 5 mins

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>50'</u> Feet Of <u>0566 MW</u>	<u>2354</u>	<u>20% gas 5% oil</u>	<u>45% water 30% mud</u>
Rec. <u>60'</u> Feet Of <u>5066 MW</u>		<u>28% gas 2% oil</u>	<u>65% water 5% mud</u>
Rec. <u>2334</u> Feet Of <u>Gas IN Pipe</u>		<u>% gas % oil</u>	<u>% water % mud</u>
Rec. <u> </u> Feet Of <u> </u>		<u>% gas % oil</u>	<u>% water % mud</u>
Rec. <u> </u> Feet Of <u> </u>		<u>% gas % oil</u>	<u>% water % mud</u>

BHT 118° °F Gravity °API D@ °F Corrected Gravity °API
 RW .07 @ 82° °F Chlorides 80000 ppm Recovery Chlorides 2200 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1903</u>	<u>1900</u>	<u>3246</u>	<u>1400</u>
(B) First Initial Flow Pressure	<u>32</u>	<u>17</u>	(depth) <u>3764'</u>	T-Started <u>1457</u>
(C) First Final Flow Pressure	<u>32</u>	<u>23</u>	PSI Recorder No. <u>10991</u>	T-Open <u>1648</u>
(D) Initial Shut-in Pressure	<u>927</u>	<u>751</u>	(depth) <u>3777'</u>	T-Pulled <u>2018</u>
(E) Second Initial Flow Pressure	<u>43</u>	<u>30</u>	PSI Recorder No. <u> </u>	T-Out <u>2145</u>
(F) Second Final Flow Pressure	<u>43</u>	<u>46</u>	(depth) <u> </u>	T-Off Location <u>2230</u>
(G) Final Shut-in Pressure	<u>842</u>	<u>871</u>	PSI Initial Opening <u>30</u>	Test <u>✓</u>
(Q) Final Hydrostatic Mud	<u>1892</u>	<u>1860</u>	PSI Initial Shut-in <u>60</u>	Jars <u> </u>
			Final Flow <u>60</u>	Safety Joint <u> </u>
			Final Shut-in <u>60</u>	Straddle <u> </u>

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Approved By Tim Pierce
 Our Representative Darren J. Amersin

Circ. Sub
 Sampler
 Extra Packer
 Elec. Rec. ✓
 Mileage
 Other
 TOTAL PRICE €

TRILOBITE TESTING L.L.C.

OPERATOR : Grave Drilling, Inc. DATE 10/31/199
 WELL NAME: Jones #1 KB 1389.00 ft TICKET NO: 12326 DST #3
 LOCATION : 12-28s-5w Kingman co KS GR 1381.00 ft FORMATION: Miss.
 INTERVAL : 3780.00 To 3802.00 ft TD 3802.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	3246			PF Fr. 0538 to 0608 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 0608 to 0708 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0708 to 0808 hr
FS 60 Depth(ft)	3799.0	3799.0	3786.0	0.0	0.0	FS Fr. 0808 to 0908 hr

	Field	1	2	3	4	
A. Init Hydro	1914.0	1912.0	1916.0	0.0	0.0	T STARTED 0401 hr
B. First Flow	21.0	30.0	42.0	0.0	0.0	T ON BOTM 0535 hr
Bl. Final Flow	21.0	30.0	60.0	0.0	0.0	T OPEN 0538 hr
C. In Shut-in	1087.0	1092.0	1118.0	0.0	0.0	T PULLED 0908 hr
D. Init Flow	43.0	53.0	54.0	0.0	0.0	T OUT 1030 hr
E. Final Flow	53.0	63.0	96.0	0.0	0.0	
F. Fl Shut-in	1045.0	1043.0	1066.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1871.0	1858.0	1854.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 210.00 ft of 0.00 ft in DC and 210.00 ft in DP
 3569.00 ft of Gas in pipe
 30.00 ft of Oil and gas cut watery mud
 0.00 ft of 8% gas 34% oil 8% water 50% mud
 120.00 ft of Oil and gas cut water mud
 0.00 ft of 35% gas 35% oil 15% water 15% mud
 30.00 ft of Heavy oil and gas cut watery mud
 0.00 ft of 40% gas 40% oil 10% water 10% mud
 0.00 ft of
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

Unseated Str Wt 0.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 0.00 in
 D. Pipe ID 3.80 in
 D.C. Length 0.00 ft
 D.P. Length 3779.00 ft

BLOW DESCRIPTION

Strong blow

MUD DATA-----
 Mud Type Chemical
 Weight 9.30 lb/cf
 Vis. 45.00 S/L
 W.L. 10.00 in3
 F.C. 0.32 in
 Mud Drop N

ISI:Bled down for 5 mins.no blow back.

Amt. of fill 0.00 ft
 Btm. H. Temp. 117.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N

*F:Strong blow b.o.b in 10 sec.Gauge-gas

SI:Bled down for 10 mins.no

Tool Chased N
 Tester Darren L.Amerine
 Co. Rep. Tim Pierce
 Contr. Duke
 Rig #

MPLES: Caraway Analytical, 728 N. Roosevelt
 NT TO: Liberal, Ks.

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Jones #1

LOCATION : Sec.12 Twp.28s

TICKET No. 12326 D.S.T. No. 3 DATE 10/31/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 22

TOTAL TOOL 42

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands Single Total

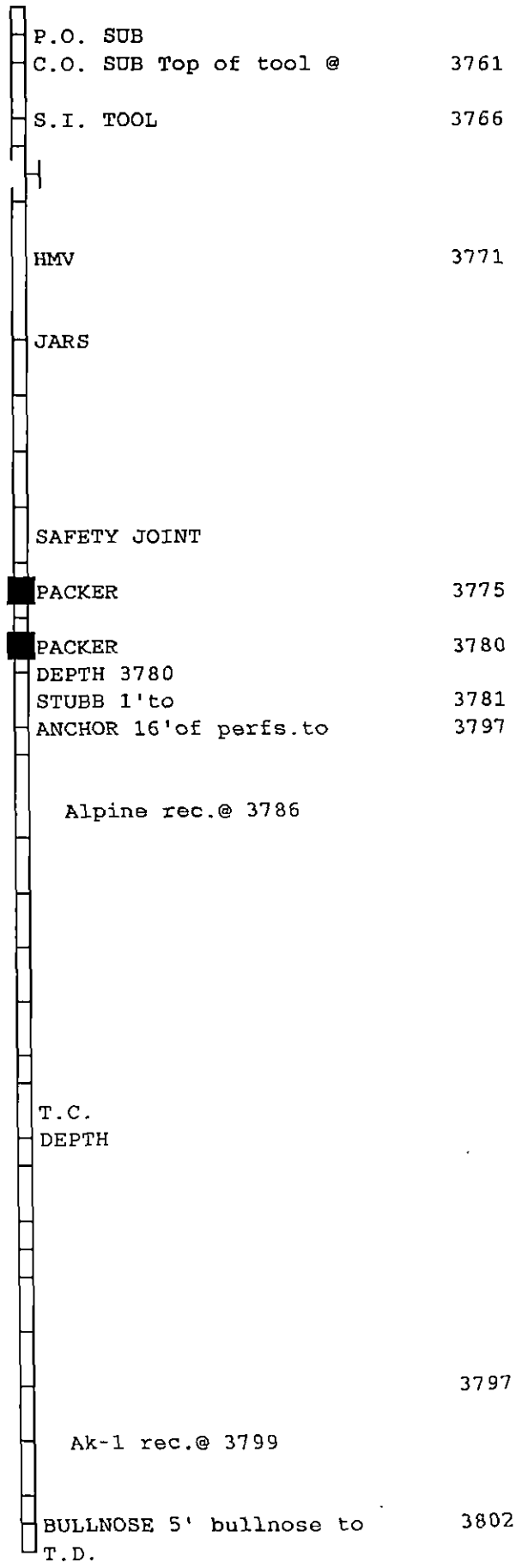
D.P. ABOVE TOOLS.Stands61 Single Total 3779

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3821

TOTAL DEPTH 3802

TOTAL DRILL PIPE ABOVE K.B. 19

REMARKS:



P.O. SUB

C.O. SUB Top of tool @ 3761

S.I. TOOL 3766

HMV 3771

JARS

SAFETY JOINT

PACKER 3775

PACKER 3780

DEPTH 3780

STUBB 1'to 3781

ANCHOR 16'of perfs.to 3797

Alpine rec.@ 3786

T.C.
DEPTH

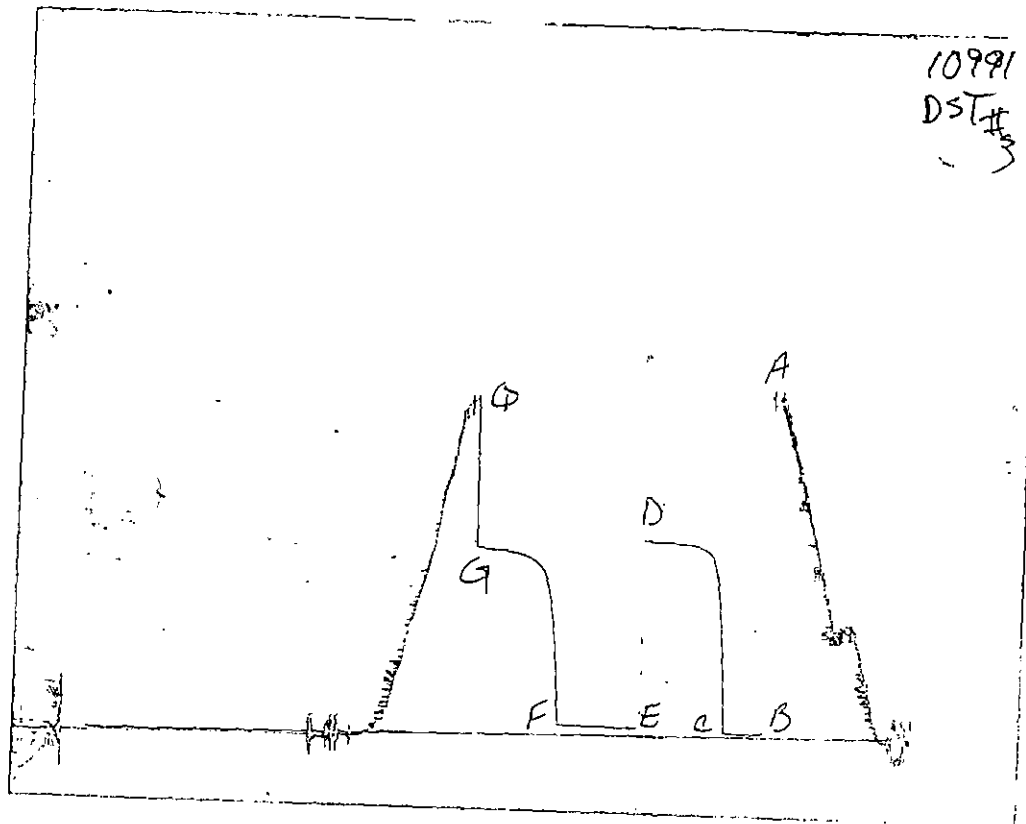
3797

Ak-1 rec.@ 3799

BULLNOSE 5' bullnose to 3802

T.D.

CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 12326

Test Ticket

Well Name & No. <u>Jones #1</u>		Test No. <u>#3</u>	Date <u>10/31/1999</u>
Company <u>Grave Drilling, Inc.</u>		Zone Tested <u>MISS</u>	
Address <u>P.O. box 8250 Wichita, KS 67208-0250</u>		Elevation <u>1389</u>	KB <u>1381</u> GL
Co. Rep / Geo. <u>Tim Pierce</u>	Cont. <u>Duke #2</u>	Est. Ft. of Pay	Por. %
Location: Sec. <u>12</u>	Twp. <u>28^E</u>	Rge. <u>5^W</u>	Co. <u>Kingman</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>-</u>	Turnkey (Y, N) <u>-</u>	Evaluation (Y, N) <u>-</u>

Interval Tested <u>3780' - 3802'</u>	Initial Str Wt./Lbs. <u>41000</u>	Unseated Str Wt./Lbs. <u>41000</u>
Anchor Length <u>22'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>15000</u>
Top Packer Depth <u>3725'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>3780'</u>	Hole Size — 7 7/8" <u>L</u>	Rubber Size — 6 3/4" <u>L</u>
Total Depth <u>3802'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>N/A</u>
Mud Wt. <u>9.3</u> LCM <u>0</u> Vis. <u>45</u> WL <u>10.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3729'</u>
Blow Description <u>TF: Strong blow b.o.b in 30 sec G.T.S in 11 min.</u>		
<u>EST: Blid down for 5 min no blow back</u>		
<u>FF: Strong blow b.o.b in 10 sec G.T.S in Range Gas</u>		
<u>FST Blid down for 10 min.</u>		

Recovery — Total Feet <u>210'</u>	GIP <u>3569</u>	Ft. in DC	Ft. in DP <u>210'</u>
Rec. <u>30'</u>	Feet Of <u>0' 60 W/M</u>	<u>8</u> %gas <u>34</u> %oil	<u>8</u> %water <u>50</u> %mud
Rec. <u>120'</u>	Feet Of <u>0' 60 W/M</u>	<u>35</u> %gas <u>35</u> %oil	<u>15</u> %water <u>15</u> %mud
Rec. <u>60'</u>	Feet Of <u>40' 60 W/M</u>	<u>40</u> %gas <u>40</u> %oil	<u>10</u> %water <u>10</u> %mud
Rec. _____	Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
BHT <u>117^o</u>	°F Gravity _____	°API D@ _____	°F Corrected Gravity _____ °API _____
RW _____ @ _____	°F Chlorides _____	ppm Recovery _____	Chlorides <u>2200</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>1914</u>	Alpine <u>1916</u>	PSI Recorder No. <u>3246</u>	T-On Location <u>0345 0345</u>
(B) First Initial Flow Pressure	<u>21</u>	<u>42</u>	PSI (depth) <u>3786'</u>	T-Started <u>0401</u>
(C) First Final Flow Pressure	<u>21</u>	<u>60</u>	PSI Recorder No. <u>10991</u>	T-Open <u>0538</u>
(D) Initial Shut-In Pressure	<u>1087</u>	<u>1118</u>	PSI (depth) <u>0908 3799'</u>	T-Pulled <u>0908</u>
(E) Second Initial Flow Pressure	<u>43</u>	<u>54</u>	PSI Recorder No. _____	T-Out <u>1030</u>
(F) Second Final Flow Pressure	<u>53</u>	<u>96</u>	PSI (depth) _____	T-Off Location <u>1130</u>
(G) Final Shut-in Pressure	<u>1045</u>	<u>1066</u>	PSI Initial Opening <u>30</u>	Test <u>L</u>
(Q) Final Hydrostatic Mud	<u>1871</u>	<u>1854</u>	PSI Initial Shut-in <u>60</u>	Jars _____
			Final Flow <u>60</u>	Safety Joint _____
			Final Shut-in <u>60</u>	Straddle _____

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Approved By Tim Pierce

Our Representative Darren J. Luning

Circ. Sub _____

Sampler _____

Extra Packer _____

Elec. Rec. L

Mileage _____

Other _____

TOTAL PRICE \$ _____

TRILOBITE TESTING L.L.C.

OPERATOR : Grave Drilling, Inc.

DATE 10/31/199

WELL NAME: Jones #1

KB 1389.00 ft

TICKET NO: 12327

DST #4

LOCATION : 12-28s-5w Kingman co KS

GR 1381.00 ft

FORMATION: Miss.

INTERVAL : 3802.00 To 3827.00 ft

TD 3827.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	3246			PF Fr. 1925 to 1955 hr
SI 60 Range (Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1955 to 2055 hr
SF 60 Clock (hrs)	12hr.	12hr.	elec.			SF Fr. 2055 to 2155 hr
FS 60 Depth (ft)	3824.0	3824.0	3808.0	0.0	0.0	FS Fr. 2155 to 2255 hr

	Field	1	2	3	4	
A. Init Hydro	1956.0	1943.0	1942.0	0.0	0.0	T STARTED 1730 hr
B. First Flow	32.0	38.0	42.0	0.0	0.0	T ON BOTM 1922 hr
B1. Final Flow	43.0	42.0	59.0	0.0	0.0	T OPEN 1925 hr
C. In Shut-in	1119.0	1121.0	1124.0	0.0	0.0	T PULLED 2255 hr
D. Init Flow	64.0	70.0	65.0	0.0	0.0	T OUT 0030 hr
E. Final Flow	85.0	87.0	98.0	0.0	0.0	
F. Fl Shut-in	1098.0	1002.0	1104.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1935.0	1934.0	1874.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 44000.00 lbs
						Initial Str Wt 41000.00 lbs
						Unseated Str Wt 41000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3813.00 ft

RECOVERY

Tot Fluid 220.00 ft of 0.00 ft in DC and 220.00 ft in DP
 3593.00 ft of Gas in pipe
 40.00 ft of Oil and gas cut mud 8% gas 26% oil 66% mud
 120.00 ft of Oil and gas cut mud
 0.00 ft of 33% gas 29% oil 8% water 30% mud
 55.00 ft of Heavy oil and gas cut mud
 0.00 ft of 60% gas 24% oil 6% water 10% mud
 5.00 ft of Water
 0.00 ft of

SALINITY 65000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in 45 secs.
 Initial Shut-in:
 Bled down for 2 mins. no blow back
 Final Flow:
 Strong blow bottom of bucket in 15 secs. gas to surface in 1 min. gauge gas
 Final Shut-in:
 Bled down for 5 mins. no blow back.

SAMPLES: Caraway Analytical, 728 N. Roosevelt
 SENT TO: Liberal, Ks.

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/cf
 Vis. 46.00 S/L
 W.L. 10.00 in3
 F.C. 0.32 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 119.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Darren L. Amerine
 Co. Rep. Tim Pierce
 Contr. Duke
 Rig # 2
 Unit # none
 Pump T. no

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Jones #1

LOCATION : Sec.12 Twp.28s Rge.5w

TICKET No. 12327 D.S.T. No. 4 DATE 10/31/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 25

TOTAL TOOL 45

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D:P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands62 Single 1 Total 3810

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3855

TOTAL DEPTH 3827

TOTAL DRILL PIPE ABOVE K.B. 28

REMARKS:

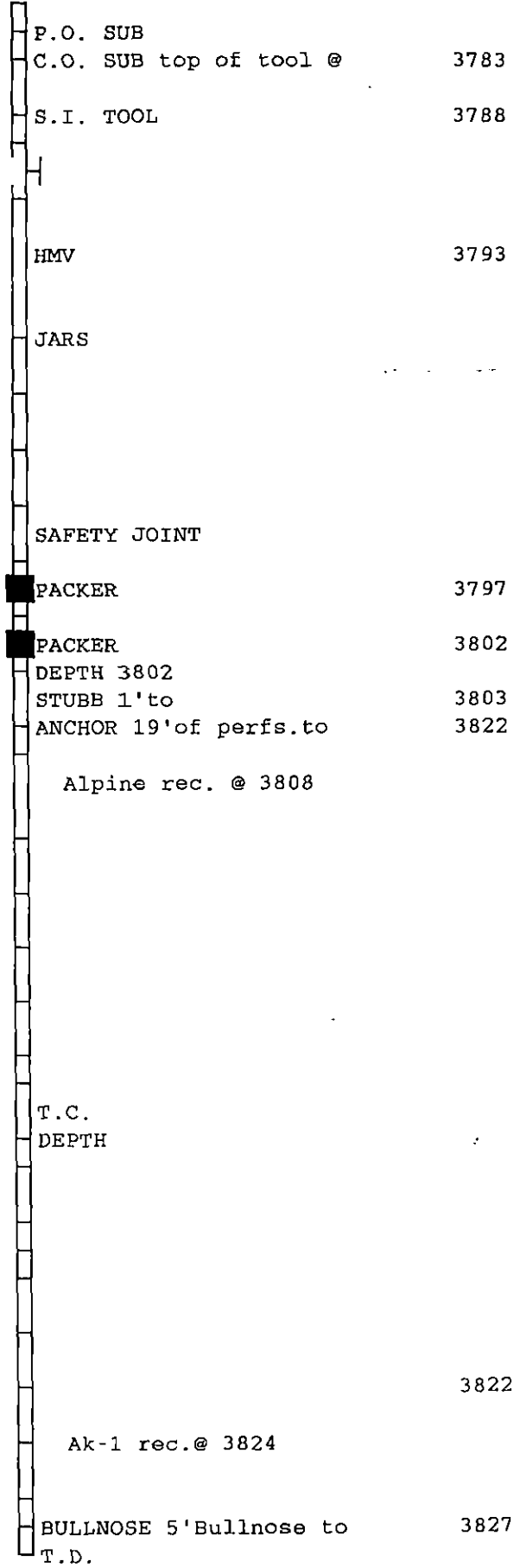
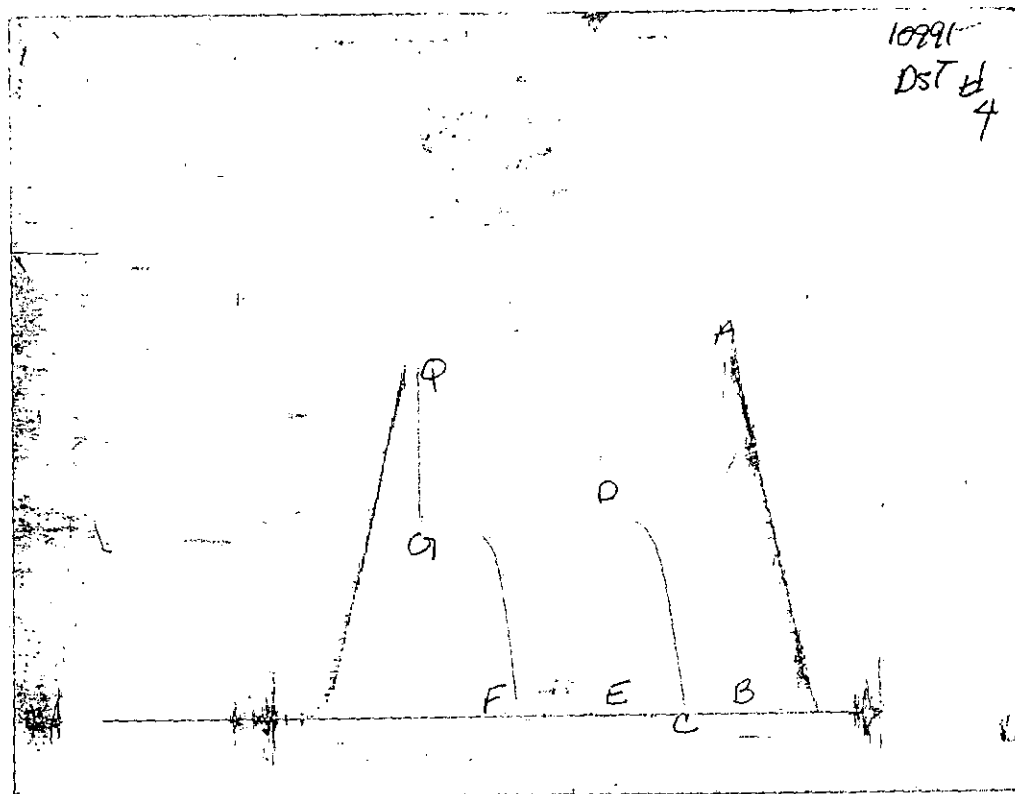


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 12327

Test Ticket

Well Name & No. Jones #1 Test No. #4 Date 10/31/1999
 Company Grave Drilling, Inc. Zone Tested Miss
 Address PO box 8250 Wichita, KS 67208-0250 Elevation 1389 KB 1381 GL
 Co. Rep / Geo. Tim Purice Cont. Duke #2 Est. Ft. of Pay Por. %
 Location: Sec. 12 Twp. 285 Rge. 5 W Co. Kingman State KS
 No. of Copies 5 Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3802' - 3827' Initial Str Wt./Lbs. 41,000 Unseated Str Wt./Lbs. 44,000
 Anchor Length 25" Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 44,000
 Top Packer Depth 3797' Tool Weight 2100
 Bottom Packer Depth 3802' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 3827 Wt. Pipe Run N/A Drill Collar Run N/A
 Mud Wt. 9.2 LCM 0 Vis. 46 WL 10.0 Drill Pipe Size 4 1/2 XH Ft. Run 3819

Blow Description 27' Strong blow b.o.b. in 4.5 sec.
ISI: Bled down for 2 min no blowback.
FF: Strong blow b.o.b. in 15 sec GTS in 1 min Gauge Ges
E.S.I: Bled down for 5 min

Recovery — Total Feet 220' GIP 3593' Ft. in DC Ft. in DP 220'
 Rec. 40 Feet Of OIL AND GAS CUT MUD 8% gas 26% oil %water 66% mud
 Rec. 120 Feet Of " " " 33% gas 29% oil 8% water 30% mud
 Rec. 55' Feet Of HEAVY OIL & GAS CUT MUD 60% gas 24% oil 6% water 10% mud
 Rec. 3593 Feet Of Gas in pipe %gas 8% %oil %water %mud
 Rec. 5' Feet Of Water @ Tool %gas %oil %water %mud
 BHT 119 °F Gravity °API D@ °F Corrected Gravity °API
 RW 0.1 @ 85° °F Chlorides 65,000 ppm Recovery Chlorides 4,300 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	1956	1942	3246	1900
(B) First Initial Flow Pressure	32	42	(depth) 3808	T-Started 1730
(C) First Final Flow Pressure	43	59	PSI Recorder No. 10991	T-Open 1925
(D) Initial Shut-In Pressure	1119	1124	(depth) 3824'	T-Pulled 2255
(E) Second Initial Flow Pressure	64	65	PSI Recorder No. <u> </u>	T-Out 0030
(F) Second Final Flow Pressure	85	98	(depth) <u> </u>	T-Off Location 0145
(G) Final Shut-in Pressure	1098	1104	PSI Initial Opening 50	Test <u>✓</u>
(Q) Final Hydrostatic Mud	1935	1874	PSI Initial Shut-in 60	Jars <u> </u>
			Final Flow 60	Safety Joint <u> </u>
			Final Shut-in 60	Straddle <u> </u>
				Circ. Sub <u> </u>
				Sampler <u> </u>
				Extra Packer <u> </u>
				Elec. Rec. <u>✓</u>
				Mileage <u> </u>
				Other <u> </u>
				TOTAL PRICE \$ <u> </u>

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Approved By Tim Purice
 Our Representative Dawn J. Amelore