

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

API NO. 15- 051-24,879-00-08 ORIGINAL

County Ellis
NW NE NW Sec. 4 Twp. 13S Rge. 17 X^E

Operator: License # 3613

330 Feet from S (circle one) Line of Section

Name: HALLWOOD PETROLEUM, INC.

1650 Feet from E (circle one) Line of Section

Address 4582 S. Ulster St. Parkway
Suite 1700

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

City/State/Zip Denver, CO 80237

Lease Name WOLF Well # 7

Purchaser: Koch

Field Name Catherine, NW

Operator Contact Person: Kevin O'Connell

Producing Formation Lansing KC

Phone (303) 850-6303

Elevation: Ground 2071 5' 2076
KB

Contractor: Name: ALLEN DRILLING COMPANY

Total Depth 3683 PSTD 3572

License: 5418

Amount of Surface Pipe Set and Cemented at 215 Feet

Wellsite Geologist: Jim Musgrove

Multiple Stage Cementing Collar Used? X Yes No

Designate Type of Completion
X New Well Re-Entry Workover

If yes, show depth set 2527 Feet

X Oil SWD SIOV Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, MSW, Expl., Cathodic, etc)

If Alternate II completion, cement circulated from 1000'

feet depth to surface w/ 225 ex cmt.

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

Drilling Fluid Management Plan ALT 2 9/4 4-24-96
(Data must be collected from the Reserve Pit)

Operator: N/A

Chloride content ppm Fluid volume bbls

Well Name:

Dewatering method used

Comp. Date Old Total Depth

Location of fluid disposal if hauled offsite:

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

Operator Name

Lease Name License No.

10/20/94 10/29/94 11/25/94
Spud Date Date Reached TD Completion Date

 Quarter Sec. Twp. S Rng. E/W

County Docket No.

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well reports shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-11 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 Nonyak Durham
Title Production Technician Date 1/13/95

Subscribed and sworn to before me this 3rd day of January
19 95.

Notary Public Judy E. Atkins

Date Commission Expires 4/19/97

K.C.C. OFFICE USE ONLY
Letter of Confidentiality Attached
Wireline Log Received
Geologist Report Received

Distribution
✓ KCC SWD/Rep NGPA
KCS Plug Other
(Specify)

Operator Name HALLWOOD PETROLEUM, INC. Lease Name WOLF Well # 7

Sec. 4 Twp. 13 Rge. 17 East West
 County Ellis

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run:
 - Dual Induction Later Log
 - Compensated Density Dual Spaced Neutron Log
 - Computer Analyzed Log

Name	Formation (Top), Depth and Datum	Sample

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"	25#	215'	60/40poz 60/40poz	100 100	3%cc 2%gel 3%cc
production	7-7/8"	5-1/2"	14 & 15.5#	3680'	1st stage Class H 2nd stage Hal-lite	225 * 450	5% EA2, 10% Sal, 3/4 Halid 322, **

ADDITIONAL CEMENTING/SQUEEZE RECORD * 125 1/4# Flocele ** 5# Gilsnoite				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate	0-1000'	Halliburton Light	150	3% CC (squeezed 225 sks thru 3 holes at 1000')
<input checked="" type="checkbox"/> Protect Casing Plug Back TD		Halliburton 60/40 Poz	75	
<input type="checkbox"/> Plug Off Zone	0-1000'	Halliburton 60/40 Poz	75	3% CC

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 SPF	Arbuckle at 3611-13		300 gal double strength FEWE surfactant Pen 88 w/Clay Stay
4 SPF	Arb at 3588-3604, K 3520-24, J 3500-04, I 3478-82, G 3407-16, F 3389-94, B 3347-53, Toronto 3293-98 & Plattsmouth 3262-66		15% HCl-NE w/Clay Stay	3607

TUBING RECORD Size 2 7/8 Set At 3521 Packer At CIBP 3572 Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 11/25/94 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	24 BO	-0-	161 BW	N/A	29

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

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

Production Interval 3262-3524'

TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

API # 15-051-24879-00-00

Drill-Stem Test Data

Well Name WOLF #7 Test No. 1 Date 10/25/94
Company HALLWOOD PETROLEUM INC. Zone LKC
Address P.O. BOX 378111 DENVER CO 80237-8111 Elevation 2076
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN #3
Location: Sec. 4 Twp. 13S Rge. 17W Co. ELLIS State KS
Est. Ft. of Pay _____

Interval Tested 3323-3384 Drill Pipe Size 4.5" XH
Anchor Length 61 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3318 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3323 Mud Wt. 9.3 lb/Gal.
Total Depth 3384 Viscosity 50 Filtrate 10.8

Tool Open @ 10:52 A.M. Initial Blow WEAK-DIED IN 10 MIN
Final Blow NO BLOW-FLUSHED TOOL-GOOD SURGE-NO BLOW

Recovery - Total Feet 5 Flush Tool? YES

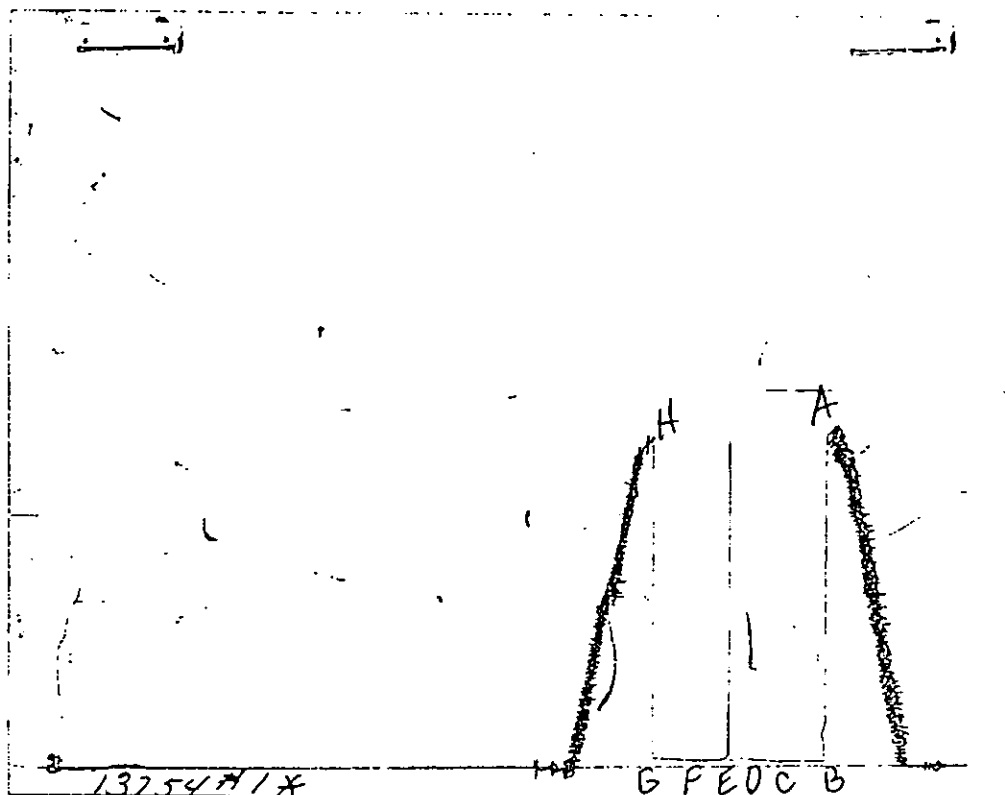
Rec. 5 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

3HT 106 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 1749.9 PSI AK1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure 27.5 PSI @ (depth) 3327 w / Clock No. 25810
(C) First Final Flow Pressure 27.5 PSI AK1 Recorder No. 13849 Range 4375
(D) Initial Shut-in Pressure 44.2 PSI @ (depth) 3380 w / Clock No. 27501
(E) Second Initial Flow Pressure 31.4 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 39.3 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 47.2 PSI Initial Opening 30 Final Flow 30
(H) Final Hydrostatic Mud 1668.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1746	1749.9
(B) FIRST INITIAL FLOW PRESSURE	29	27.5
(C) FIRST FINAL FLOW PRESSURE	29	27.5
(D) INITIAL CLOSED-IN PRESSURE	39	44.2
(E) SECOND INITIAL FLOW PRESSURE	29	31.4
(F) SECOND FINAL FLOW PRESSURE	39	39.3
(G) FINAL CLOSED-IN PRESSURE	49	47.2
(H) FINAL HYDROSTATIC MUD	1686	1668.9

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

15-051-24879-00-00

Well Name WOLF #7 Test No. 2 Date 10/26/94
Company HALLWOOD PETROLEUM INC. Zone KC
Address P.O. BOX 378111 DENVER CO 80237-8111 Elevation 2076
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN #3 Est. Ft. of Pay _____
Location: Sec. 4 Twp. 13S Rge. 17W Co. ELLIS State KS

Interval Tested 3382-3422 Drill Pipe Size 4.5" XH
Anchor Length 40 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3378 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3382 Mud Wt. 9.3 lb/Gal.
Total Depth 3422 Viscosity 48 Filtrate 10.8

Tool Open @ 11:40 P.M. Initial Blow WEAK-BUILDING TO 3" FAIR BLOW

Final Blow WEAK-BUILDING TO 1"

Recovery - Total Feet 115 Flush Tool? NO

Rec. 5 Feet of OIL CUT MUD 20%OIL/80%MUD
Rec. 110 Feet of WATER CUT MUD 30%WATER/70%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 109 °F Gravity 80 °API @ _____ °F Corrected Gravity _____ °API
RW 0.13 @ _____ °F Chlorides 55000 ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 1820.9 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 27.5 PSI @ (depth) 3386 w / Clock No. 25810

(C) First Final Flow Pressure 39.3 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 175.1 PSI @ (depth) 3418 w / Clock No. 27501

(E) Second Initial Flow Pressure 48.2 PSI AK1 Recorder No. _____ Range _____

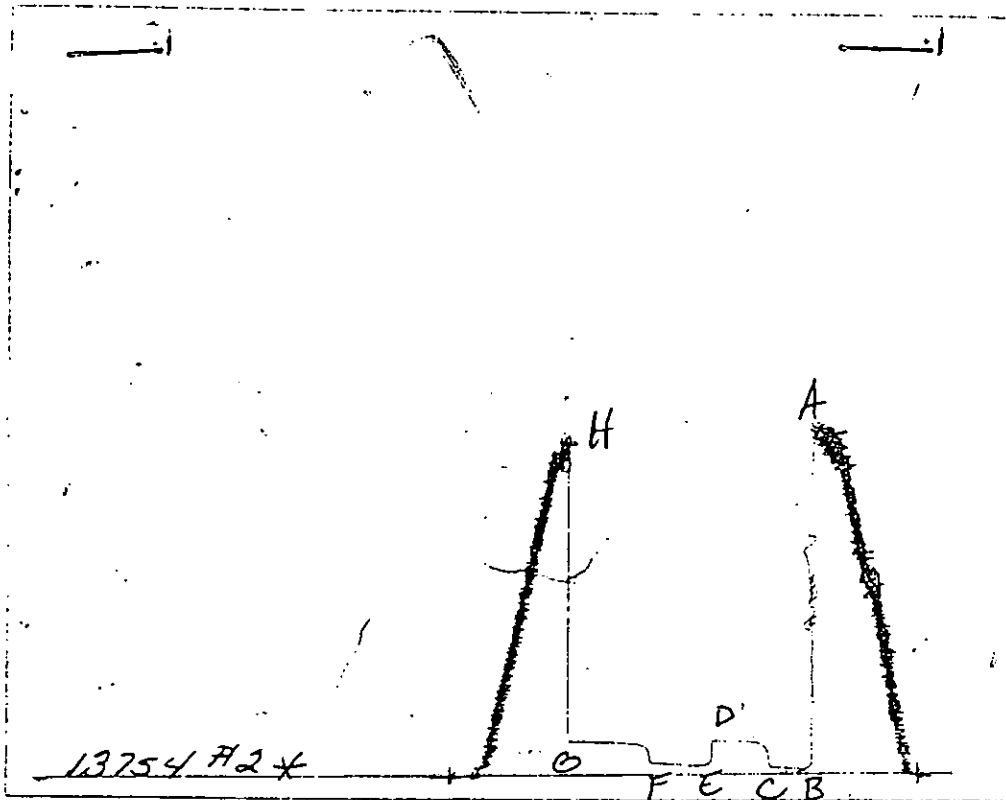
(F) Second Final Flow Pressure 63.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 177.1 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1720.9 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative DAN BANGLE

CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1816	1820.9
(B) FIRST INITIAL FLOW PRESSURE	29	27.5
(C) FIRST FINAL FLOW PRESSURE	39	39.3
(D) INITIAL CLOSED-IN PRESSURE	177	175.1
(E) SECOND INITIAL FLOW PRESSURE	59	48.2
(F) SECOND FINAL FLOW PRESSURE	68	63.9
(G) FINAL CLOSED-IN PRESSURE	177	177.1
(H) FINAL HYDROSTATIC MUD	1736	1720.9

TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

15-051-24879-00-00

Well Name WOLF #7 Test No. 3 Date 10/27/94
Company HALLWOOD PETROLEUM INC. Zone KC
Address P.O. BOX 378111 DENVER CO 80237-8111 Elevation 2076
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN #3 Est. Ft. of Pay _____
Location: Sec. 4 Twp. 13S Rge. 17W Co. ELLIS State KS

Interval Tested 3484-3550 Drill Pipe Size 4.5" XH
Anchor Length 66 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3479 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3484 Mud Wt. 9.4 lb/Gal.
Total Depth 3550 Viscosity 53 Filtrate 10.8

Tool Open @ 7:07 p.m. Initial Blow WEAK-DIED IN 10 MIN

Final Blow NO BLOW

Recovery - Total Feet 10 Flush Tool? NO

Rec. 10 Feet of DRILLING MUD WITH SHOW FREE OIL IN TOOL
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 1812.9 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 29.5 PSI @ (depth) 3488 w / Clock No. 25810

(C) First Final Flow Pressure 29.5 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 69.8 PSI @ (depth) 3546 w / Clock No. 27501

(E) Second Initial Flow Pressure 29.5 PSI AK1 Recorder No. _____ Range _____

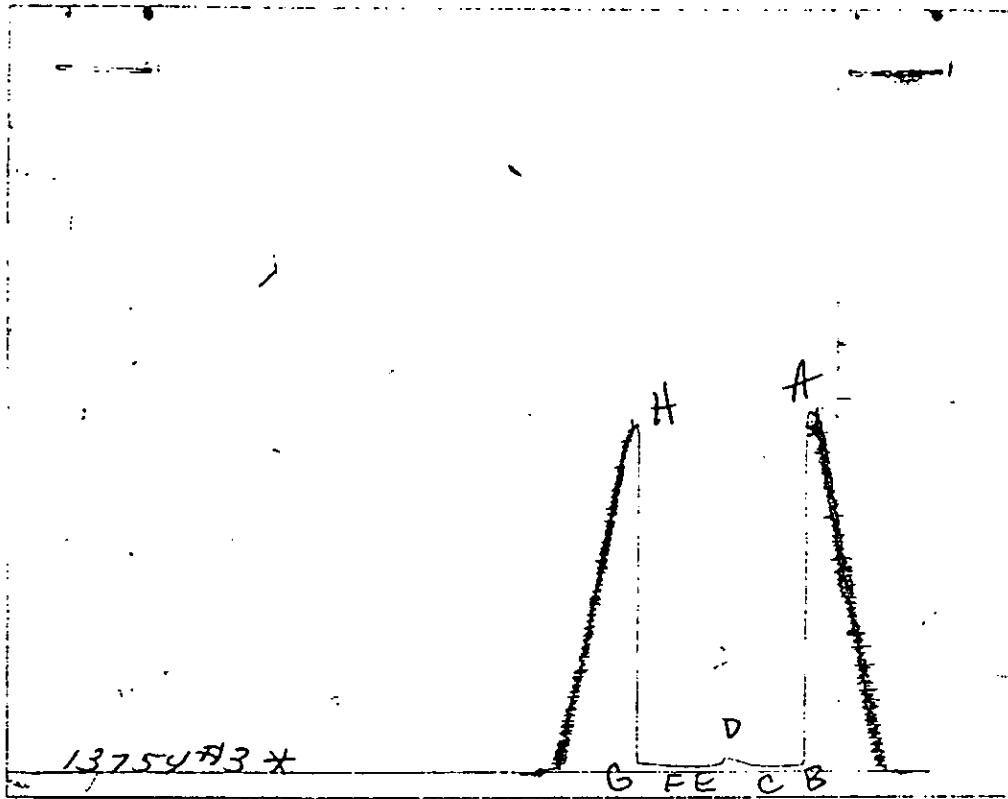
(F) Second Final Flow Pressure 29.5 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 49.2 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1780.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE

CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1876	1812.9
(B) FIRST INITIAL FLOW PRESSURE	39	29.5
(C) FIRST FINAL FLOW PRESSURE	39	29.5
(D) INITIAL CLOSED-IN PRESSURE	78	69.8
(E) SECOND INITIAL FLOW PRESSURE	39	29.5
(F) SECOND FINAL FLOW PRESSURE	39	29.5
(G) FINAL CLOSED-IN PRESSURE	59	49.2
(H) FINAL HYDROSTATIC MUD	1786	1780.9

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

15-051-24879-00-00

Well Name WOLF #7 Test No. 4 Date 10/28/94
Company HALLWOOD PETROLEUM INC. Zone ARBUCKLE
Address P.O. BOX 378111 DENVER CO 80237-8111 Elevation 2076
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN #3 Est. Ft. of Pay _____
Location: Sec. 4 Twp. 13S Rge. 17W Co. ELLIS State KS

Interval Tested 3582-3595 Drill Pipe Size 4.5" XH
Anchor Length 13 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3577 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3582 Mud Wt. 9.4 lb/Gal.
Total Depth 3592 Viscosity 45 Filtrate 11.2

Tool Open @ 10:20 A. ^{Initial Blow} LOST 30' OF MUD-BLED OFF BLOW-NO BLOW-FLUSHED TOOL-
NO SURGE-PLUGGED TOOL
Final Blow MISRUN

Recovery - Total Feet 90 Flush Tool? YES

Rec. 90 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

3HT 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 12000 ppm System

(A) Initial Hydrostatic Mud 1886.0 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 0.0 PSI @ (depth) 3586 w / Clock No. 25810

(C) First Final Flow Pressure 0.0 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 0.0 PSI @ (depth) 3591 w / Clock No. 27501

(E) Second Initial Flow Pressure 0.0 PSI AK1 Recorder No. _____ Range _____

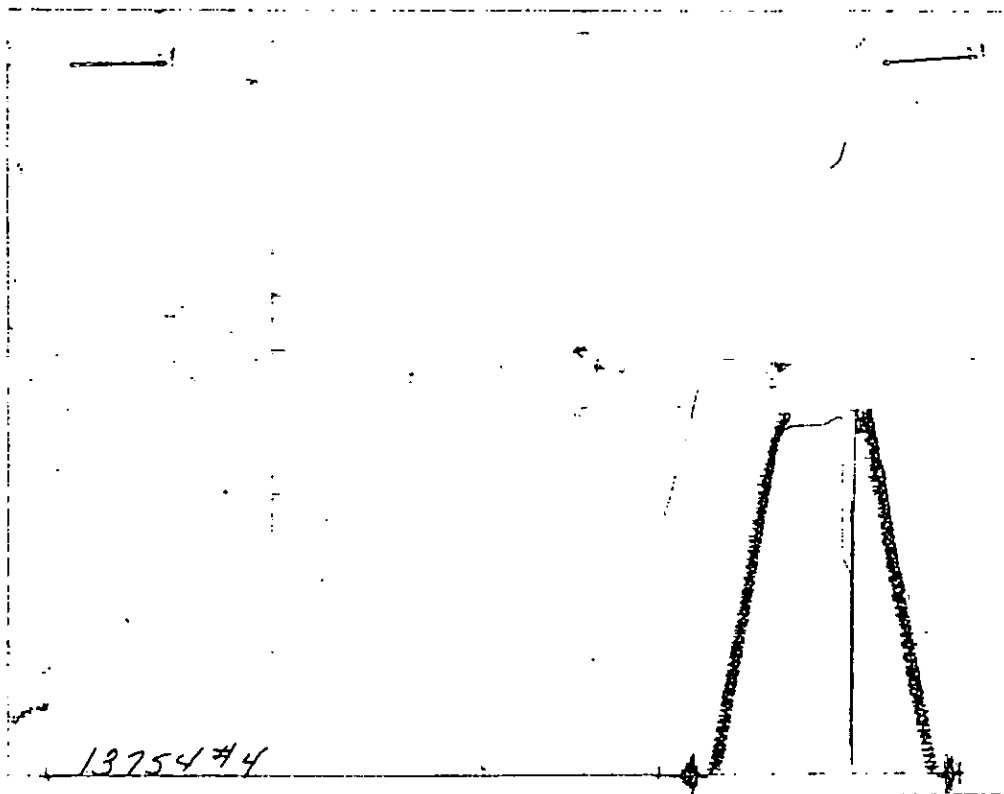
(F) Second Final Flow Pressure 0.0 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 0.0 PSI Initial Opening 10 Final Flow 0

(H) Final Hydrostatic Mud 1866.0 PSI Initial Shut-in 30 Final Shut-in 0

Our Representative DAN BANGLE

CHART PAGE



- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

15-051-24879-00-00

Well Name WOLF #7 Test No. 5 Date 10/28/94
Company HALLWOOD PETROLEUM INC. Zone ARBUCKLE
Address P.O. BOX 378111 DENVER CO 80237-8111 Elevation 2076
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN #3 Est. Ft. of Pay _____
Location: Sec. 4 Twp. 13S Rge. 17W Co. ELLIS State KS

Interval Tested	<u>3548-3595</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>47</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>3543</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>3548</u>	Mud Wt.	<u>9.4</u> lb/Gal.
Total Depth	<u>3595</u>	Viscosity	<u>45</u>
		Filtrate	<u>11.2</u>

Tool Open @ 1:52 P.M. Initial Blow WEAK-STEADY SURFACE BLOW-PLUGGED ON INTIAL FLOW

Final Blow WEAK-SURFACE BLOW-FLUSHED TOOL-GOOD SURGE

Recovery - Total Feet 5 Flush Tool? YES

Rec. <u>5</u>	Feet of	<u>DRILLING MUD WITH A FEW OIL SPOTS</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 12000 ppm System

(A) Initial Hydrostatic Mud 1883.9 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 0.0 PSI @ (depth) 3552 w / Clock No. 25810

(C) First Final Flow Pressure 0.0 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 0.0 PSI @ (depth) 3591 w / Clock No. 27501

(E) Second Initial Flow Pressure 32.4 PSI AK1 Recorder No. _____ Range _____

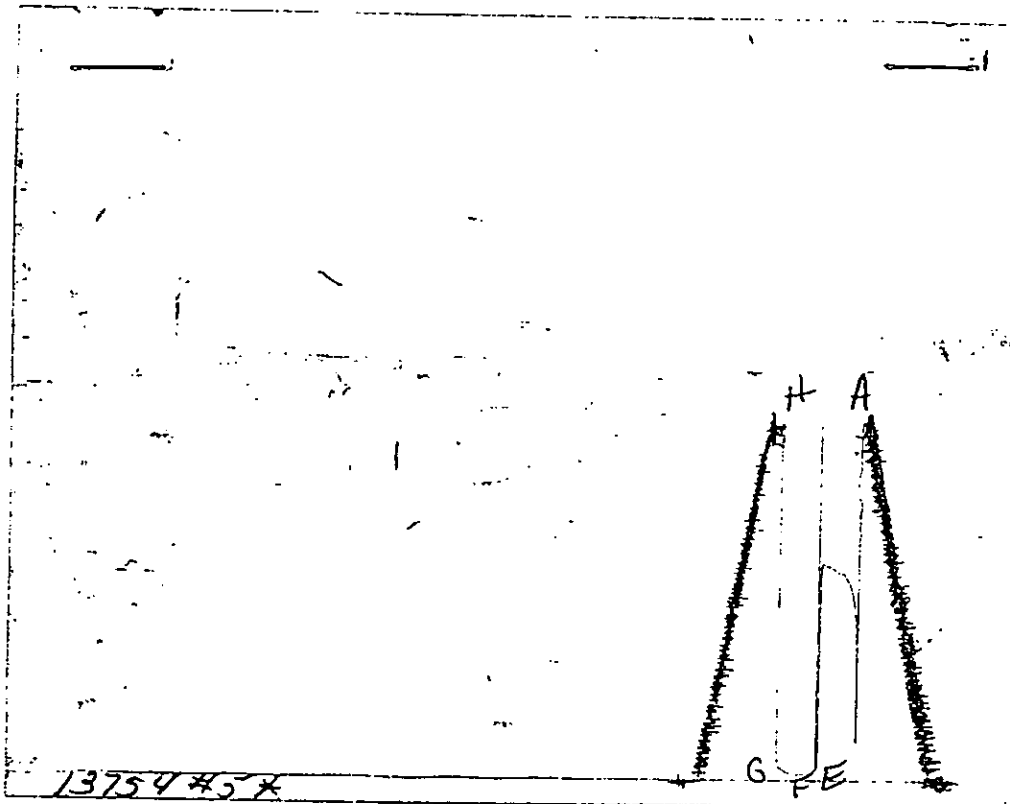
(F) Second Final Flow Pressure 32.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 71.8 PSI Initial Opening 15 Final Flow 15

(H) Final Hydrostatic Mud 1851.9 PSI Initial Shut-in 15 Final Shut-in 15

Our Representative DAN BANGLE

CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1886	1883.9
(B) FIRST INITIAL FLOW PRESSURE	0	0
(C) FIRST FINAL FLOW PRESSURE	0	0
(D) INITIAL CLOSED-IN PRESSURE	0	0
(E) SECOND INITIAL FLOW PRESSURE	39	32.4
(F) SECOND FINAL FLOW PRESSURE	39	32.4
(G) FINAL CLOSED-IN PRESSURE	59	71.8
(H) FINAL HYDROSTATIC MUD	1836	1851.9

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15051-24879-0000

Drill-Stem Test Data

Well Name WOLF #7 Test No. 6 Date 10/28/94
Company HALLWOOD PETROLEUM INC. Zone ARBUCKLE
Address P.O. BOX 378111 DENVER CO 80237-8111 Elevation 2076
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN #3 Est. Ft. of Pay _____
Location: Sec. 4 Twp. 13S Rge. 17W Co. ELLIS State KS

Interval Tested 3595-3604 Drill Pipe Size 4.5" XH
Anchor Length 9 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3590 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3595 Mud Wt. 9.4 lb/Gal.
Total Depth 3604 Viscosity 48 Filtrate 11.2

Tool Open @ 11:45 P.M. Initial Blow WEAK-BUILDING TO 1/2"

Final Blow NO BLOW-FLUSHED TOOL-WEAK BLOW FOR 10 MIN

Recovery - Total Feet 10 Flush Tool? YES

Rec. 1 Feet of CLEAN OIL
Rec. 9 Feet of DRILLING MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

API 111 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 12000 ppm System

A) Initial Hydrostatic Mud 1898.9 PSI AK1 Recorder No. 13754 Range 4000

B) First Initial Flow Pressure 18.7 PSI @ (depth) 3597 w / Clock No. 25810

(C) First Final Flow Pressure 18.7 PSI AK1 Recorder No. 13849 Range 4375

(D) Initial Shut-in Pressure 47.2 PSI @ (depth) 3600 w / Clock No. 27501

E) Second Initial Flow Pressure 18.7 PSI AK1 Recorder No. _____ Range _____

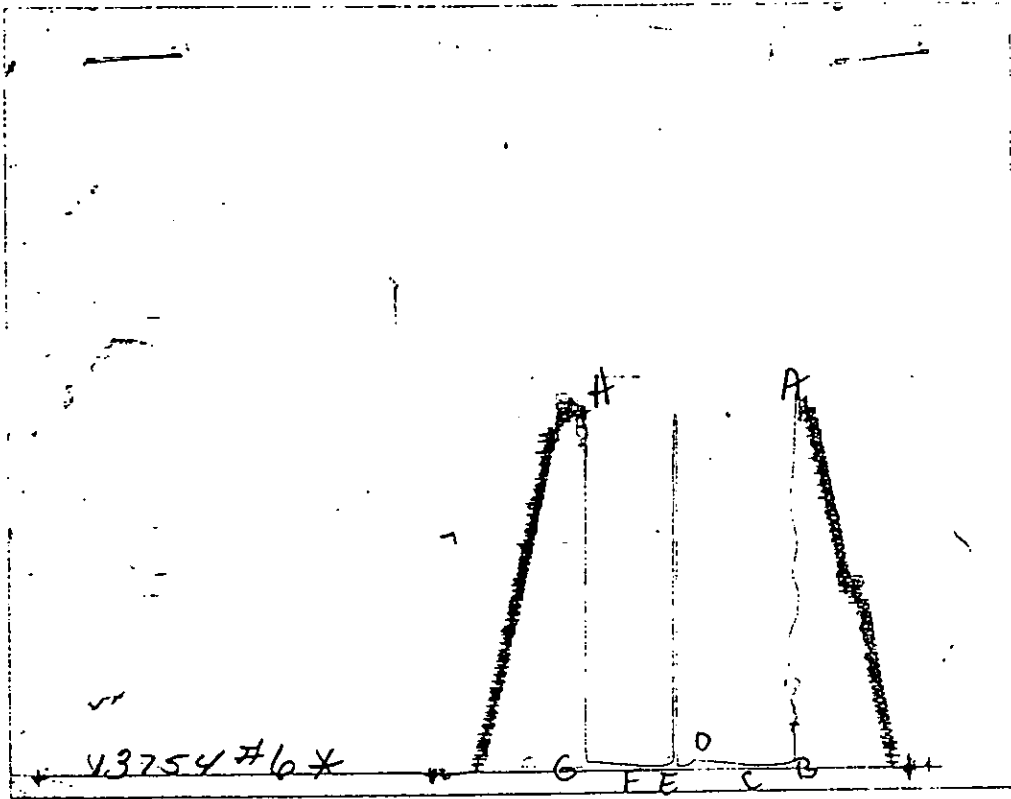
F) Second Final Flow Pressure 18.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 49.2 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1840.9 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative DAN BANGLE

CHART PAGE



	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1916	1898.9
(B) FIRST INITIAL FLOW PRESSURE	29	18.7
(C) FIRST FINAL FLOW PRESSURE	29	18.7
(D) INITIAL CLOSED-IN PRESSURE	49	47.2
(E) SECOND INITIAL FLOW PRESSURE	29	18.7
(F) SECOND FINAL FLOW PRESSURE	29	18.7
(G) FINAL CLOSED-IN PRESSURE	49	49.2
(H) FINAL HYDROSTATIC MUD	1886	1840.9

Hallwood Energy Companies

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

April 22, 1996

15-051-24879-00-00

Mr. Jim Hemmen
Kansas Corporation Commission
Wichita State Office Building
130 S. Market, Room 2078
Wichita, Kansas 67202

RE: Wolf #7
Section 4-T13S-R17W

Dear Mr. Hemmen:

As per your request, please find enclosed the production casing cementing tickets for the above captioned well.

If further information is required, please free to contact me at (303) 850-6257.

Sincerely,

HALLWOOD PETROLEUM, INC.



Nonya K. Durham
Production Technician

NKD/jea

Enclosures

NKD96.055

RECEIVED
KANSAS CORP COM
1996 APR 24 A 11:04

JOB LOG FORM 2013 R-4

CUSTOMER *Hallwood Pet Co* WELL NO. *5* LEASE *wolf* JOB TYPE *Surface Ppo* TICKET NO. *599487*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							<i>Added out to cement 217' surf pipe w/ 100 SKS 40/60 P12 2 3/4 gal 3 3/4 cc + 100 SKS 40/60 P02 11 gal 3 3/4 cc</i>
	1700							<i>in log 0.19 @ 180'</i>
	1935							<i>4 1/2 mds 219' circulate made 2 Dummy trips, hole tight</i>
	2200							<i>ST. 2 3/4" casing 23'</i>
	2240							<i>casing to TD</i>
	2250							<i>Hookup to mud pump & circ.</i>
	2251					100		<i>Hookup to pump 1/2 K & ST mix cement 100 SKS 40/60 P02 2 3/4 gal 3 3/4 cc</i>
								<i>100 SKS 40/60 P02 11 gal 3 3/4 cc</i>
	0310		42			100		<i>cm. mixed Red plug 4 ST. DISAL 25 SKS</i>
								<i>Follow up wire line, cement to pit</i>
	2325					300		<i>plug pumped to 175' shut down</i>
								<i>pull out wire line, shut in @ well</i>
	2330							<i>Wash & rack up equipment</i>
								<i>Job complete</i>
								<i>Thank you</i>
								<i>Tom Glavin</i>
								<i>15051-24879-00-00</i>

WELL DATA

15051-24879-00:00

FIELD _____ SEC. 5 TWP. 13^S RNG. 17^W COUNTY Ellis STATE KS

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	23'	3 1/2"	KB	215	
LINER						
TUBING						
OPEN HOLE				219	219	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 10-20-79	DATE 10-20-79	DATE 10-20-79	DATE 10-20-79
TIME 17:30	TIME 17:00	TIME 22:00	TIME 23:15

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS 5.4 2 1/2	1	Halliburton
BOTTOM PLUG 1A-11 2 1/2	1	Halliburton
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
K. K. ...	45724	Hayes, KS
D. ...	51374	"
M. ...	5252-2623	"

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____
 PROP. TYPE _____ SIZE _____ LB. _____
 ACID TYPE _____ GAL. _____ % _____
 SURFACTANT TYPE _____ GAL. _____ IN _____
 NE AGENT TYPE _____ GAL. _____ IN _____
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____
 BREAKER TYPE _____ GAL.-LB. _____ IN _____
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT Cent
 DESCRIPTION OF JOB Cent 217' 8 1/2' surf. pipe
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE X Owen W. ...
 HALLIBURTON OPERATOR Tom ... COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	100	1516	P12	B	27921 35ACC	1.27	14.8
	100	1516	P12	B	10921 35ACC	1.29	14.8

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 20 REASON Customer Request

SUMMARY

VOLUMES

PRESLUSH: BBL-GAL _____ TYPE _____
 LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 17.8
 CEMENT SLURRY: BBL-GAL 22.6 19.4
 TOTAL VOLUME: BBL-GAL _____

REMARKS

Shady

CUSTOMER RELEASE DATE 10-20-79



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 577487

FORM 1911 R-10

CUSTOMER Hallvodd Petroleum

WELL Wolf #7

DATE 10-20-94

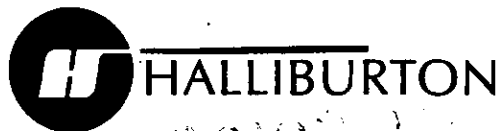
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			U/M		U/M		
504-136		1		B	40/60 Pozmix Standard	200				6 57	1,314 00
506-121		1		B	2sk Halliburton Gel02%W/100Poz						n/c
509-406		1		B	Calcium Chloride Blended	5				36 75	183 75
ORIGINAL											
/575124879.0000											
500-207		1		B	SERVICE CHARGE					1 35	283 50
500-306		1		B	MILEAGE CHARGE					95	127 22
					TOTAL WEIGHT	16,740					
					LOADED MILES	16					
					TON MILES	133.92					
CONTINUATION TOTAL											1,908.47

No. B 232575

CUSTOMER COPY

INVOICE



ORIGINAL

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE NO.	DATE
722620	10/30/1994

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
WOLF 7	ELLIS	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
HAYS	ALLEN DRILLING CO	CEMENT PRODUCTION CASING	10/30/1994
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
355880	AVEN WEAVERLING		
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	79717

HALLWOOD PETROLEUM, INC.
P.O. BOX 404
PLAINVILLE, KS 67663-0404

DIRECT CORRESPONDENCE TO:
OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OR 73102-5601

15,051,248.79-00-00

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
DRILLING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	32	MI	2.75	88.00
		1	UNT		
001-016	CEMENTING CASING	3663	FT	1,570.00	1,570.00
		1	UNT		
007-161	MULT STAGE CEMENTING-ADD STAGE	1	STG	1,400.00	1,400.00
		1	UNT		
019-241	CASING SWIVEL W/O WALL CLEANER	1	JOB	185.00	185.00
014-163	CLAYFIX II	2	CAL	24.00	48.00
25	INSERT VALVE F. S. - 5 1/2" 8RD	1	EA	350.00	350.00
847.6318					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	55.00	55.00
215.19315					
10	CENTRALIZER 5-1/2" X 7 7/8"	10	EA	44.00	440.00
807.93022					
21	CEMENTER-TYPE P ES 5-1/2 8RD	1	EA	2,450.00	2,450.00
813.56325					
25	PLUG SET - FREE FALL - 2-STAGE	1	EA	460.00	460.00
213.16510					
20	CEMENT BASKET 5 1/2"	5	EA	110.00	550.00
800.8883					
504-308	CEMENT - STANDARD	200	SK	7.82	1,564.00
504-316	CEMENT - HALL. LIGHT STANDARD	450	SK	7.37	3,316.50
509-968	SALT	400	LB	.15	135.00
507-210	FLOCCEL	138	IB	1.65	227.70
507-775	HALAD-322	142	LB	7.00	994.00
508-127	CAL SEAL 60	9	SK	25.90	233.10
508-291	GILSONITE BULK	1000	LB	.40	400.00
500-207	BULK SERVICE CHARGE	704	CFT	1.35	950.40
500-306	MILEAGE CMTG MAT DEL OR RETURN	489.280	TNT	.95	464.82
INVOICE SUBTOTAL					15,881.52

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

AFFIX JOB TRK

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

FORM HAL-1900-F

PAGE: 2

CUSTOMER COPY



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

INVOICE NO.	DATE
722620	10/30/1994

ORIGINAL

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
WOLF 7		ELLIS		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
HAYS	ALLEN DRILLING CO	CEMENT PRODUCTION CASING		10/30/1994	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
355880	AVEN WEAVERLING			COMPANY TRUCK	79717

HALLWOOD PETROLEUM, INC.
P.O. BOX 404
PLAINVILLE, KS 67663-0404

DIRECT CORRESPONDENCE TO:
OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OR 73102-5601

15:05124879.00-00

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	DISCOUNT- (BID)				3,606.80-
	INVOICE BID AMOUNT				12,274.72
	*-KANSAS STATE SALES TAX				467.19
	*-HAYS CITY SALES TAX				95.33
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$12,837.24

APPENDIX JOB TKT

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

FORM HAL-1900-F



HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

CUSTOMER Hollywood Petroleum	WELL Wolf#7	DATE 10-30-94	PAGE 2	OF 2
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
504-308		1		B	Standard Cement	200				7 82	1,564	00
504-316		1		B	Halliburton Light Cement	450				7 37	3,316	50
509-968		1		B	Salt Blended	900	lb			15	135	00
507-210		1		B	Flococela Blended	138	lb			1 65	227	70
507-775		1		B	Halad-322 Blended W/ Port	142	lb			7 00	994	00
508-127 XXXXXXXXXX		1		B	Cal Seal Blended W/ Standard	9				25 90	233	10
508-291		1		B	Gilsonite Blended	1000	lb			40	400	00
500-207		1		B	SERVICE CHARGE	CUBIC FEET		704		1 35	950	40
500-306		1		B	MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES		95	464	82
						61,160	16	489.280				

ORIGINAL

1505124879.00.00

HALLIBURTON ENERGY SERVICES
 1505124879.00.00

No. B 232686

CONTINUATION TOTAL **8,285.52**



CHARGE TO: **HALLWOOD PETROLEUM INC.**
 ADDRESS: **Box 404**
 CITY, STATE, ZIP CODE: **PLATZVILLE KS 67663**

CUSTOMER COPY
 No. **722620 - 8**
 PAGE **1** OF **2**
 15-051-24879-00-00

1. SERVICE LOCATIONS HAYS, KS	WELL/PROJECT NO. 7	LEASE WOLF	COUNTY/PARISH ELLIS	STATE KS	CITY/OFFSHORE LOCATION	DATE 10-30-94	OWNER SAME
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR ALLEN OQUELENG	RIG NAME/NO.	SHIPPED VIA 51143	DELIVERED TO LOUJRW	ORDER NO.	
3. WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO. 15-051-24979	WELL LOCATION S 4 - 13S - 17W			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	
000-117		1			MILEAGE 51143	32	MG	2.75		88.00
001-016		1			PUMP SERVICE 1ST STAGE	3683	FT	1570.00		1570.00
007-161		1			PUMP SERVICE 2ND STAGE	2527	FT	1400.00		1400.00
019-341		1			ROTATING HEAD	1	EA	185.00		185.00
314-163		1			CUMMINS II	2	GA	24.00		48.00
26	847.6318	1			ESSET VALVE FLOAT SHOE	1	EA	350.00		350.00
27	813.19315	1			FOL UP UNIT	1	EA	55.00		55.00
40	807.93022	1			CENTRALIZERS S-4	10	EA	44.00		440.00
71	813.56325	1			ES-CEMENTER TYPE-P	1	EA	2450.00		2450.00
75	813.16310	1			TWO STAGE PLUG SET	1	EA	460.00		460.00
320	800.8823	1			BASKETS	5	EA	110.00		550.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *Allen Oquele*
 DATE SIGNED: **10-30-94** TIME SIGNED: **0100** **2** A.M.

do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS:
 PULLED & RETURN PULLED RUN

TYPE LOCK	DEPTH	
BEAN SIZE	SPACERS	
TYPE OF EQUALIZING SUB.	CASING PRESSURE	
TUBING SIZE	TUBING PRESSURE	WELL DEPTH
TREE CONNECTION	TYPE VALVE	

SURVEY

AGREE	UN-DECIDED	DIS-AGREE
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	7596.00
FROM CONTINUATION PAGE(S)	8285.52
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	15881.52

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) Allen Oquele	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>Allen Oquele</i>	HALLIBURTON OPERATOR/ENGINEER WAYNE WOOD	EMP # 89277	HALLIBURTON APPROVAL <i>[Signature]</i>
--	---	--	-----------------------	--

30701E 207-C-08M.

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
HALLWOOD PETROLEUM		7		WDLF		LONGSTRING		722620	
CHART NO.	TIME	RATE (BPM)	VOLUME (BB) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	2200							ORIGINAL	CALLED OUT 10-29
	2330								ON LOCATION 10-29 DISCUSS JOB PROCEDURES
1	0335								BREAK CIRCULATION - MUD PUMP
	0450	6	25		✓		250		PUMP CLAYTEX II PREFLUSH
	0457	6	0		✓		250		START MIXING CEMENT
	0504		47.8				200		FINISH MIXING CEMENT
	0505								FLUSH PUMP - LEDES
	0510								RELEASE PLUG
	0515	6 1/2	0		✓		400		DISPLACE PLUG (BY WIRELINE) 3665'
	0534		88.4				800		PLUG DOWN (26 WATER - 62.4 MUD)
	0537						800		RELEASE PSZ OK FLOAT HELD
	0609								DROP BY OPENING PLUG
	0616		12				700		OPN BY WATER MUD CIRCULATE (4 HRS) MUD PUMP
	1017	6	0		✓		150		START MIXING CEMENT - PLUG RATHOLE
	1040		157.9						FINISH MIXING CEMENT
	1041								FLUSH PUMP - LEDES
	1042		0						RELEASE CLOSING PLUG
	1044	6			✓		700		DISPLACE PLUG (BY WIRELINE) 2537'
	1054		61.3				1700		PLUG DOWN (WATER) OK RELEASE PSZ - HELD CIRCULATED 0 SK CEMENT TO PSZ WASH-UP RACK-UP
	1200								JOB COMPLETE
									THANK YOU WAYNE E. WILSON DAVE ASH MIKE GANTT



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

WELL DATA
HAYS KS - 15051-24879-00-00 BILLED ON TICKET NO. 722520

WELL DATA

FIELD _____ SEC 4 TWP 13s RNG 17W COUNTY ELLIS STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>ADJ. JO</u>	<u>1</u>	<u>HOWCO</u>
FLOAT SHOE	<u>1</u>	<u>"</u>
GUIDE SHOE		
CENTRALIZERS	<u>10</u>	<u>BAKER</u>
BOTTOM PLUG		
TOP PLUG <u>PISTON</u>	<u>1</u>	<u>HOWCO</u>
HEAD <u>PC</u>	<u>1</u>	<u>"</u>
PACKER <u>PC</u>	<u>1</u>	<u>"</u>
OTHER <u>RAWTS</u>	<u>5</u>	<u>"</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ LB/GAL. API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL.

ACID TYPE _____ GAL.

ACID TYPE _____ GAL.

SURFACTANT TYPE _____ GAL. IN.

NE AGENT TYPE _____ GAL. IN.

FLUID LOSS ADD. TYPE _____ GAL-LB. IN.

GELLING AGENT TYPE _____ GAL-LB. IN.

FRIC. RED. AGENT TYPE _____ GAL-LB. IN.

BREAKER TYPE _____ GAL-LB. IN.

BLOCKING AGENT TYPE _____ GAL-LB. IN.

PERFFAC BALLS TYPE _____ QTY.

OTHER _____

OTHER _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>X</u>	<u>14/15.5</u>	<u>5 1/2</u>	<u>KR</u>	<u>3682</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>3682</u>	<u>3683</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-29</u>	DATE <u>10-29</u>	DATE <u>10-30</u>	DATE <u>10-30</u>
TIME <u>2200</u>	TIME <u>2230</u>	TIME <u>0330</u>	TIME <u>1200</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>W. W. WOOD</u>	<u>R9377</u>	<u>39604</u>
		<u>COM80</u>
<u>D. ASH</u>	<u>F1609</u>	<u>51143</u>
		<u>BULK</u>
<u>M. GANT</u>	<u>R1231</u>	<u>3617-8206</u>
		<u>BULK</u>
<u>M. GANT</u>	<u>R1231</u>	<u>51252-7603</u>

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT PRODUCTION CASE

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN

CUSTOMER REPRESENTATIVE X AVEE WEAVER

HALLIBURTON OPERATOR Wayne W. K. COPIES REQUESTED 1

CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>100</u>	<u>SW-FA</u>		<u>B</u>	<u>10% SALT, .75 HAUM 322, 5% CALSAL, 5% GEL</u>	<u>1.34</u>	<u>15.2</u>
<u>1</u>	<u>100</u>	<u>SW-FA</u>		<u>B</u>	<u>10% SALT, .75 HAUM 322, 5% CALSAL, 5% GEL</u>	<u>1.34</u>	<u>15.2</u>
<u>2</u>	<u>450</u>	<u>III</u>		<u>B</u>	<u>1/4 # FLOCEL PKG</u>	<u>1.97</u>	<u>12.4</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____ PRES LUSH: EBL GAL. 25 TYPE CALTEX II

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL. _____ DISPL. EBL GAL. 88.4

SHUT-IN: INSTANT _____ 5-MIN. 110 15-MIN. 110 CEMENT SLURRY EBL GAL. 23.9 - 23.9 = 47.8 157.9

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 2248 REASON RAFFIS

REMARKS

TOTAL P.D.S. - 3687 (RAWTS)

CUMULATIVE - 1,369 1/2 (28,32,50,60,76)

D.V. 7001 - 2527 # 24

1656' 15.5" # 2031 14"

FIELD OFFICE

CUSTOMER: HALLIBURTON PERFORMUM
LEASE: WOLF
WELL NO: 7
JOB TYPE: 10-30-94