

**CONFIDENTIAL**

**WELL COMPLETION FORM**  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

**ORIGINAL**

Operator: License # 5506  
Name: WOOLSEY PETROLEUM CORPORATION  
Address: 125 N. MARKET, SUITE 1000  
City/State/Zip: WICHITA, KANSAS 67202  
Purchaser: BLUESTEM GAS MARKETING  
Operator Contact Person: DEBRA CLINGAN  
Phone: (316) 267-4379 EXT 106  
Contractor: Name: DUKE DRILLING CO., INC.  
License: 5929  
Wellsite Geologist: MIKEAL K. MAUNE

API No. 15 - 007-22607-0000  
County: BARBER  
SW-SW-SW Sec. 28 Twp. 33 S. R. 13  East  West  
330' FSL feet from S / N (circle one) Line of Section  
330' FWL feet from E / W (circle one) Line of Section

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

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW **SW**  
Lease Name: SPRIGGS G Well #: 2  
Field Name: AETNA (SNYDERVILLE)  
Producing Formation: SNYDERVILLE

If Workover/Re-entry: Old Well Info as follows:  
Operator: n/a

Elevation: Ground: 1680' Kelly Bushing: 1689'  
Total Depth: 4570' Plug Back Total Depth: 4274'  
Amount of Surface Pipe Set and Cemented at 334' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet

Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back  Plug Back Total Depth  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)  Docket No. \_\_\_\_\_

If Alternate II completion, cement circulated from n/a  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

11-30-99 12-11-99 01-11-00  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

Drilling Fluid Management Plan Att. 1, 5-10-00 ur.  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used KCC  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**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 of 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: Mark P. Stevenson  
Title: V.P. - Operations Date: 02-07-00

Subscribed and sworn to before me this 2nd day of February, 2000

19 \_\_\_\_\_  
Notary Public: Debra K. Clingan  
Date Commission Expires: March 4, 2002



**KCC Office Use ONLY**

Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

KCC

Operator Name: WOOLSEY PETROLEUM CORPORATION Lease Name: SPRIGGS G Well #: 2

Sec. 28 Twp. 33 S. R. 13  East  West County: BARBER

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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:  
SPECTRAL DENSITY DUAL SPACED NEUTRON II  
HIGH RESOLUTION INDUCTION  
MICROLOG  
CEMENT BOND

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Winfield	2138	- 449
Onaga	2900	-1211
Topeka	3353	-1664
Heebner	3903	-2214
Snyderville	3912	-2223
Douglas	3991	-2302
Lansing	4091	-2402
Swope	4518	-2795
Hertha	4518	-2829
RTD	4570	-2881

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	# Sacs Used	Type and Percent Additives
Surface	14-3/4"	10-3/4"	32.75#	334'	60/40 poz	225	2%gel, 3%cc
Production	7-7/8"	4-1/2"	10.5#	4325'	ASC	170	5# Kol-Seal

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
6 JPF	3920'-3933' SNYDERVILLE	ACID: 3500 GAL 7.5% FE	same

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	4266'	none	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.	Producing Method			
01-12-00	<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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	trace	350	trace	

Disposition of Gas  Vented  Sold  Used on Lease (if vented, Sumit ACO-18.)

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

Production Interval

CONFIDENTIAL

ALLIED CEMENTING CO., INC.

ORIGINAL

Federal Tax I.D.# 48-0727860

RECEIVED 2196

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

SERVICE POINT: DEC 10 1999 Medicine Lodge

DATE 1-30-99	SEC 29	TWP. 33S	RANGE 13W	CALLED OUT 9:00 pm	ON LOCATION 10:30 pm	JOB START 2:50 am	JOB FINISH 3:15 am
LEASE SPRINGS	WELL# 2	LOCATION UNION CHAPEL west			COUNTY Barber	STATE KS	
OLD OR NEW (Circle one)		to DE 1 1/2, 1 1/2, N into					

CONTRACTOR Duke #4  
 TYPE OF JOB Surface  
 HOLE SIZE 14 3/4 T.D. 335  
 CASING SIZE 10 3/4 x 32" DEPTH 335  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 250 MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15 feet  
 PERFS.  
 DISPLACEMENT 32 1/4 BBLs freshwater

OWNER Woolsey Petroleum Corp  
 CEMENT AMOUNT ORDERED 225.5 x 60:40:2+3 1/2 cc

EQUIPMENT  
 PUMP TRUCK CEMENTER Carl Balding  
 # 261-265 HELPER Stone Winsor  
 BULK TRUCK # 301 DRIVER Mark Brungardt  
 BULK TRUCK DRIVER

COMMON A	135	@ 6.35	857.25
POZMIX	90	@ 3.25	292.50
GEL	4	@ 9.50	38.00
CHLORIDE	7	@ 28.00	196.00
HANDLING	225	@ 1.05	236.25
MILEAGE	225 x 15	- .04	135.00
			TOTAL \$1755.00

REMARKS:

SERVICE

Pipe on Bottom, Break Circulation  
 Pump 3 BBLs fresh water.  
 225.5 x 60:40:2+3 1/2 cc  
 Switch valves + Release plug.  
 Displace with 32 1/4 BBLs freshwater  
 Cement did circulate. ✓  
 Shut-in

DEPTH OF JOB	335		
PUMP TRUCK CHARGE	0-300'	@	470.00
EXTRA FOOTAGE	35'	@ .43	15.05
MILEAGE	15	@ 2.85	42.75
PLUG	WOODEN 10 3/4"	@ 55.00	55.00
			TOTAL \$582.80

CHARGE TO: Woolsey Petroleum Corp.  
 STREET P.O. Box 468  
 CITY Med. Lodge STATE KANSAS ZIP 67104

FLOAT EQUIPMENT DEC - 7 1999

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	2337.80		
DISCOUNT	467.96		
	1870.24		
			IF PAID IN 30 DAYS
SIGNATURE Gabel D Roush			PRINTED NAME

RECEIVED KANSAS CORPORATION COMMISSION

MAR 29 2000 3-29-00

CONSERVATION DIVISION WICHITA, KS



KCC  
MAR 29 2000  
CONFIDENTIAL

Well Name: Spriggs G#2  
Company: Woolsey Petroleum, Corp.  
Location: 28-33s-13w  
Barber county Kansas  
Date: 12-14-99

ORIGINAL

CONFIDENTIAL

RECEIVED  
KANSAS CORPORATION COMMISSION

MAR 29 2000

CONSERVATION DIVISION  
WICHITA, KS

DEC 15 1999

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Woolsey Pet, corp.

DATE 12/6/1999

WELL NAME: Spriggs G-#2

KB 1680.00 ft

TICKET NO: 12338

DST #1

LOCATION : 28-33s-13w Barber co KS

GR 1689.00 ft

FORMATION: Elgin sand

INTERVAL : 3671.00 To 3721.00 ft

TD 3721.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 25 Rec.	10332	10332	3246			PF Fr. 0123 to 0148 hr
SI 342 Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0148 to 0730 hr
SF 10 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0730 to 0740 hr
FS 100 Depth(ft )	3718.0	3718.0	3677.0	0.0	0.0	FS Fr. 0740 to 0920 hr

	Field	1	2	3	4	
A. Init Hydro	1957.0	1963.0	1868.0	0.0	0.0	T STARTED 2251 hr
B. First Flow	111.0	110.0	251.0	0.0	0.0	T ON BOTM 0120 hr
Bl. Final Flow	1024.0	1031.0	1085.0	0.0	0.0	T OPEN 0123 hr
C. In Shut-in	1468.0	1485.0	1471.0	0.0	0.0	T PULLED 0920 hr
D. Init Flow	811.0	825.0	1002.0	0.0	0.0	T OUT 1100 hr
E. Final Flow	1165.0	1169.0	1243.0	0.0	0.0	
F. Fl Shut-in	1387.0	1402.0	1431.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1855.0	1861.0	1793.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 44000.00 lbs
						Unseated Str Wt 50000.00 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 3683.00 ft

RECOVERY

Tot Fluid 165.00 ft of 0.00 ft in DC and 165.00 ft in DP  
 3518.00 ft of Gas in pipe  
 55.00 ft of Gas and condensate cut mud  
 0.00 ft of 12% gas 32% condensate 56% mud  
 55.00 ft of Gas and condensate cut mud  
 0.00 ft of 10% gas 10% condensate 80% mud  
 55.00 ft of Gas and condensate cut mud  
 0.00 ft of 10% gas 40% condensate 50% mud  
 0.00 ft of  
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type chemical  
 Weight 9.10 lb/cf  
 Vis. 47.00 S/L  
 W.L. 9.60 in3  
 F.C. 0.32 in  
 Mud Drop N  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 108.00 F  
 Hole Condition fair  
 % 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 Y 20.00 ft  
 Tester Darren L.Amerine  
 Co. Rep. Mikeal K.Maune  
 Contr. Duke  
 Rig # 4  
 Unit # no  
 Pump T. none

BLOW DESCRIPTION

Initial Flow:  
 Strong blow bottom of bucket in  
 15 secs. gas to surface in 1 1/2 mins  
 Initial Shut-in:  
 Bled down for 30 mins. built back to  
 weak surface blow  
 Final Flow:  
 Strong blow bottom of bucket in 10  
 secs. gauge gas  
 Final Shut-in:  
 Bled down for 45 mins built back to  
 weak surface blow

KCC

MAR 29 2000

CONFIDENTIAL

SAMPLES: Caraway Analytical  
SENT TO: Liberal, Ks.

Test Successful: Y

JUNE 1980

NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, L. L. C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

Analyzed by:  
 Caraway Analytical, Inc  
 P. O. Box 2137  
 Liberal, Kansas 67905  
 Phone: 316-624-5389  
 Fax: 316-626-7108

Lab Number: 996302  
 Sample From: Spriggs G-2 DST 1  
 Producer: Woolsey Petroleum  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 12/10/99  
 Pressure:  
 Temperature:  
 Location: 28-33-13  
 County: Barber  
 State: Kansas  
 Formation: Elgin  
 Sandstone

		Mole %	GPM
Helium	He:	0.285	0.000
Hydrogen	H2:	0.031	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	10.514	0.000
Carbon Dioxide	CO2:	0.185	0.000
Methane	C1:	81.484	0.000
Ethane	C2:	3.297	0.882
Propane	C3:	2.161	0.595
Iso Butane	iC4:	0.386	0.126
Normal Butane	nC4:	0.800	0.252
Iso Pentane	iC5:	0.251	0.092
Normal Pentane	nC5:	0.267	0.097
Hexanes Plus	C6+:	0.339	0.148

TOTAL: 100.000 2.192  
 Z Fact: 0.9977  
 SP.GR.: 0.6728  
 BTU (SAT): 999.5 @ 14.73 psia  
 BTU (DRY): 1017.2 @ 14.73 psia  
 OCTANE RATING: 113.0

COMMENTS:

0.000





\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Spriggs G-#2

LOCATION : 28-33s-13w Barber co KS

TICKET No. 12338 D.S.T. No. 1 DATE 12/6/1999

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 18

TOTAL TOOL ..... 46

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 32

TOTAL ASSEMBLY ..... 78

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands59 Single Total 3683

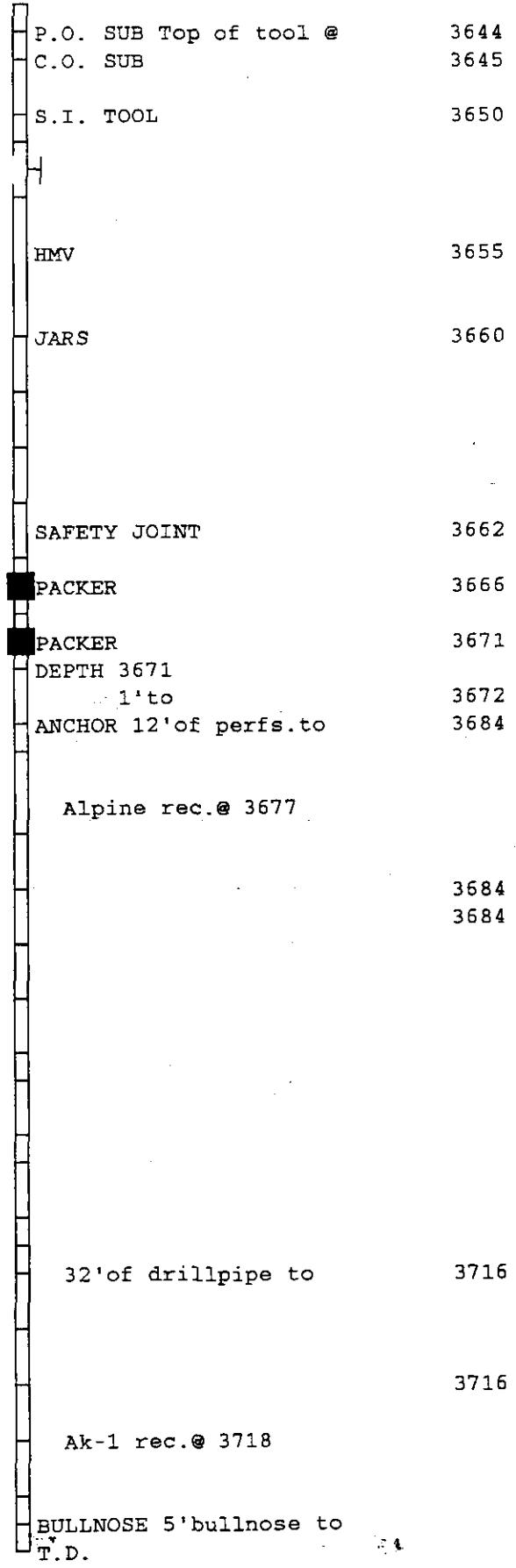
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3729

TOTAL DEPTH ..... 3721

TOTAL DRILL PIPE ABOVE K.B. .... 8

REMARKS:

Slid tool 12'to bottom and another 8'  
durring initial and final flow 6' during-the  
intial 2'during final.



# TEST HISTORY

Tk#12338 DST#1 Spriggs G-#2 Woolsey pet. corp.

## Flag Points

	t (Min.)	P (PSI)
A1	0.00	1868.36
B1	0.00	251.28
C1	24.25	1084.76
D1	344.50	1471.24
E1	0.00	1002.00
F1	8.50	1242.79
G1	100.50	1431.39
Q1	0.00	1793.42

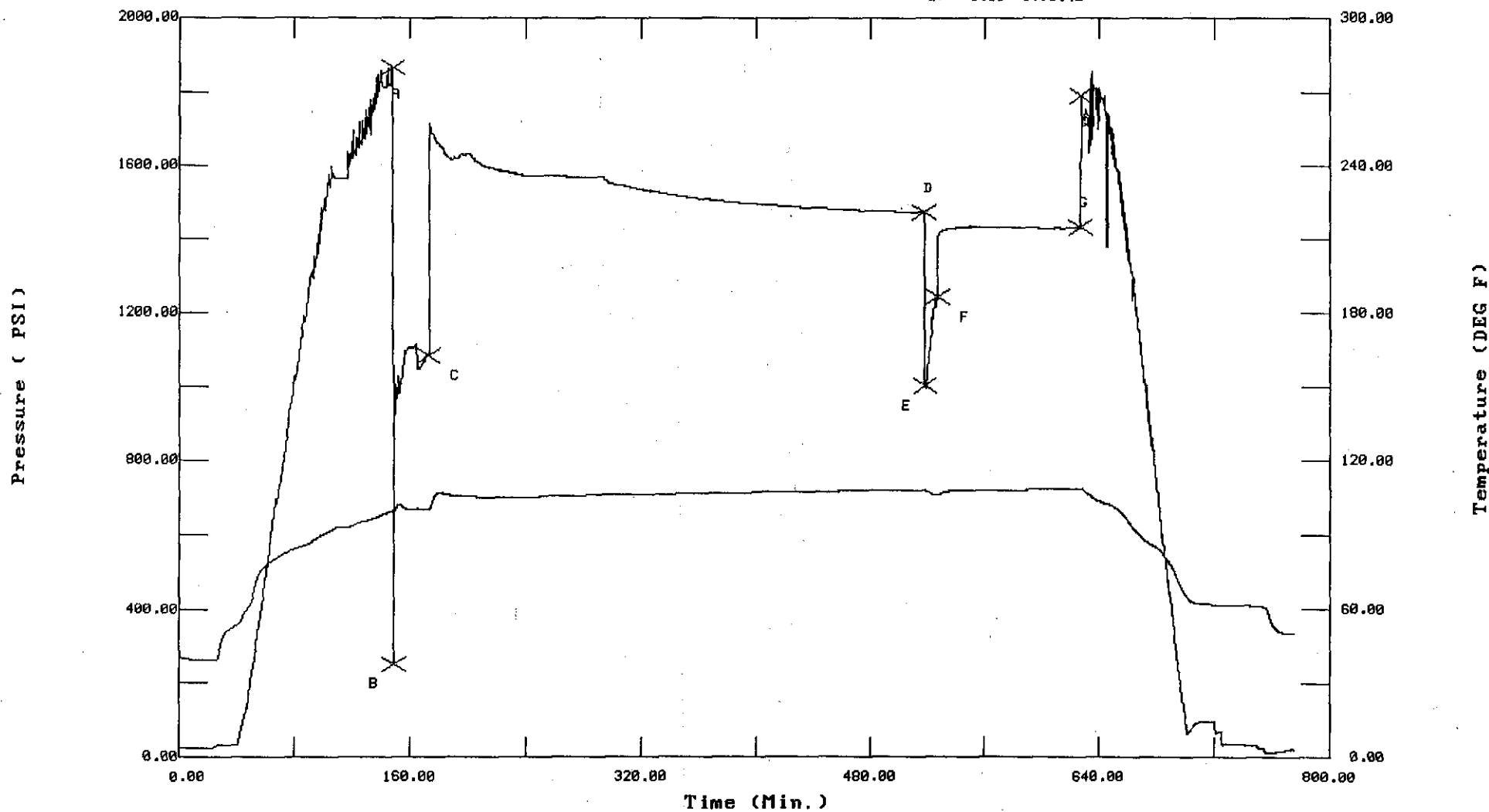
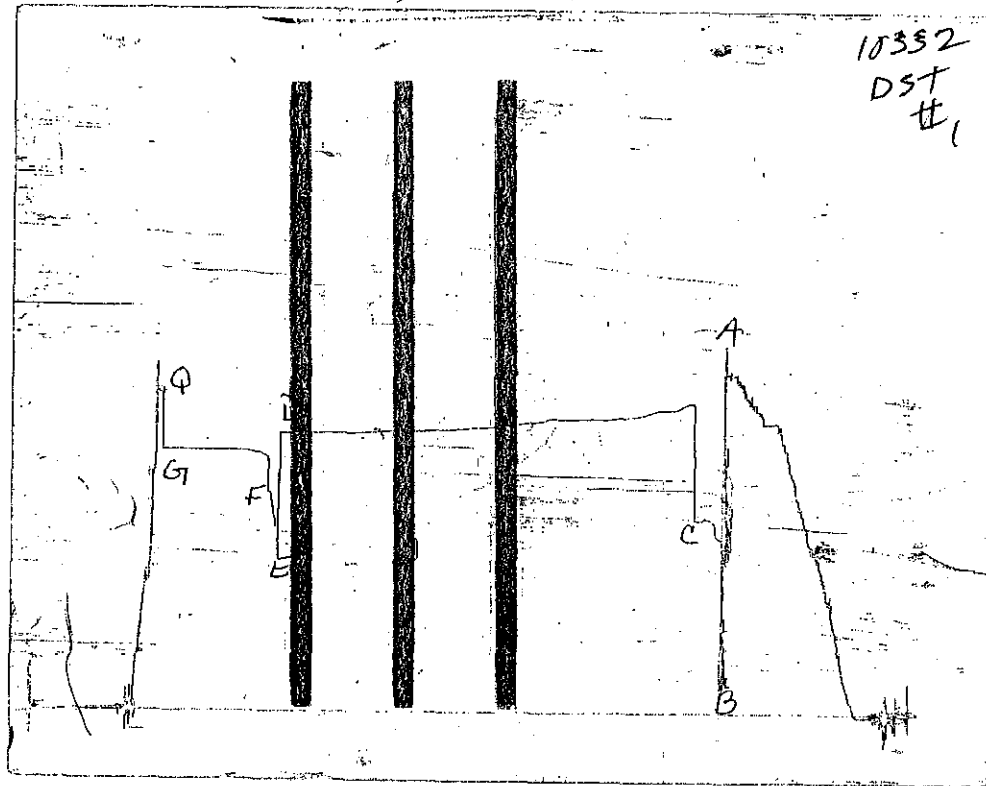


CHART PAGE



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



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 12338

## Test Ticket

Well Name & No. <u>Spiggs G #2</u>		Test No. <u>#1</u>	Date <u>12/6/1999</u>
Company <u>Woolsey Pet. Corp.</u>		Zone Tested <u>(Elgin) Sand Stone</u>	
Address <u>125 W Market, Ste. 1000 Wichita, KS 67202-1775</u>		Elevation <u>1689</u>	KB <u>1680GL</u>
Co. Rep / Geo. <u>Mike K. Maune</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay _____	Por. _____ %
Location: Sec. <u>28</u>	Twp. <u>33S</u>	Rge. <u>13W</u>	Co. <u>Barber</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>3671 - 3721</u>	Initial Str Wt./Lbs. <u>45,000</u>	Unseated Str Wt./Lbs. <u>5000</u>
Anchor Length <u>50'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>70,000</u>
Top Packer Depth <u>3666</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>3671</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>3721</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>N/A</u>

Mud Wt. 9.1 LCM  Vis. 47 WL 9.6 Drill Pipe Size 4 1/2 XH Ft. Run 3683'

Blow Description IF: Strong blow bob in 15 sec. 6.75' in 15 mins.  
ISL: Bled down for 30 mins built back to weak surface bl  
FF: Strong blow bob in 10 sec. Gauge Gas.  
FSL: Bled down for 4.5 mins Built back to Weak surface blow

Recovery — Total Feet <u>165'</u>	GIP <u>3518"</u>	Ft. in DC _____	Ft. in DP <u>165'</u>
Rec. <u>55'</u> Feet Of <u>Gas Condensate Cut mud</u>	12% gas	%oil <u>32</u> Condensate	%water <u>56</u> %mud
Rec. <u>55'</u> Feet Of <u>"</u>	10% gas	%oil <u>10</u> Condensate	%water <u>80</u> %mud
Rec. <u>55'</u> Feet Of <u>"</u>	10% gas	%oil <u>40</u> Condensate	%water <u>50</u> %mud
Rec. <u>3518'</u> Feet Of <u>Gas to pipe</u>	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud

BHT 108° °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 7800 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1957</u>	<u>1868</u>	<u>3246</u>	<u>2030</u>
(B) First Initial Flow Pressure	<u>111</u>	<u>251</u>	(depth) <u>3677'</u>	T-Started <u>2251</u>
(C) First Final Flow Pressure	<u>1024</u>	<u>1085</u>	PSI Recorder No. <u>10332</u>	T-Open <u>0123</u>
(D) Initial Shut-In Pressure	<u>1468</u>	<u>1471</u>	(depth) <u>3718'</u>	T-Pulled <u>0920</u>
(E) Second Initial Flow Pressure	<u>811</u>	<u>1002</u>	PSI Recorder No. _____	T-Out <u>1100</u>
(F) Second Final Flow Pressure	<u>1165</u>	<u>1243</u>	PSI (depth) _____	T-Off Location <u>1230</u>
(G) Final Shut-in Pressure	<u>1387</u>	<u>1431</u>	PSI Initial Opening <u>25</u>	Test <input checked="" type="checkbox"/>
(Q) Final Hydrostatic Mud	<u>1855</u>	<u>1793</u>	PSI Initial Shut-in <u>392</u>	Jars <input checked="" type="checkbox"/>
			Final Flow <u>10</u>	Safety Joint <input checked="" type="checkbox"/>
			Final Shut-in <u>100</u>	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 Michael K. Maune

Our Representative Daren J. Amelino

Circ. Sub \_\_\_\_\_

Sampler \_\_\_\_\_

Extra Packer \_\_\_\_\_

Elec. Rec.

Mileage \_\_\_\_\_

Other \_\_\_\_\_

TOTAL PRICE \$ \_\_\_\_\_

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petroleum, Corp.

DATE 12/08/199

WELL NAME: Spriggs G#-2

KB 1689.00 ft TICKET NO: 12339 DST #2

LOCATION : 28-33s-13w

GR 1680.00 ft FORMATION: Snyderville

INTERVAL : 3886.00 To 3935.00 ft

TD 3935.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 33	Rec.	10332	10332	3246			PF Fr. 1221 to 1254 hr
SI 60	Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1254 to 1354 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1354 to 1454 hr
FS 240	Depth(ft )	3932.0	3932.0	3892.0	0.0	0.0	FS Fr. 1454 to 1854 hr

	Field	1	2	3	4	
A. Init Hydro	1947.0	1952.0	1935.0	0.0	0.0	T STARTED 1029 hr
B. First Flow	51.0	44.0	16.0	0.0	0.0	T ON BOTM 1218 hr
Bl. Final Flow	51.0	44.0	52.0	0.0	0.0	T OPEN 1221 hr
C. In Shut-in	963.0	973.0	1013.0	0.0	0.0	T PULLED 1854 hr
D. Init Flow	91.0	93.0	77.0	0.0	0.0	T OUT 2025 hr
E. Final Flow	101.0	93.0	81.0	0.0	0.0	
F. Fl Shut-in	953.0	973.0	1011.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1927.0	1930.0	1912.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 48000.00 lbs
						Unseated Str Wt 48000.00 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 3899.00 ft

RECOVERY

Tot Fluid 90.00 ft of 0.00 ft in DC and 90.00 ft in DP  
 90.00 ft of Very slightly gas cut mud  
 0.00 ft of 4% gas trace of water 96% mud  
 3809.00 ft of Gas in pipe  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:

Guage gas.  
 Initial Shut-In:

back.  
 Final Flow:  
 Strong blow built to bottom of bucket  
 in 10 seconds.

Final Shut-In:  
 Bled down for 15 minutes. No blow  
 back.

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

Test Successful: Y

MUD DATA-----	
Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	58.00 S/L
W.L.	8.00 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	109.00 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.	Mikeal K. Maune
Contr.	Duke
Rig #	4
Unit #	no
Pump T.	none

NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, L. L. C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

Analyzed by:  
 Caraway Analytical, Inc  
 P. O. Box 2137  
 Liberal, Kansas 67905  
 Phone: 316-624-5389  
 Fax: 316-626-7108

Lab Number:	996303	Analyzed:	12/10/99
Sample From:	Spriggs G-2 DST 2	Pressure:	
Producer:	Woolsey Petroleum	Temperature:	
Date:		Location:	28-33-13
Time:		County:	Barber
Sampler:		State:	Kansas
Source:		Formation:	Snyderville

	Mole %	GPM
Helium	He: 0.234	0.000
Hydrogen	H2: 0.002	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 7.560	0.000
Carbon Dioxide	CO2: 0.043	0.000
Methane	C1: 84.134	0.000
Ethane	C2: 3.588	0.960
Propane	C3: 2.128	0.586
Iso Butane	iC4: 0.304	0.099
Normal Butane	nC4: 0.784	0.247
Iso Pentane	iC5: 0.222	0.081
Normal Pentane	nC5: 0.291	0.105
Hexanes Plus	C6+: 0.710	0.310

TOTAL: 100.000 2.389  
 Z Fact: 0.9976  
 SP.GR.: 0.6691  
 BTU (SAT): 1045.7 @ 14.73 psia  
 BTU (DRY): 1064.2 @ 14.73 psia  
 OCTANE RATING: 116.6

COMMENTS: 0.000

GAS RECOVERY  
-----

COMPANY: Woolsey Petroleum, Corp.

DATE: 12/08/199

WELL NAME: Spriggs G#-2

KB Elev: 1689.00 ft TICKET #12339 DST #2

WELL LOCATION: 28-33s-13w

GR Elev: 1680.00 ft FORMATION: Snyderville

INTERVAL Fr.: 3886.00 To 3935.00 T.D.: 3935.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merle

\*\*\*\*\* GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.50	16	0	153000.0
10	0.50	21	0	183000.0

\*\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	20	0	398000.0
10	0.75	23	0	436000.0
15	0.75	24	0	449000.0
20	0.75	25	0	461000.0
25	0.75	24	0	449000.0
30	0.75	24	0	449000.0
35	0.75	25	0	461000.0
40	0.75	25	0	461000.0
45	0.75	25	0	461000.0
50	0.75	26	0	473000.0
55	0.75	26	0	473000.0
60	0.75	26	0	473000.0



\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Spriggs G#-2

LOCATION : 28-33s-13w

TICKET No. 12339 D.S.T. No. 2 DATE 12/08/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 18

TOTAL TOOL ..... 46

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands      Single      Total

D.P. ANCHOR STND.Stands      Single 1      Total 31

TOTAL ASSEMBLY ..... 77

D.C. ABOVE TOOLS.Stands      Single      Total

D.P. ABOVE TOOLS.Stands61      Single      Total 3862

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3939

TOTAL DEPTH ..... 3935

TOTAL DRILL PIPE ABOVE K.B. .... 4

REMARKS:

P.O. SUB Top of tool @	3859
C.O. SUB	3860
S.I. TOOL	3865
HMV	3870
JARS	3875
SAFETY JOINT	3877
PACKER	3881
PACKER	3886
DEPTH 3886	
1'to	3887
ANCHOR 12'of perms.to	3899
Alpine rec.@ 3892	
31'jt.drillpipe to	3930
ak-1 rec.3932	
BULLNOSE 5'bullnose to	3935
T.D.	

# TEST HISTORY

Tk#12339 DST#2 Spriggs G-2 Woolsey Petroleum, Corporation

Flag Points

	t (Min.)	P (PSig)
A:	0.00	1935.24
B:	0.00	15.67
C:	29.50	52.07
D:	60.25	1012.52
E:	0.00	77.35
F:	56.75	81.45
G:	239.75	1010.60
Q:	0.00	1911.88

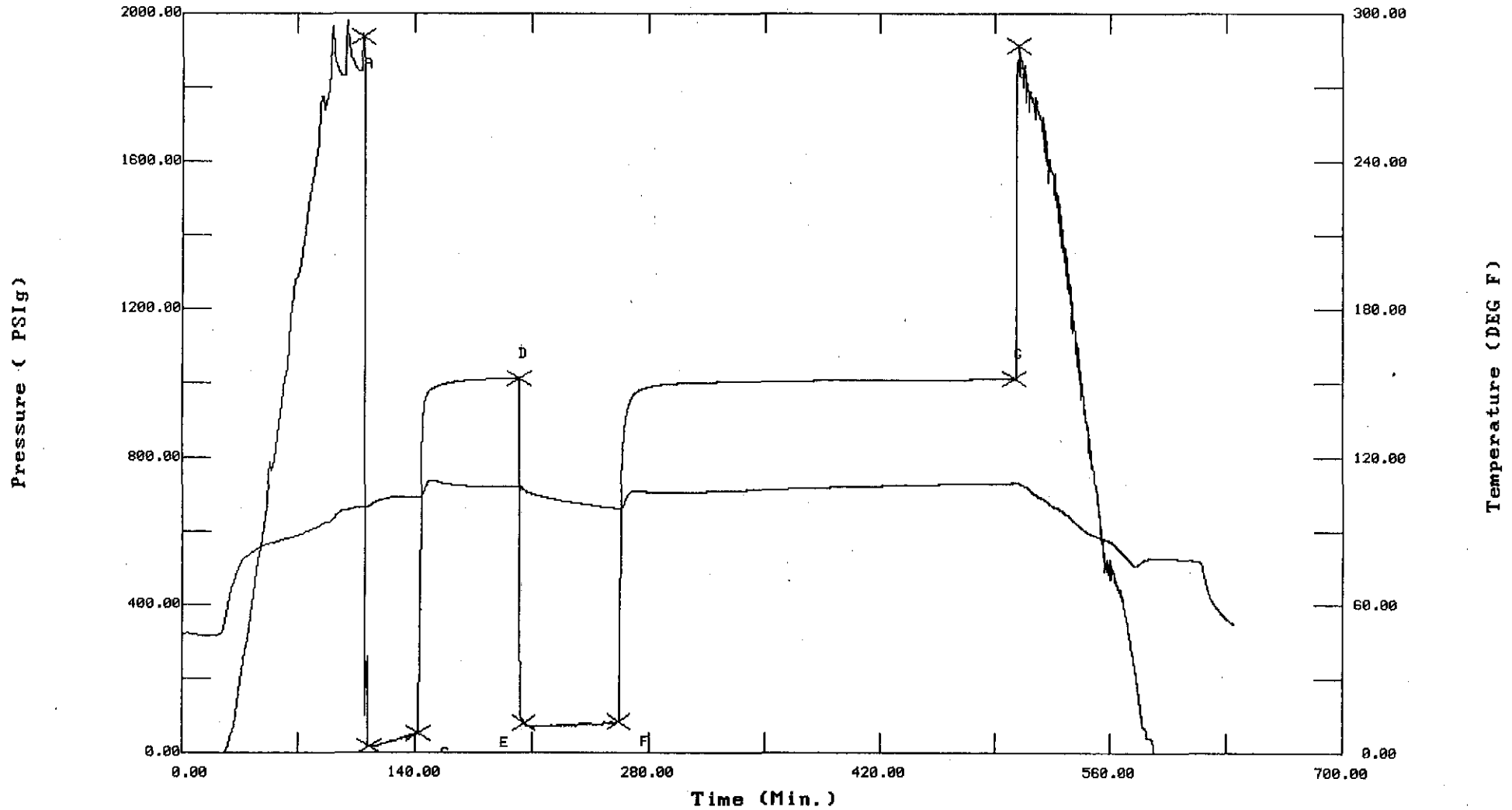
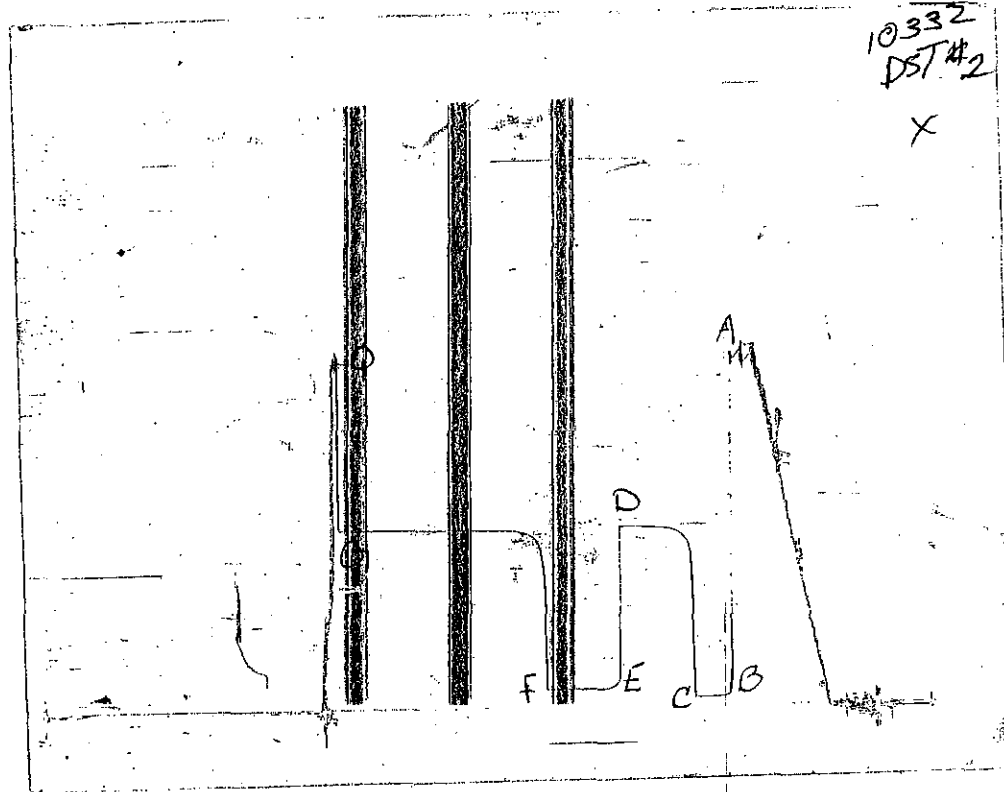


CHART PAGE



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



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N<sup>o</sup> 12339

## Test Ticket

Well Name & No. <u>Spriggs 6#2</u>		Test No. <u>#2</u>	Date <u>12/18/1999</u>	
Company <u>Woolsey Pet. Corp.</u>		Zone Tested <u>Snyderville</u>		
Address <u>125 W Market Wichita, Ks 67202-1775</u>		Elevation <u>1689</u>	KB <u>1680</u> GL	
Co. Rep / Geo. <u>Mitchel K. Maune Cont.</u>		<u>Duke #4</u>	Est. Ft. of Pay	Por. %
Location: Sec. <u>28</u>	Twp. <u>33S</u>	Rge. <u>13W</u>	Co. <u>Barber</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>3886 - 3935</u>	Initial Str Wt./Lbs. <u>48,000</u>	Unseated Str Wt./Lbs. <u>48,000</u>
Anchor Length <u>49'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>50,000</u>
Top Packer Depth <u>3881'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>3886'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>3935'</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>58</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3899'</u>
Blow Description <u>TF: Weak blow built to b.o.b in 2 mins 615 in 18 mins.</u>		
<u>FSI: Bled down for 15 mins no blow back</u>		
<u>FF: Strong blow built to b.o.b in 10 sec. Gauge Gas.</u>		
<u>FSI: Bled down for 15 mins</u>		

Recovery — Total Feet <u>90'</u>	GIP	Ft. in DC	Ft. in DP <u>90'</u>
Rec. <u>90'</u> Feet Of <u>VS6CM</u>	<u>4</u> %gas	%oil <u>Trace</u>	%water <u>96</u> %mud
Rec. <u>3809'</u> Feet Of <u>Gas In pipe</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
BHT <u>109°</u> °F Gravity	*API D@	°F Corrected Gravity *API	
RW @ °F Chlorides	ppm Recovery	Chlorides <u>9000</u>	ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>1947</u>	<u>1935</u>	PSI Recorder No. <u>3246</u>	T-On Location <u>0930</u>
(B) First Initial Flow Pressure	<u>51</u>	<u>16</u>	PSI (depth) <u>3892'</u>	T-Started <u>1029</u>
(C) First Final Flow Pressure	<u>51</u>	<u>52</u>	PSI Recorder No. <u>10332</u>	T-Open <u>1221</u>
(D) Initial Shut-In Pressure	<u>963</u>	<u>1013</u>	PSI (depth) <u>3932'</u>	T-Pulled <u>1854</u>
(E) Second Initial Flow Pressure	<u>91</u>	<u>77</u>	PSI Recorder No.	T-Out <u>2025</u>
(F) Second Final Flow Pressure	<u>101</u>	<u>81</u>	PSI (depth)	T-Off Location <u>2200</u>
(G) Final Shut-in Pressure	<u>953</u>	<u>1011</u>	PSI Initial Opening <u>33</u>	Test <input checked="" type="checkbox"/>
(Q) Final Hydrostatic Mud	<u>1927</u>	<u>1912</u>	PSI Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/>
			Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/>
			Final Shut-in <u>240</u>	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 Mitchel K. Maune  
 Our Representative Darren Lawrence

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