

185-23052-0000

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

ORIGINAL

Operator: License # 31747  
Name: Wanita M. Brooks  
Address: 2449 S.W. 90th  
City/State/Zip: Okla. City, OK 73159  
Purchaser: NCRA  
Operator Contact Person: Lee Brooks  
Phone ( 405 ) 692-1671  
Contractor Name: Discovery Drilling, Inc.  
License: 31548  
Wellsite Geologist: Bill Sladek

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

Workover/Reentry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD  
Plug Back \_\_\_\_\_ PBTD \_\_\_\_\_  
Comingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
Other (SWD or Inj?) Docket No. \_\_\_\_\_  
8-9-97 8-17-97 9-7-97  
Well Date Date Reached TD Completion Date

API NO. 15- \_\_\_\_\_  
County Stafford  
- E/2 E/2NE/4 Sec. 12 Twp. 21 Rge. 12  E  
1320 Feet from S/W (circle one) Line of Section  
330 Feet from E/W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner: NE, SE, NW or SW (circle one)  
Lease Name Hall Well # 1  
Field Name Sandago  
Producing Formation Arbuckle  
Elevation: Ground +1813 KB +1821  
Total Depth 3555 PBTD \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at 223 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 225  
feet depth to 0 w/ 190 sx cnt.

Drilling Fluid Management Plan Att. 1 6-26-98 U.C.  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume 320 bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name Bob's Oil Service  
Lease Name Sieker License No. 30610  
Quarter 35 Sec. 19 S Rng. 11  E/W  
County Barton Docket No. D-26-497

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 2 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 Wanita M. Brooks  
Title \_\_\_\_\_ Date 6-7-98  
Described and sworn to before me this 7 day of June, 1998.  
Notary Public Andria Jean Childers  
Notary Commission Expires Feb 24, 2002

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

Operator Name Wanita M. Brooks Lease Name Hall Well # 1  
 c. 12 Twp. 21 Rge. 12  East  West  
 County Stafford

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 Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No	Lansing/KC	3171	-1349
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Sp	3426	-1605
Log at All E.Logs Run: Dual Induct./ GR/SR Comp Density/GR/Cal		Arb	3459	-1637

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	unknown	223		190	
Long string	7 7/8	4 1/2	10 1/2	3550		175	

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
4	3463-65	300 gal Mud acid	3463
4	3467-67	1500 gal 15% A	3475
4	3473-75		

USING RECORD Size 2" Set At 3513 Packer At none Liner Run  Yes  No

Date of First, Resumed Production, SMD or Inj. \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	<u>7</u>		<u>7</u>		<u>40%</u>

Disposition of Gas: METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_  
 Vented  Sold  Used on Lease (If vented, submit ACO-18.)

# Drill Stem Tests on Hall #1

E/2 E/2 NE/4 12 T21-S R12W  
S. Ford Co., Kansas

15-185-23052-0000

Int. Tested      Fluid Recovered

#1      3158-3210      35' mud

ORIGINAL

Hydro pressures      1636 → 1486  
Flow pressures      29 → 39 - 29 → 39  
Bottom hole pressures      39 → 39

#2      3231-3270      216 Oil + 0.6 Oil + 400' Gas

Hydro Pressures      1584 → 1531  
Flow Pressures      85 → 85 - 138 → 138  
Bottom hole pressure      941 → 962

#3      3407 - 3463      95' Oil cut mud + 358' Gas

Hydro. Pressure      1763 → 1712  
Flow Pressure      61 → 101 - 51 → 71  
Bottom hole pressure      709 → 648

#4      3463 - 3470      95' Oil + Ocm. + 477 Gas

Hydro Pressure      1766 → 1745  
Flow " "      64 → 117 - 53 → 53  
Bottom hole " "      671 → 650

TELEPHONE:

AREA CODE 913 483-2627  
AREA CODE 913 483-3887

# ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31  
RUSSELL, KANSAS 67665

Federal Tax I.D.# 48-0727860

TO: Discovery Drilling Co.  
P. O. Box 763  
Hays, KS 67601

INVOICE NO. 75772

PURCHASE ORDER NO. \_\_\_\_\_

LEASE NAME Hall #1

DATE 8-9-97

## ORIGINAL

SERVICE AND MATERIALS AS FOLLOWS:

Common 114 sks @\$6.35	\$723.90	
Pozmix 76 sks @\$3.25	247.00	
GE1 3 sks @\$9.50	28.50	
Chloride 6 sks @\$28.00	<u>168.00</u>	\$1,167.40

Handling 190 sks @\$1.05	199.50	
Mileage (17) @\$0.04¢ per sk per mi	129.20	
Surface	470.00	
M1 @\$2.85 pmp trk chg	49.45	
1 plug	<u>45.00</u>	

Total

892.15

\$2,059.55  
**RECEIVED**

STATE COOPERATION COMMISSION

**JUN 26 1998**

CONSERVATION DIVISION  
Wichita, Kansas

*Paid  
8/25/97  
CK #2861*

*Thank You!*

If Account CURRENT a  
Discount of \$ 308.95  
will be Allowed ONLY if  
Paid Within 30 Days from  
Date of Invoice.

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

# ALLIED CEMENTING CO., INC. 5757

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

SERVICE POINT:  
*Great Bend, Ks*

DATE <b>8-9-97</b>	SEC <b>12</b>	TWP. <b>21</b>	RANGE <b>12</b>	CALLED OUT <b>4:00</b>	ON LOCATION <b>7:00</b>	JOB START <b>9:00 AM</b>	JOB FINISH <b>9:45 P</b>
LEASE <b>Hall</b>		WELL # <b>1</b>		LOCATION <b>Winwood sec to co. line 1/2 E 150.</b>		COUNTY <b>Stafford</b>	STATE <b>KS</b>

OLD OR NEW (Circle one)

CONTRACTOR **Discovery Drilling Co.**

TYPE OF JOB **8 5/8" surface casing**

HOLE SIZE **12 1/4"** T.D. **225'**

CASING SIZE **8 5/8"** DEPTH **223'**

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

OWNER **W.M. Brooks**

CEMENT

AMOUNT ORDERED **190 60/40 3% cc 2% gel**

COMMON \_\_\_\_\_ @ \_\_\_\_\_

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

**EQUIPMENT**

PUMP TRUCK # **120** CEMENTER **Diane Smith**

HELPER **Kerrin Rose**

BULK TRUCK # **311** DRIVER **Kerry Rose**

BULK TRUCK # \_\_\_\_\_ DRIVER \_\_\_\_\_

ORIGINAL

TOTAL \_\_\_\_\_

**REMARKS:**

*Brake circulation @ rig pump - mixed 190 sacks, 60/40 3% cc 2% gel. Displaced @ 13 barrels water. Cement did circulate.*

**SERVICE**

DEPTH OF JOB **223'**

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

PLUG **8 5/8" TWP.** \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

CHARGE TO: **Discovery Drilling Co.**

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL

CUSTOMER COPY

INVOICE



HALLIBURTON ENERGY SERVICES, INC.

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

INVOICE NO. 307895 DATE 08/17/1997

Table with columns: WELL/LEASE NO./PROJECT, WELL/PROJECT/LOCATION, STATE, OWNER, SERVICE/LOCATION, CONTRACTOR, JOB/PURPOSE, TICKET/DATE, ACCT. NO., CUSTOMER AGENT, VENDOR NO., CUSTOMER P.O. NUMBER, SHIPPED VIA, FILE NO.

\* PD BY CK# 3014 \$5,632.08\*

LEE OR WANITA BROOKS 2429 SW 90TH ST OKLAHOMA CITY, OK 73159

DIRECT CORRESPONDENCE TO:

1102 E 6TH HAYS KS 67801 913-625-3431

ORIGINAL

Main invoice table with columns: REFERENCE NO., DESCRIPTION, QUANTITY, UOM, UNIT PRICE, AMOUNT. Includes items like MILEAGE CEMENTING ROUND TRIP, CEMENTING CASING, CASING SWIVEL, SALT, SUPER FLUSH, etc.

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

TERMS: If Customer does not have an approved open account with Halliburton, all amounts are payable in cash at the time of performance of services or delivery of equipment, products or materials.

\*\*\* CASH JOB \*\*\*



# JOB LOG 4239-5

TICKET #	375	TICKET DATE	11/17/75
BDA / STATE	KS	COUNTY	Wood
PSL DEPARTMENT			
CUSTOMER REP / PHONE			
API / UMI #			
JOB PURPOSE CODE			

REGION	North America	NW/COUNTRY	
MBU/ID / EMP #		EMPLOYEE NAME	DL SELL
LOCATION		COMPANY	
TICKET AMOUNT		WELL TYPE	1
WELL LOCATION		DEPARTMENT	
LEASE / WELL #		SEC / TWP / RNG	

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESS. (psl)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0700							Called Out
	0900							On Loc w/Trks Safety mt
								Run Csg Cent 1 3 7 11
								Drop Ball Csg on Bottom
								Break Circ w/Rig
								Rig up Howco
	1203	6	20			200		Pump Salt Flush
	1206	6	3			220		H2O Spacer
	1209	6	12			250		pump Super Flush
	1211	6	3			250		H2O Spacer
	1214							Plug R.H. + M.H. w/Lead Cmt 2500's B.T.
	1222	7	11.9			300		St Mixing head Cmt @ 12.7 ppg
	1224	7				250		St Mixing Tail Cmt @ 31.7 ppg
	1230	0	31.3			0		Finish mixing Cmt
	1231	5	15					Close Int + wash pump + line
								Release Top Swiper Plug
	1233	8				100		St Disp w/H2O
	1239	7	40			350		Lifting Cmt 40 Bbl's Out
	1242	0	56.2			1200		Plug Down
								Rotated During Job Good Circ During Job
	1243							Release psi float Held
								Job Complete Thank you Scotty

ORIGINAL

SIDE ONE

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

Operator: License # 31747  
Name Wanita M. Brooks  
Address 2149 SW 90th  
City/State/Zip OK City, OK 73159

Purchaser N.C.R.A.

Operator Contact Person Lee Brooks  
Phone 405-692-1671

Contractor: License # 31548  
Name Discovery Drilling, Inc

Wellsite Geologist Bill Siedek  
Phone 316-945-8722

Designate Type of Completion

New Well     Re-Entry     Workover  
 Oil             SWD             Temp Abd  
 Gas             Inj             Delayed Comp.  
 Dry             Other (Core, Water Supply etc.)

If **OWWO**: old well info as follows:

Operator .....  
Well Name .....  
Comp. Date ..... Old Total Depth.....

WELL HISTORY

Drilling Method:

Mud Rotary     Air Rotary     Cable

8-9-97    8-17-97    9-7-97  
Spud Date    Date Reached TD    Completion Date

3555  
Total Depth    PBTD

Amount of Surface Pipe Set and Cemented at 225 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated  
from.....feet depth to.....w/.....SX cmt  
Cement Company Name Allied Cementing Co  
Invoice # Turn Key By Discovery Drilling

API NO. 15- 185-23052  
County St. Edward  
E/2 E/2 NE/4 Sec. 12 Twp. 21S Rge. 12 East West

3960 Ft North from Southeast Corner of Section  
330 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

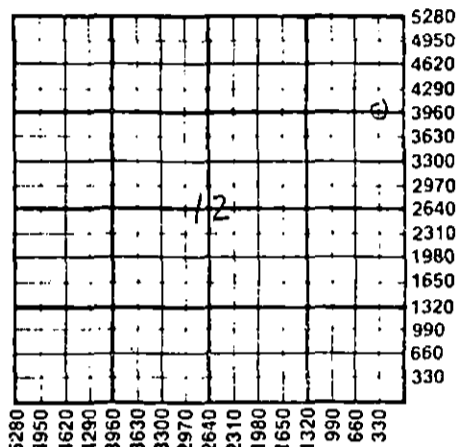
Lease Name H-11 Well # 1

Field Name Sandago

Producing Formation Arbuckle

Elevation: Ground +1813 KB 1821

Section Plat



(20)

WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket # 8-2-19-49-7  Repressuring

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit #.....

Groundwater.....Ft North from Southeast Corner  
(Well) .....Ft West from Southeast Corner of  
Sec Twp Rge East West

Surface Water.....Ft North from Southeast Corner  
(Stream, pond etc).....Ft West from Southeast Corner  
Sec Twp Rge East West

Other (explain).....  
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log shall be attached with this form. 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..... Date .....

Subscribed and sworn to before me this .....day of.....  
19.....

Notary Public.....

Date Commission Expires.....

K.C.C. OFFICE USE ONLY

F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
Distribution  
KCC SWD/Rep NGPA  
KGS Plug Other  
(Specify)

Sec. .... Twp. .... Rge. ....



Operator Name Wanita M. Brooks Lease Name H211 Well # 1

Sec. 12 Twp. 215 Rge. 12  East  West County Stafford

WELL LOG

ORIGINAL

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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

31711 Lams - LM - WHT CHK TO BRN, GRY  
 Fxln SC Foss. Pac P vis SET IT BRN STM  
 Fodor  
3426 SP - sd - WHT & GRN vnd TITE TO FRIBLE  
 Fodor res TR Fr oil GSY  
3459 Arb - Dolo WHT AT FGRN TO GRN  
 Good odor + set sht Fr oil some chT  
 TEST #1 35' D.M 22-29 TO 29-39  
 1292-1111 3153-3210  
 TEST #2 216' fluid 411' G23-30 MC 0  
 62' OC mdy wtr 85-94 3-  
 138-962  
 Temp 106  
 3226-3270 30-30-60-60  
 TEST #3 3407-63 30-30-60-60 Gd Blow  
 Temp 110 95' GC oily mud 358' Gas 1FP 61-101  
 FFP 51-71 709-748  
 TEST #4 3463-70 70-30-30-60 Gd Blk 477 G21  
 Temp 126 65' oil 30' GC mdy oil 1FP 64-117  
 FFP 53-53 671-654

Name	Top	Bottom
Lams	3171	3413
SP	3426	
Arb	3459	

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 Long String	12 1/4	8 7/8	Unknown	223		190	
	7 7/8	4 1/2	10.5	3550		175	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	3463-65	300 gal Mud Acid	3463
4	3467-69	17500 157A	3467
4	3473-75		3473

TUBING RECORD				
Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2 1/2	3513	None		

Date of First Production		Producing Method			
		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....			
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	12 Bbls	MCF	7 Bbls	CFPB	40

METHOD OF COMPLETION Production Interval

Disposition of gas:  Vented  Open Hole  Perforation 3460-70  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed .....  
 Commingled .....

ORIGINAL

WELL NAME:  
COMPANY:  
LOCATION:

Hall #1  
Geronimo Oil, Inc  
12-21S-12W  
Stafford County Kansas  
08/18/97

15-185-23052

TRILOBITE TESTING L.L.C.

OPERATOR : Geronimo Oil, Inc  
 WELL NAME: Hall #1  
 LOCATION : 12-21S-12W Stafford KS  
 INTERVAL : 3158.00 To 3210.00 ft

DATE 8/14/97  
 KB 1921.00 ft TICKET NO: 10413 DST #1  
 GR 0.00 ft FORMATION: Lansing KC "A-B"  
 TD 3210.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13754	13754	13248			PF Fr. 0015 to 0045 hr
SI 30	Range(Psi )	4000.0	4000.0	4500.0	0.0	0.0	IS Fr. 0045 to 0115 hr
SF 30	Clock(hrs)	12 HR	12 HR	12 HR			SF Fr. 0115 to 0145 hr
FS 30	Depth(ft )	3160.0	3160.0	3207.0	0.0	0.0	FS Fr. 0145 to 0215 hr

	Field	1	2	3	4	
A. Init Hydro	1636.0	1565.0	1542.0	0.0	0.0	T STARTED 2345 hr
B. First Flow	29.0	30.0	123.0	0.0	0.0	T ON BOTM 0000 hr
B1. Final Flow	29.0	30.0	153.0	0.0	0.0	T OPEN 0015 hr
C. In Shut-in	39.0	62.0	101.0	0.0	0.0	T PULLED 0215 hr
D. Init Flow	29.0	42.0	96.0	0.0	0.0	T OUT 0330 hr
E. Final Flow	29.0	45.0	118.0	0.0	0.0	
F. Fl Shut-in	39.0	47.0	175.0	0.0	0.0	
G. Final Hydro	1486.0	1495.0	1422.0	0.0	0.0	
Inside/Outside	I	I	O			

RECOVERY

Tot Fluid 35.00 ft of 30.00 ft in DC and 5.00 ft in DP  
 35.00 ft of Drilling Mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

TOOL DATA-----  
 Tool Wt. 1000.00 lbs  
 Wt Set On Packer 30000.00 lbs  
 Wt Pulled Loose 45000.00 lbs  
 Initial Str Wt 30000.00 lbs  
 Unseated Str Wt 30000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.88 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.80 in  
 D.C. Length 30.00 ft  
 D.P. Length 3108.00 ft

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

BLOW DESCRIPTION

Initial Flow:  
 Slid tool 12' to bottom - Weak blow surging - died in 20 mins - flushed tool - no help

Final Flow:  
 No blow - flushed tool - no help

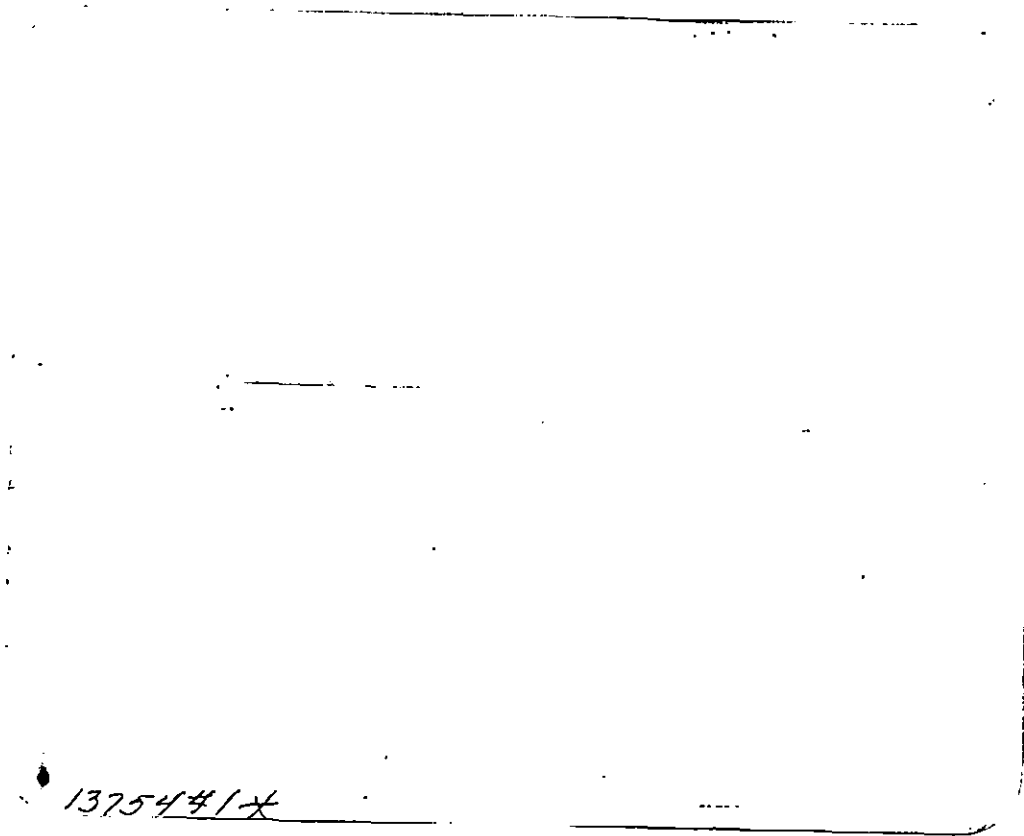
MUD DATA-----  
 Mud Type Chemical  
 Weight 9.10 lb/cf  
 Vis. 45.00 S/L  
 W.L. 9.60 in3  
 F.C. 0.00 in  
 Mud Drop

Amt. of fill 0.00 ft  
 Btm. H. Temp. 100.00 F  
 Hole Condition  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out  
 Tool Chased  
 Tester Dan Bangle  
 Co. Rep. Bill Sladek  
 Contr. Discovery  
 Rig # 1  
 Unit #  
 Pump T.

SAMPLES:  
 SENT TO:

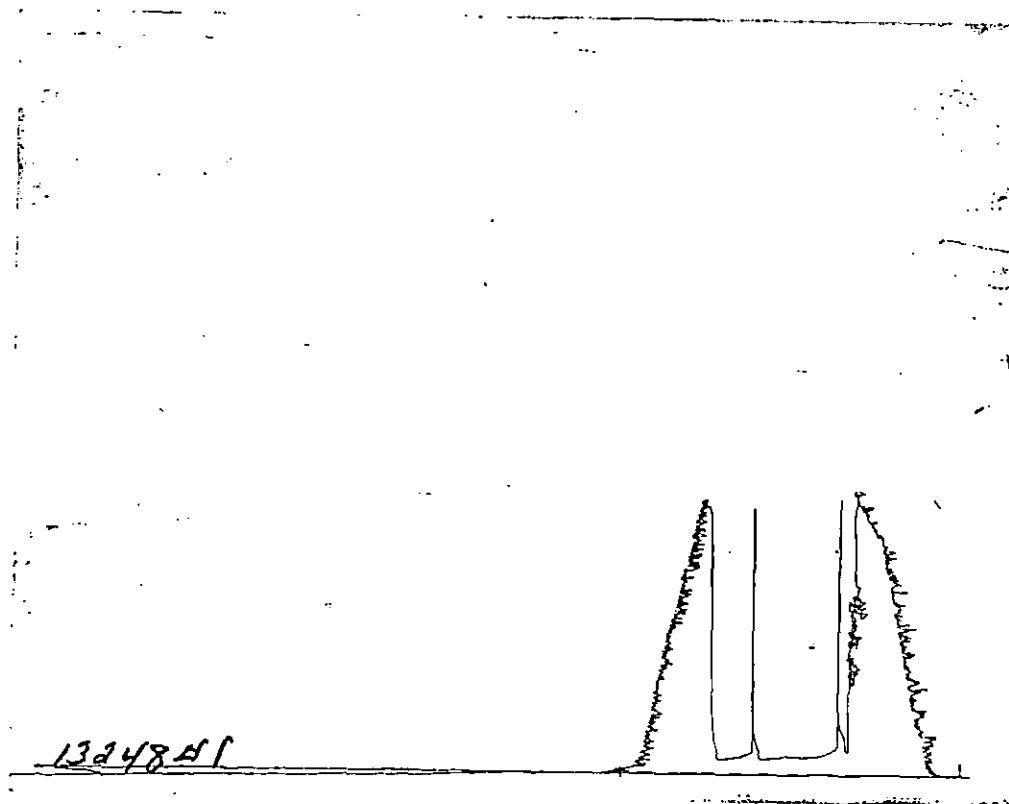
Test Successful: Y

CHART PAGE



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

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

## Test Ticket

No 10413

Well Name & No. <u>Hall #1</u>	Test No. <u>1</u>	Date <u>8-14-97</u>
Company <u>Geronimo Oil, Inc</u>	Zone Tested <u>'A-B'</u>	<u>LKC</u>
Address <u>2449 S.W. 90th, OKLA CITY, OKLA 73159</u>	Elevation <u>1821</u>	KB _____ GL _____
Co. Rep / Geo. <u>Bill Slade K</u>	Cont. <u>Discovery #1</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>12</u>	Twp. <u>21</u>	Rge. <u>12</u> Co. <u>STAFFORD</u> State <u>KS</u>
No. of Copies <u>3</u>	Distribution Sheet (Y, N) _____	Turnkey (Y, N) <u>Y</u> Evaluation (Y, N) _____

Interval Tested <u>3158 - 3210</u>	Initial Str Wt./Lbs. <u>30,000</u>	Unseated Str Wt./Lbs. <u>30,000</u>
Anchor Length <u>52</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>45,000</u>
Top Packer Depth <u>3153</u>	Tool Weight <u>1000</u>	
Bottom Packer Depth <u>3158</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3210</u>	Wt. Pipe Run _____	Drill Collar Run <u>30</u>
Mud Wt. <u>9.1</u> LCM <u>1/4#</u> Vis. <u>42</u> WL <u>9.6</u>	Drill Pipe Size <u>4.5 X H</u>	Ft. Run <u>3108</u>
Blow Description <u>Slid Tool 12' To bottom - weak blow surging</u> <u>died in 20 min. flushed Tool - No help</u> <u>F.F. No blow - flushed Tool - No help</u>		

Recovery — Total Feet <u>35</u>	GIP _____	Ft. in DC <u>30</u>	Ft. in DP <u>5</u>	
Rec. <u>35</u> Feet Of <u>D.M.</u>	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____

BHT 100 °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud <u>1636</u>	PSI	Recorder No. <u>13754</u>	T-Started <u>28:45</u>
(B) First Initial Flow Pressure <u>29</u>	PSI	(depth) <u>3160</u>	T-Open <u>00:15</u>
(C) First Final Flow Pressure <u>29</u>	PSI	Recorder No. <u>13248</u>	T-Pulled <u>02:15</u>
(D) Initial Shut-in Pressure <u>39</u>	PSI	(depth) <u>3207</u>	T-Out <u>03:30</u>
(E) Second Initial Flow Pressure <u>29</u>	PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>29</u>	PSI	(depth) _____	
(G) Final Shut-in Pressure <u>39</u>	PSI	Initial Opening <u>30</u>	Test _____
(H) Final Hydrostatic Mud <u>1486</u>	PSI	Initial Shut-in <u>30</u>	Jars _____
		Final Flow <u>30</u>	Safety Joint _____
		Final Shut-in <u>30</u>	Straddle _____
			Circ. Sub _____
			Sampler _____
			Extra Packer _____
			Elect. Rec. _____
			Other _____

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Approved By \_\_\_\_\_  
Our Representative Dan Sample

TOTAL PRICE \$

TRILOBITE TESTING L.L.C.

OPERATOR : Geronimo Oil, Inc  
 WELL NAME: Hall #1  
 LOCATION : 12-21S-12W Stafford KS  
 INTERVAL : 3231.00 To 3270.00 ft

DATE 8/14/97  
 KB 1821.00 ft TICKET NO: 10414 DST #2  
 GR 0.00 ft FORMATION: Lansing KC "G"  
 TD 3270.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13248	13248	13754			PF Fr. 1650 to 1720 hr
SI 30 Range(Psi )	4000.0	4000.0	4000.0	0.0	0.0	IS Fr. 1720 to 1750 hr
SF 60 Clock(hrs)	12 HR	12 HR	12 HR			SF Fr. 1750 to 1850 hr
FS 60 Depth(ft )	3267.0	3267.0	3237.0	0.0	0.0	FS Fr. 1850 to 1950 hr

	Field	1	2	3	4	
A. Init Hydro	1584.0	1589.0	0.0	0.0	0.0	T STARTED 1550 hr
B. First Flow	85.0	121.0	0.0	0.0	0.0	T ON BOTM 1640 hr
Bl. Final Flow	85.0	214.0	0.0	0.0	0.0	T OPEN 1650 hr
C. In Shut-in	941.0	923.0	0.0	0.0	0.0	T PULLED 1950 hr
D. Init Flow	138.0	175.0	0.0	0.0	0.0	T OUT 2130 hr
E. Final Flow	138.0	141.0	0.0	0.0	0.0	
F. Fl Shut-in	962.0	973.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1531.0	1523.0	0.0	0.0	0.0	Tool Wt. 1000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 40000.00 lbs
						Initial Str Wt 30000.00 lbs
						Unseated Str Wt 30000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 3181.00 ft

RECOVERY

Tot Fluid 216.00 ft of 30.00 ft in DC and 186.00 ft in DP  
 30.00 ft of Mud Cut Oil  
 0.00 ft of 20%mud 80%oil  
 62.00 ft of Slightly Oil Cut Watery Mud  
 0.00 ft of 5%oil 25%water 70%mud  
 124.00 ft of Mud Cut Water  
 0.00 ft of 10%mud 90%water  
 0.00 ft of  
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:  
 Weak building to strong blow - bottom  
 of bucket in 20 mins

Final Flow:  
 Weak building to strong blow - bottom  
 of bucket in 30 mins

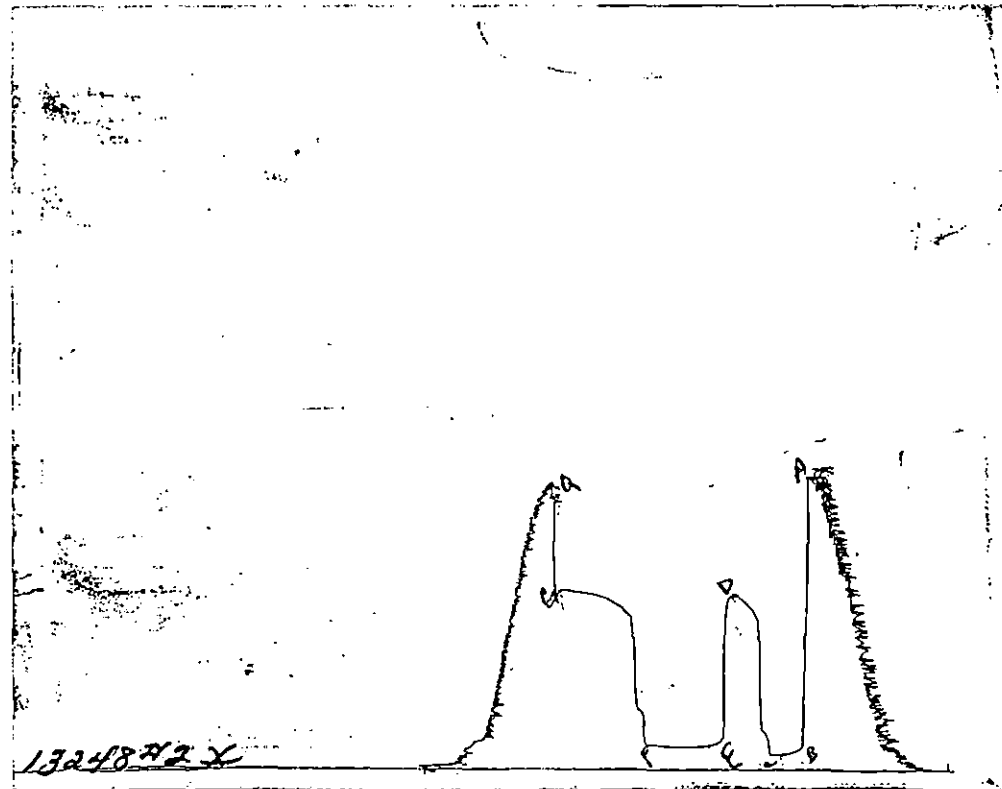
SAMPLES:  
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	51.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	106.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Dan Bangle
Co. Rep.	Bill Sladek
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

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

## Test Ticket

No 10414

Well Name & No.	<u>Hall #1</u>	Test No.	<u>2</u>	Date	<u>8-14-97</u>				
Company	<u>Geronimo Oil, Inc.</u>	Zone Tested	<u>G</u>	<u>LKC</u>					
Address		Elevation	<u>1821</u>	KB	<u>GL</u>				
Co. Rep / Geo.	<u>Bill Sladek</u>	Cont.	<u>Discovery #1</u>	Est. Ft. of Pay	<u>Por.</u> %				
Location: Sec.	<u>12</u>	Twp.	<u>21</u>	Rge.	<u>12</u>	Co.	<u>Stafford</u>	State	<u>Ks</u>
No. of Copies	<u>3</u>	Distribution Sheet (Y, N)		Turnkey (Y, N)	<u>Y</u>	Evaluation (Y, N)			

Interval Tested	<u>3231 - 3270</u>	Initial Str Wt. Lbs.	<u>30,000</u>	Unseated Str Wt. Lbs.	<u>30,000</u>						
Anchor Length	<u>39</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>40,000</u>						
Top Packer Depth	<u>3226</u>	Tool Weight	<u>1000</u>								
Bottom Packer Depth	<u>3231</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"							
Total Depth	<u>3270</u>	Wt. Pipe Run		Drill Collar Run	<u>30</u>						
Mud Wt.	<u>9.3</u>	LCM	<u>TC</u>	Vis.	<u>51</u>	WL	<u>8</u>	Drill Pipe Size	<u>4.5XH</u>	Ft. Run	<u>3181</u>
Blow Description	<u>I.F. Weak - building to STRONG blow B.O.B. in 20 min.</u>										
	<u>F.F. Weak - building to STRONG blow B.O.B. in 30 min.</u>										

Recovery — Total Feet	<u>216</u>	GIP	<u>400</u>	Ft. in DC	<u>30</u>	Ft. in DP	<u>186</u>				
Rec.	<u>30</u>	Feet Of	<u>MCO</u>	%gas	<u>80</u>	%oil		%water	<u>20</u>	%mud	
Rec.	<u>62</u>	Feet Of	<u>SMY OC WTRY MUD</u>	%gas	<u>5</u>	%oil	<u>25</u>	%water	<u>70</u>	%mud	
Rec.	<u>124</u>	Feet Of	<u>MC WTR</u>	%gas		%oil	<u>90</u>	%water	<u>10</u>	%mud	
Rec.		Feet Of		%gas		%oil		%water		%mud	
Rec.		Feet Of		%gas		%oil		%water		%mud	
BHT	<u>106</u>	°F Gravity		°API D@		°F Corrected Gravity		°API			
RW	<u>120</u>	@	<u>80</u>	°F Chlorides	<u>30,000</u>	ppm Recovery		Chlorides	<u>4,000</u>	ppm System	
(A) Initial Hydrostatic Mud	<u>1584</u>	PSI	Recorder No.	<u>13754</u>	T-Started	<u>15:50</u>					
(B) First Initial Flow Pressure	<u>85</u>	PSI	(depth)	<u>3237</u>	T-Open	<u>16:50</u>					
(C) First Final Flow Pressure	<u>85</u>	PSI	Recorder No.	<u>13248</u>	T-Pulled	<u>19:50</u>					
(D) Initial Shut-in Pressure	<u>941</u>	PSI	(depth)	<u>3267</u>	T-Out	<u>21:30</u>					
(E) Second Initial Flow Pressure	<u>138</u>	PSI	Recorder No.								
(F) Second Final Flow Pressure	<u>138</u>	PSI	(depth)								
(G) Final Shut-in Pressure	<u>962</u>	PSI	Initial Opening	<u>30</u>	Test						
(H) Final Hydrostatic Mud	<u>1531</u>	PSI	Initial Shut-in	<u>30</u>	Jars						

Final Flow 60 Safety Joint \_\_\_\_\_  
Final Shut-in 60 Straddle \_\_\_\_\_

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Approved By \_\_\_\_\_  
Our Representative Dan Bangle

Circ. Sub \_\_\_\_\_  
Sampler \_\_\_\_\_  
Extra Packer \_\_\_\_\_  
Elect. Rec. \_\_\_\_\_  
Other \_\_\_\_\_  
TOTAL PRICE \$ \_\_\_\_\_

ORIGINAL

WELL NAME: Hall #1  
COMPANY: Geronimo Oil Inc  
LOCATION: 12-21S-12W  
Stafford County Kansas 15-185-23052  
DATE: 08/20/97

TRILOBITE TESTING L.L.C.

OPERATOR : Geronimo Oil, Inc DATE 8/15/97  
 WELL NAME: Hall #1 KB 182521.00 ft TICKET NO: 10037 DST #3  
 LOCATION : 12-21S-12W Stafford KS GR 1815.00 ft FORMATION: Com Simpson Arbuckle  
 INTERVAL : 3407.00 To 3463.00 ft TD 3463.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
F 30 Rec.	10332	10332	10991			PF Fr. 2025 to 2055 hr
I 30 Range (Psi )	4025.0	4000.0	4200.0	0.0	0.0	IS Fr. 2055 to 2125 hr
SF 60 Clock (hrs)	12 HR	12 HR	12 HR			SF Fr. 2125 to 2225 hr
ES 60 Depth (ft )	3418.0	3418.0	3460.0	0.0	0.0	FS Fr. 2225 to 2325 hr

	Field	1	2	3	4	
A. Init Hydro	1763.0	1764.0	0.0	0.0	0.0	T STARTED 1900 hr
B. First Flow	61.0	39.0	0.0	0.0	0.0	T ON BOTM 2015 hr
C. Final Flow	101.0	117.0	0.0	0.0	0.0	T OPEN 2025 hr
D. In Shut-in	709.0	717.0	0.0	0.0	0.0	T PULLED 2325 hr
E. Init Flow	51.0	64.0	0.0	0.0	0.0	T OUT 0100 hr
F. Final Flow	71.0	71.0	0.0	0.0	0.0	
G. Fl Shut-in	648.0	658.0	0.0	0.0	0.0	
H. Final Hydro	1712.0	1671.0	0.0	0.0	0.0	
Inside/Outside	I	I	O			

TOOL DATA-----  
 Tool Wt. 2100.00 lbs  
 Wt Set On Packer 20000.00 lbs  
 Wt Pulled Loose 42000.00 lbs  
 Initial Str Wt 32000.00 lbs  
 Unseated Str Wt 32000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.88 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.80 in  
 D.C. Length 30.00 ft  
 D.P. Length 3370.00 ft

RECOVERY

Tot Fluid 95.00 ft of 30.00 ft in DC and 65.00 ft in DP  
 358.00 ft of Gas in Pipe  
 0.00 ft of  
 0.00 ft of Gassy Oil stained Mud  
 0.00 ft of 68%gas 2%oil 30%mud  
 0.00 ft of Gassy Oil cut Mud  
 0.00 ft of 50%gas 14%oil 36%mud  
 35.00 ft of Gassy Mud cut Oil  
 0.00 ft of 20%gas 20%mud 60%oil  
 ALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.40 lb/cf  
 Vis. 51.00 S/L  
 W.L. 10.00 in3  
 F.C. 0.00 in  
 Mud Drop  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 110.00 F  
 Hole Condition  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out  
 Tool Chased  
 Tester Darren Amerine  
 Co. Rep. Bill Sladek  
 Contr. Discovery  
 Rig # 1  
 Unit #  
 Pump T.

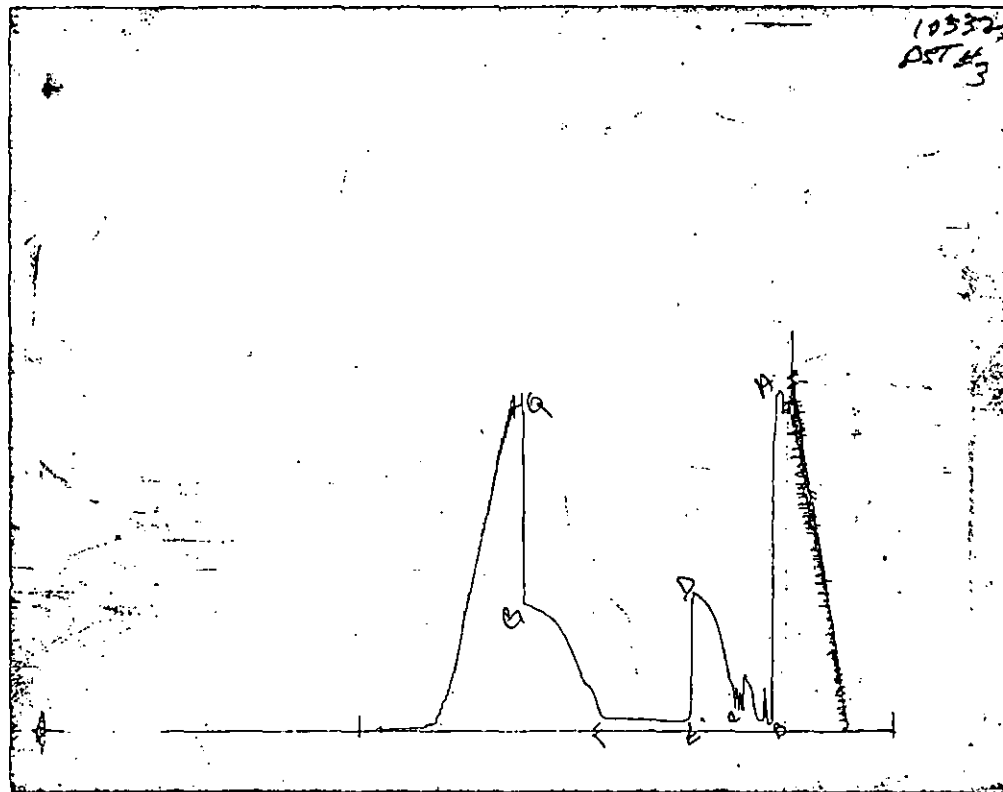
BLOW DESCRIPTION

Initial Flow:  
 Weak blow, built to 3" in water bucket  
 Initial Shut In:  
 Bled down for 5 mins, no blow back  
 Final Flow:  
 Weak blow, built to bottom of bucket  
 in 15 mins  
 Final Shut In:  
 Bled down 5 mins, no blow back

SAMPLES:  
 SENT TO:

Test Successful: Y

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

## Test Ticket

No 10037

Well Name & No. Hall #1 Test No. #3 Date 8/15/97  
Company GERONIMO OIL, Inc. W.M. Brooks Zone Tested Com. Simpson Rebock  
Address 2449 SW 90th Okla City, Ok. 73159 Elevation 1825 KB 1815 GL  
Co. Rep / Geo. Bill Sladek Cont. Discovery #1 Est. Ft. of Pay      Por.      %  
Location: Sec. 62 Twp. 21S Rge. 12W Co. Stafford State Ks  
No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 3407 - 3463 Initial Str Wt./Lbs. 32000 Unseated Str Wt./Lbs. 32000  
Anchor Length 56' Wt. Set Lbs. 29000 Wt. Pulled Loose/Lbs. 42000  
Top Packer Depth 3402' Tool Weight 2100  
Bottom Packer Depth 3407' Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
Total Depth 3463' Wt. Pipe Run      Drill Collar Run 30'  
Mud Wt. 9.4 LCM TF Vis. 51 WL 10.0 Drill Pipe Size 4 1/2 KH Ft. Run 3370'  
Blow Description IF: Weak blow. Built to 3 ins in #2 bucket  
TST: Bled down for 5 mins. No bp.  
FF: Weak blow. Built to B.O.B. in 15 mins.  
FST: Bled down 5 mins. No bp.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>30'</u> Feet Of <u>6 COM</u>	<u>358'</u>	<u>68</u>	<u>65'</u>
Rec. <u>30'</u> Feet Of <u>    </u>		<u>50</u> %gas <u>14</u> %oil	<u>36</u> %water <u>36</u> %mud
Rec. <u>35'</u> Feet Of <u>    </u>		<u>20</u> %gas <u>60</u> %oil	<u>20</u> %water <u>20</u> %mud
Rec. <u>    </u> Feet Of <u>    </u>		<u>    </u> %gas <u>    </u> %oil	<u>    </u> %water <u>    </u> %mud
Rec. <u>    </u> Feet Of <u>    </u>		<u>    </u> %gas <u>    </u> %oil	<u>    </u> %water <u>    </u> %mud

BHT 110° °F Gravity      °API D@      °F Corrected Gravity      °API  
RW      @      °F Chlorides      ppm Recovery Chlorides      ppm System

(A) Initial Hydrostatic Mud 1763 PSI Recorder No. 10991 T-Started 7:00 P  
(B) First Initial Flow Pressure 61 PSI (depth) 3460' T-Open 8:25  
(C) First Final Flow Pressure 101 PSI Recorder No. 10332 T-Pulled 11:25  
(D) Initial Shut-in Pressure 709 PSI (depth) 3418' T-Out 1:00 AM  
(E) Second Initial Flow Pressure 51 PSI Recorder No.       
(F) Second Final Flow Pressure 71 PSI (depth)       
(G) Final Shut-in Pressure 648 PSI Initial Opening 30 Test   
(H) Final Hydrostatic Mud 1712 PSI Initial Shut-in 30 Jars       
Final Flow 60 Safety Joint       
Final Shut-in 60 Straddle       
     Circ. Sub       
     Sampler       
     Extra Packer       
     Elect. Rec.       
     Other     

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Approved By [Signature]  
Our Representative Daren Limerand

TOTAL PRICE \$

TRILOBITE TESTING I.L.C.

OPERATOR : Geronimo Oil, Inc  
 WELL NAME: Hall #1  
 LOCATION : 12-21S-12W Stafford KS  
 INTERVAL : 3463.00 To 3470.00 ft

DATE 8/16/97  
 KB 1825.00 ft TICKET NO: 10038 DST #4  
 GR 1815.00 ft FORMATION: Arbuckle  
 TD 3470.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
RF 30 Rec.	10991	10991				PF Fr. 1005 to 1035 hr
RI 30 Range (Psi )	4200.0	4200.0	0.0	0.0	0.0	IS Fr. 1035 to 1105 hr
SF 60 Clock (hrs)	12 HR	12 HR				SF Fr. 1105 to 1205 hr
FS 60 Depth (ft )	3467.0	3467.0	0.0	0.0	0.0	FS Fr. 1205 to 1305 hr

	Field	1	2	3	4	
A. Init Hydro	1766.0	1787.0	0.0	0.0	0.0	T STARTED 0900 hr
B. First Flow	64.0	86.0	0.0	0.0	0.0	T ON BOTM 0950 hr
C. Final Flow	117.0	146.0	0.0	0.0	0.0	T OPEN 1005 hr
D. In Shut-in	671.0	724.0	0.0	0.0	0.0	T PULLED 1305 hr
E. Init Flow	53.0	99.0	0.0	0.0	0.0	T OUT 1430 hr
F. Final Flow	53.0	87.0	0.0	0.0	0.0	
G. Fl Shut-in	650.0	668.0	0.0	0.0	0.0	TOOL DATA-----
H. Final Hydro	1745.0	1689.0	0.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 48000.00 lbs
						Initial Str Wt 32000.00 lbs
						Unseated Str Wt 33000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 3427.00 ft

RECOVERY

Tot Fluid 95.00 ft of 30.00 ft in DC and 65.00 ft in DP  
 477.00 ft of Gas In Pipe  
 0.00 ft of  
 55.00 ft of Free Oil  
 0.00 ft of 100%oil  
 30.00 ft of Gassy Heavy Mud Cut Oil  
 0.00 ft of 16%gas 40%mud 44%oil  
 0.00 ft of  
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:  
 Fair blow, built to bottom of bucket  
 in 20 mins

Initial Shut In:  
 Bled down for 5 mins

Final Flow:  
 Weak blow, built to bottom of bucket  
 in 30 mins

Final Shut In:

SAMPLES:

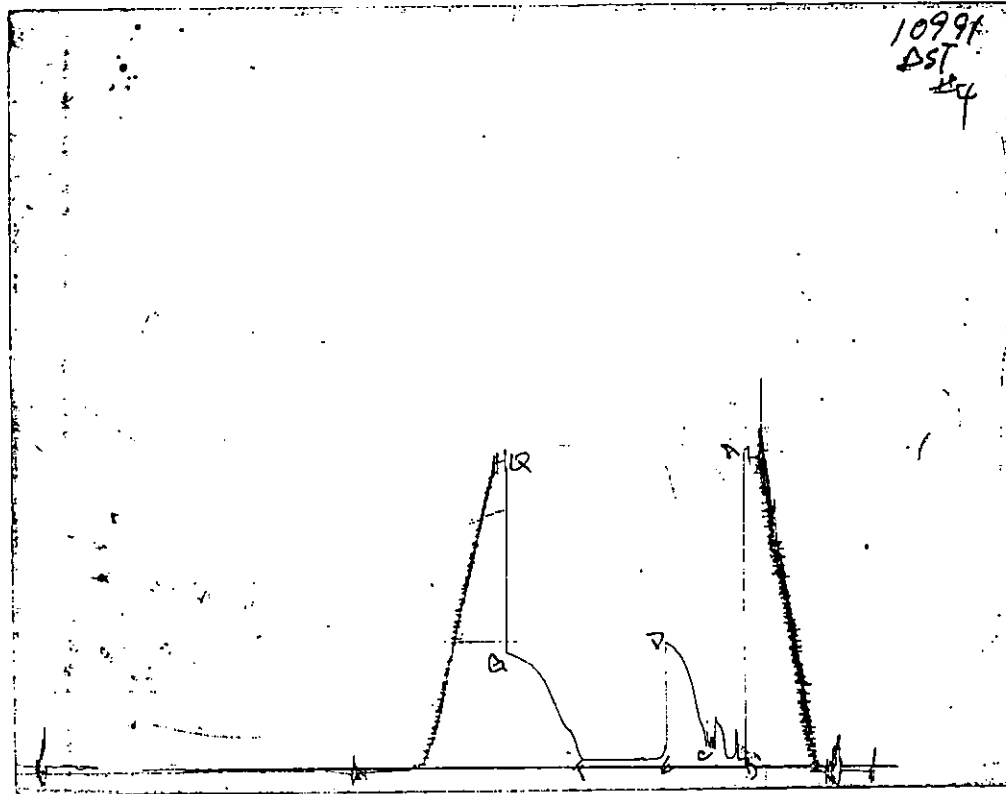
SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/cf
Vis.	45.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Darren Amerine
Co. Rep.	Bill Sladek
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

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

## Test Ticket

No 10038

Well Name & No. Hall #1 Test No. #4 Date 8/16/97  
Company Ceronimo Oil, Inc W.M Brooks Zone Tested Arb.  
Address 2449 SW 90th Okla City, OK 73159 Elevation 1825 KB 1815 GL  
Co. Rep / Geo. Bill Sladek Cont. Discovery #1 Est. Ft. of Pay      Por.      %  
Location: Sec. 12 Twp. 21S Rge. 12W Co. Stefford State KS  
No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 3463 - 5470' Initial Str Wt./Lbs. 32,000 Unseated Str Wt./Lbs. 33,000  
Anchor Length 7' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 48,000  
Top Packer Depth 3458' Tool Weight 2100  
Bottom Packer Depth 3463' Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
Total Depth 3470' Wt. Pipe Run      Drill Collar Run 30'  
Mud Wt. 9.4 LCM 1cc Vis. 45 WL 84 Drill Pipe Size 4 1/2 XH Ft. Run 3427'  
Blow Description IF Fair blow. Built to B.O.B. in 20 mins.  
ISI: Bled down for 5 mins. B.R. to  
FF (Weak blow). Built to B.B. in 30 mins.  
FST:

Recovery — Total Feet 95 GIP 477' Ft. in DC 30' Ft. in DP 65  
Rec. 65 Feet Of Free oil %gas 100 %oil      %water      %mud       
Rec. 30 Feet Of OCMO %gas 44 %oil      %water 48 %mud       
Rec.      Feet Of      %gas      %oil      %water      %mud       
Rec.      Feet Of      %gas      %oil      %water      %mud       
Rec.      Feet Of      %gas      %oil      %water      %mud     

BHT 126° °F Gravity 72 °API D@      °F Corrected Gravity      °API

RW      @      °F Chlorides      ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud 1766 PSI Recorder No. 10991 T-Started 9:00 A  
(B) First Initial Flow Pressure 64 PSI (depth) 3467 T-Open 10:05  
(C) First Final Flow Pressure 117 PSI Recorder No.      T-Pulled 1:05 P  
(D) Initial Shut-in Pressure 671 PSI (depth)      T-Out 2:30  
(E) Second Initial Flow Pressure 53 PSI Recorder No.       
(F) Second Final Flow Pressure 53 PSI (depth)       
(G) Final Shut-in Pressure 650 PSI Initial Opening 30 Test       
(H) Final Hydrostatic Mud 1745 PSI Initial Shut-in 30 Jars       
Final Flow 60 Safety Joint       
Final Shut-in 60 Straddle     

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 [Signature]  
Our Representative Darrence Damerin

Circ. Sub       
Sampler       
Extra Packer       
Elect. Rec.       
Other       
TOTAL PRICE \$