

ORIGINAL

SIDE ONE

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

Operator: License # 03613

Name: Hallwood Petroleum, Inc.

Address 4582 S. Ulster St. PKWY #1700
P.O. Box 378111

City/State/Zip Denver, CO 80237

Purchaser: N/A

Operator Contact Person: George Hutton

Phone (316) 792-2756

Contractor: Name: Duke Drilling

License: 5929

Wellsite Geologist: Scott Alberg

Designate Type of Completion

New Well Re-Entry Workover
 Oil SWD Temporarily Abandoned
 Gas Inj Delayed Completion
 Dry Other (Core, Water Supply, etc.)

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

8/16/90 8/23/90

Spud Date Date Reached TD Completion Date

API NO. 15- 185-22,704 • 0000

County Stafford

NW NE SW Sec. 32 Twp. 21 Rge. 13 East West

2310 Ft. North from Southeast Corner of Section

3630 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

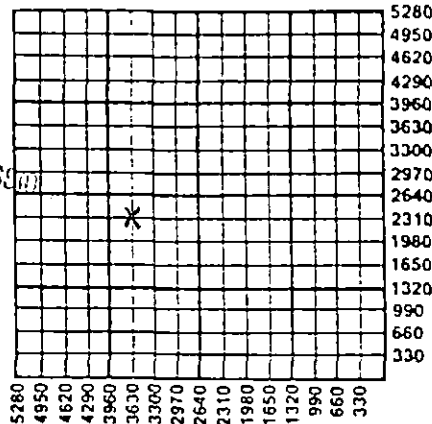
Lease Name Hufford Well # 1

Field Name Hufford

Producing Formation N/A

Elevation: Ground 1901 KB 1906

Total Depth 4100 PBTD _____



A 17-2

Amount of Surface Pipe Set and Cemented at 312 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 785' Feet

If Alternate II completion, cement circulated from 785'

feet depth to surface w/ 200 sx cmt.

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 confidentially 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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 *Marvin Ball*

Title _____ Date 2/12/92

Subscribed and sworn to before me this 12th day of February, 19 92.

Notary Public *Richard Kans*

Date Commission Expires May 21, 1994

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

91

JAN 1960

SIDE TWO

Operator Name Hallwood Petroleum, Inc. Lease Name Hufford Well # 1
County Stafford
Sec. 32 Twp. 21 Rge. 13
 East West

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

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description <input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample																																	
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																		
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																		
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																		
<table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>Topeka</td><td>2889'</td><td>(-983)</td></tr> <tr><td>Heebner</td><td>3264'</td><td>(-1358')</td></tr> <tr><td>Toronto</td><td>3285'</td><td>(-1379')</td></tr> <tr><td>Douglas Shale</td><td>3301'</td><td>(-1395')</td></tr> <tr><td>Brown Lime</td><td>3392'</td><td>(-1486')</td></tr> <tr><td>Lansing</td><td>3403'</td><td>(-1497')</td></tr> <tr><td>Viola</td><td>3676'</td><td>(-1770')</td></tr> <tr><td>Simpson Shale</td><td>3722'</td><td>(-1816')</td></tr> <tr><td>Simpson Sand</td><td>3730'</td><td>(-1824')</td></tr> <tr><td>Arbuckle</td><td>3770'</td><td>(-1864')</td></tr> </tbody> </table>			Name	Top	Bottom	Topeka	2889'	(-983)	Heebner	3264'	(-1358')	Toronto	3285'	(-1379')	Douglas Shale	3301'	(-1395')	Brown Lime	3392'	(-1486')	Lansing	3403'	(-1497')	Viola	3676'	(-1770')	Simpson Shale	3722'	(-1816')	Simpson Sand	3730'	(-1824')	Arbuckle	3770'	(-1864')
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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"	24#	312	40/60 poz	235	see attached
Production	7 7/8"	5 1/2"	14#	3900	1st-60/40poz 2nd-lite	200 200	

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	N/A		

TUBING RECORD Size N/A Set At _____ Packer At _____ Liner Run Yes No

Date of First Production _____ Producing Method Flowing Pumping Gas Lift Other (Explain) SWD

Estimated Production Per 24 Hours	Oil <u>0</u> Bbls.	Gas <u>0</u> Mcf	Water <u>0</u> Bbls.	Gas-Oil Ratio <u>0</u>	Gravity _____
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled
 Other (Specify) SWD

HALLWOOD PETROLEUM, INC. ORIGINAL

HUFFORD #1

Sec. 32-T21S-R13W
API #185-22,704

Surface:

175 sks 40/60 poz w/3% cc, 2% gel and 60 sks 40/60 w/3% cc, no gel.

Production:

100 sks 40/60 poz w/2% gel, 10% salt and 100 sks 40/60 no gel, 10% salt, 5# sk gilsonite. Cemented upper stage w/200 sx Haliburton Lite.

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 14 1992

CONSERVATION DIVISION
WICHITA, KS

TRILOBITE TESTING COMPANY ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No. <u>HUFFORD #1</u>	Test No. <u>1</u>	Date <u>8/21/90</u>
Company <u>HALLWOOD PETROLEUM INC</u>	Zone Tested <u>KS CITY</u>	
Address <u>P.O. BOX 378111 DENVER CO 80237</u>	Elevation <u>1905 GL</u>	
Co. Rep./Geo. <u>MR SCOTT ALBERG</u>	Cont. <u>DUKE #1</u>	Est. Ft. of Pay <u>0</u>
Location: Sec. <u>32</u> Twp. <u>21S</u> Rge. <u>13W</u>	Co. <u>STAFFORD</u>	State <u>KANSAS</u>

Interval Tested <u>3580-3648</u>	Drill Pipe Size <u>4.5" FH</u>
Anchor Length <u>68</u>	Top Choke — 1" _____ Bottom Choke — ¾" _____
Top Packer Depth <u>3575</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>3580</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>900</u>
Total Depth <u>3648</u>	Drill Collar — 2.25 Ft. Run <u>0</u>
Mud Wt. <u>9.4</u> lb/gal.	Viscosity <u>41</u> Filtrate <u>10.8</u>
Tool Open @ <u>6:00 AM</u> Initial Blow _____	VERY WEAK THROUGHOUT

Final Blow VERY WEAK THROUGHOUT

Recovery — Total Feet <u>30</u>	Flush Tool? <u>NO</u>
Rec. <u>90</u> Feet of <u>GAS IN PIPE</u>	
Rec. <u>0</u> Feet of _____	
Rec. <u>30</u> Feet of <u>OIL CUT MUD-15%OIL/85% MUD</u>	
Rec. <u>0</u> Feet of _____	
Rec. <u>0</u> Feet of _____	

BHT <u>118</u>	°F Gravity _____	°API @ <u>0</u>	°F Corrected Gravity <u>0</u>	°API <u>0</u>
RW _____ @ _____	°F Chlorides <u>1861.2</u>	ppm Recovery _____	Chlorides <u>6000</u>	ppm System <u>4400</u>
(A) Initial Hydrostatic Mud _____	PSI <u>1861.2</u>	AK1 Recorder No. <u>10248</u>	Range _____	<u>4400</u>
(B) First Initial Flow Pressure _____	PSI <u>62.3</u>	@ (depth) <u>3610</u>	w/Clock No. _____	<u>27501</u>
(C) First Final Flow Pressure _____	PSI <u>74.5</u>	AK1 Recorder No. <u>13615</u>	Range _____	<u>4525</u>
(D) Initial Shut-In Pressure _____	PSI <u>91.2</u>	@ (depth) <u>3648</u>	w/Clock No. _____	<u>27567</u>
(E) Second Initial Flow Pressure _____	PSI <u>72.6</u>	AK1 Recorder No. <u>0</u>	Range _____	<u>0</u>
(F) Second Final Flow Pressure _____	PSI <u>81.4</u>	@ (depth) <u>0</u>	w/Clock No. _____	<u>0</u>
(G) Final Shut-In Pressure _____	PSI <u>101.2</u>	Initial Opening <u>30</u>		
(H) Final Hydrostatic Mud _____	PSI <u>1860.3</u>	Initial Shut-In <u>30</u>		
		Final Flow <u>30</u>		
		Final Shut-In <u>60</u>		

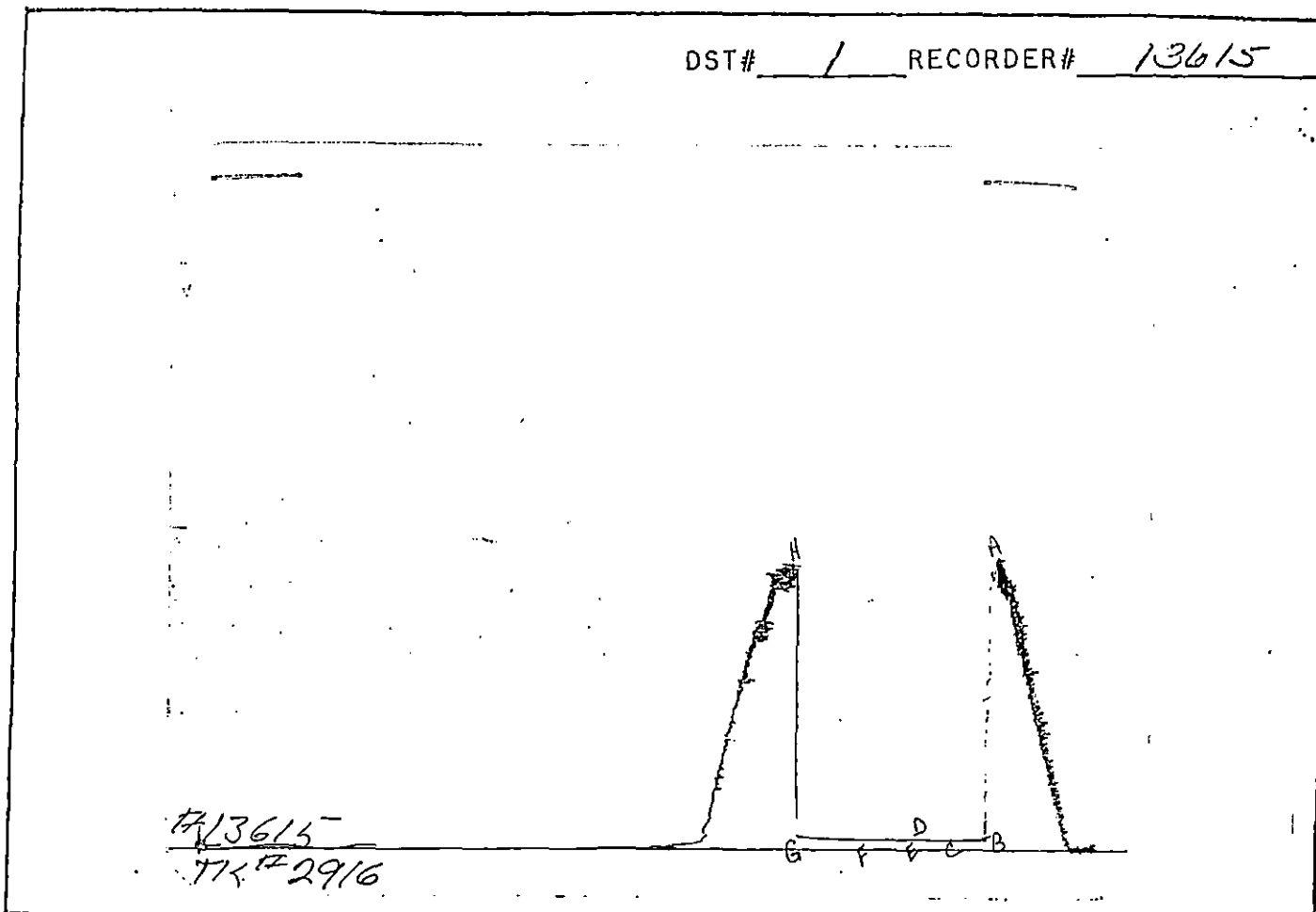
MR HARRY SCHMIDT

350

Our Representative _____

TOTAL PRICE \$ _____

DST# 1 RECORDER# 13615



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1859	1861.2	PSI
(B) First Initial Flow Pressure.....	56	62.3	PSI
(C) First Final Flow Pressure.....	67	74.5	PSI
(D) Initial Closed-in Pressure.....	90	91.2	PSI
(E) Second Initial Flow Pressure.....	67	72.6	PSI
(F) Second Final Flow Pressure.....	78	81.4	PSI
(G) Final Closed-in Pressure.....	99	101.2	PSI
(H) Final Hydrostatic Mud.....	1859	1860.3	PSI

TRILOBITE TESTING COMPANY ORIGINAL

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 2916 Date 8/21/90
Company Name HALLWOOD PETROLEUM INC
Lease HUFFORD #1 Test No. 1
County STAFFORD Sec. 32 Twp. 21S Rng. 13W

SAMPLER RECOVERY

Gas 0 ML
Oil 1000 ML
Mud 3000 ML
Water 0 ML
Other 0 ML
Pressure 0 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 6000 ppm.
Resistivity .9 ohms @ 80 F
Viscosity 41
Mud Weight 9.4
Filtrate 10.8
Other _____

SAMPLER ANALYSIS

Resistivity 0.9 ohms @ 80 F
Chlorides 6,000 ppm.
Gravity _____ corrected @ 80 F

PIPE RECOVERY

TOP
Resistivity 0.9 ohms @ 80 F
Chlorides 6,000 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

TEST TICKET

No. 2916

Well Name & No. HUFFORD #1 Test No. 1111 Date 8-21-90
Company HALLWOOD PETROLEUM INC. Zone Tested Ko City
Address P.O. BOX 37811 DENVER, CO. 80237 Elevation 1905 G.L.
Co. Rep./Geo. SCOTT ALBERG Cont. DONALD Est. Ft. of Pay _____
Location: Sec. 32 Twp. 21S Rge. 12W Co. STANBARD State K.S.
No. of Copies REC Distribution Sheet _____ Yes (No) Turnkey _____ Yes (No)

Interval Tested 3580 TO 3648 Drill Pipe Size 4 1/2" 1514
Anchor Length 68' Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth 3540 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth 4080 Wt. Pipe I.D. — 2.7 Ft. Run 900
Total Depth 3648 Drill Collar — 2.25 Ft. Run _____
Mud Wt. 9.4 lb/gal. Viscosity 41 Filtrate 10.8
Tool Open @ 6:00 A Initial Blow VERY WEAK THROUGHOUT
Final Blow VERY WEAK THROUGHOUT

Recovery — Total Feet 30' Flush Tool? NO
Rec. 30' Feet of OIL CUT MUD 15% OIL 85% MUD
Rec. _____ Feet of _____
Rec. 90 Feet of GAS IN PIPE
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 6000 ppm System
(A) Initial Hydrostatic Mud 1859 PSI AK1 Recorder No. 10248 Range 4400
(B) First Initial Flow Pressure 56 PSI @ (depth) 3610 w/Clock No. 27501
(C) First Final Flow Pressure 67 PSI AK1 Recorder No. 13615 Range 4725
(D) Initial Shut-In Pressure 90 PSI @ (depth) 3648 w/Clock No. 27562
(E) Second Initial Flow Pressure 67 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 78 PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure 99 PSI Initial Opening 30 Test 400 psi
(H) Final Hydrostatic Mud 1859 PSI Initial Shut-In 30 Jars _____
Final Flow 30 Safety Joint _____
Final Shut-In 60 Straddle _____

Approved By Scott Alberg Circ. Sub _____
Our Representative [Signature] Sampler 150 psi
Extra Packer _____
Other _____
TOTAL PRICE \$ 550.00