

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

COPY ORIGINAL

API NO. 15- 051-24,683 - 0000
County Ellis
C - NW - Sec. 18 Twp. 11 Rge. 17 X E
3960 Feet from S (circle one) Line of Section
3960 Feet from E (circle one) Line of Section

Operator: License # 03613
Name: Hallwood Petroleum, Inc.
Address 4582 S Ulster St. Parkway #1700
P.O. Box 378111
City/State/Zip Denver, CO 80237
Purchaser: Koch Oil Co.

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Carmichael A Well # 12

Operator Contact Person: George Hutton
Phone (316) 792-2756

Field Name Bemis Shutts
Producing Formation Arbuckle

Contractor: Name: Red Tiger Drilling Company
License: 5302

Elevation: Ground 1843 KB 1848
Total Depth 3483 PBSD _____

Wellsite Geologist: Jim Musgrove
Designate Type of Completion
 New Well _____ Re-Entry _____ Workover _____

Amount of Surface Pipe Set and Cemented at 1099 Feet
Multiple Stage Cementing Collar Used? _____ Yes No _____

Oil _____ SWD _____ S10W _____ Temp. Abd.
_____ Gas _____ ENHR _____ S16W _____
_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc) _____

If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____

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

feet depth to _____ w/ _____ sx cmt.

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD _____
_____ Plug Back _____ PBSD _____
_____ Commingled _____ Docket No. _____
_____ Dual Completion _____ Docket No. _____
_____ Other (SWD or Inj?) _____ Docket No. _____

Drilling Fluid Management Plan Air-I
(Data must be collected from the Reserve Pit)

8/29/90 9/8/90 10/1/90
Spud Date Date Reached TD Completion Date

_____ Solids content 8500 ppm Fluid volume 295 bbls
_____ Method used Evaporation

Location of fluid disposal if hauled offsite:
02-28-92
Operator Name _____
Lease Name _____ License No. _____

_____ 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 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 Marvin Ball
Title Sr. Eng. Tech. Date 2/27/92
Subscribed and sworn to before me this 27th day of February, 19 92.
Notary Public Calvin Davis
Date Commission Expires May 21, 1994

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

Operator Name Hallwood Petroleum, Inc.

Carmichael A

Well # 12

JAN 1990
ORIGINAL

Sec. 18 Twp. 11 Rge. 17

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	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1083' (+765')	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	2777' (-929')	
List All E.Logs Run:		Heebner	3002' (-1154')	
Dual Guard		Lansing	3044' (-1196')	
Coral		Base Kansas City	3280' (-1432')	
CDL/DSN		Arbuckle	3332' (-1484')	

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23	1099	Lite 60/40	500	See attached
Production	7 7/8"	5 1/2"	14	3482	common	200	

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
2	3332-36'			

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		2 7/8"	3457'	N/A				
Date of First, Resumed Production, SWD or Inj.			Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
10/1/90								
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	30		0		350		0	25

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: _____

HALLWOOD PETROLEUM, INC.

ORIGINAL

Carmichael A #12

Sec. 18-T11S-R17W
API #015-24,683

Surface:

300 sx HLC, 2% cc, 200 sx 60/40 poz, nogel. 1/4# Flocele/sk.

Production:

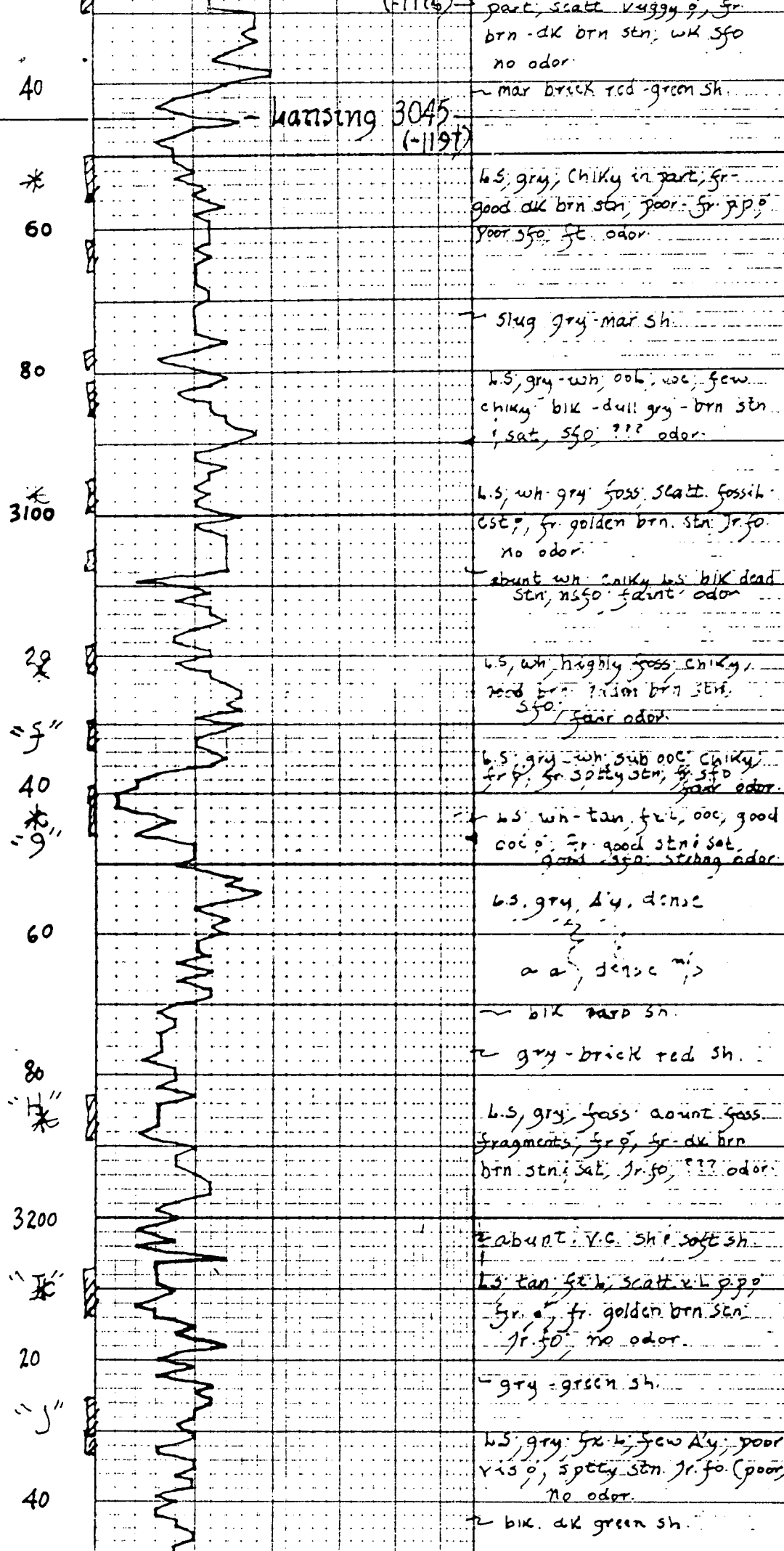
75 sx common 5% EA2, 10% salt .75% halid 322, 1/4# Flocele,
tailed w/125 sx common 5% EA2 10% salt, .75% Halid 322, 5#
gilsonite, 1/4# Flocele.

RECEIVED
KANSAS CORPORATION COMMISSION

FEB 28 1992

CONSERVATION DIVISION
WICHITA, KS

ORIGINAL



Handing 3045
(-1197)

(-1115) part; scatt. v. egg. g., fr. brn - dk brn stn; wk sfo no odor.
 ~ mar brick red - green sh.
 L.S. gray, cherty in part, fr. good dk brn stn; poor fr. p.p.; poor sfo. fr. odor.
 Slug gray-mar sh.
 L.S. gray-wh, ool. woc; few cherty blk - dull gray - brn stn; sat, sfo. ??? odor.
 L.S. wh-gray foss; scatt. fossil. CST, fr. golden brn. stn. Jr. fo. no odor.
 abunt wh. chalky L.S. blk dead stn, nsfo faint odor.
 L.S. wh, highly foss. cherty, mod fr. faint brn stn. sfo. fair odor.
 L.S. gray-wh, sub ool. cherty, fr. fr. spotty stn; fr. sfo. fair odor.
 L.S. wh-tan, f.c., ool., good ool. fr. good stn; sat. good sfo. strong odor.
 L.S. gray, dy. dense
 a a, dense m.
 blk hard sh.
 gray-brick red sh.
 L.S. gray, foss. abunt foss. fragments, fr. fr. dk brn brn stn; sat, Jr. fo. ??? odor.
 abunt. v.c. sh. soft sh.
 L.S. tan f.c., scatt. v.l. p.p. fr. fr. golden brn stn. Jr. fo. no odor.
 gray-green sh.
 L.S. gray, f.c. L.S. few dy.; poor vis o, spotty stn. Jr. fo. (poor) no odor.
 blk. dk green sh.

Drill Stem Test #1 3054-3090
30-45-45-60

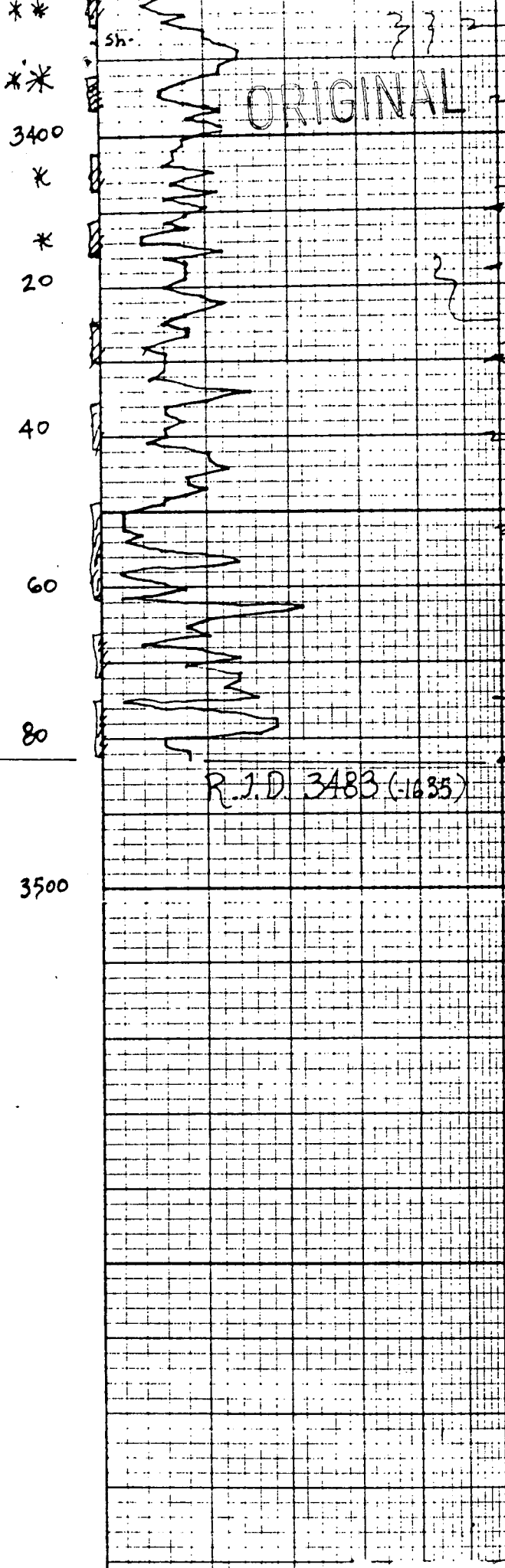
Blow: strong
 recovery; 750' gas in pipe
 5' oil specked mud
 120' oil specked watery mud
 240' muddy water
 pressures: Isup 259
 Ssup 259
 ISp 86-162
 SSP 194-227
 HSH 1520-1490

Drill Stem Test #2 3106-3146
30-45-30-45

Blow: weak to fair
 recovery; 70' gas in pipe
 62' slightly oil and water cut mud
 (5% oil, 5% water, 90% mud)
 pressures: Isup 151 psi
 Ssup 119 psi
 ISp 54-54 psi
 SSP 65-65 psi
 HSH 1537-1469 psi

Drill Stem Test #3 3185-3273
30-30-30-30

Blow: weak decreasing - initial
 no blow - final
 recovery; 5' mud
 pressures: Isup 442 psi
 Ssup 324 psi
 ISp 45-45 psi
 SSP 45-45 psi
 HSH 1717-1665 psi



good odor. fr. wh. A

dot. tan. med. x. l. fr. o. spity
str. sfo. good odor
+ fr. wh. A

dot. tan - gray. med. x. l. svs.
scat. o. spity. cr. wh. - golden
prn. sen. 1. sfo. good odor.
(f. good. sl. ggy. type o.)

dot. wh. coarse x. l.
good x. l. o. spity. fr. sen
s. sat. fr. sfo. good odor.

dot. aca. fr. sfo. s

dot. wh. tan. s. med. x. l. slightly
fr. spity. str. poor. sfo.
fair odor. good o.
+ wh. honey A

dot. gray. bc. 19c. fr. x. l. scat. o.
pink
poor vis. o. n/s
few good o.

dot. tan - gray. s. med. x. l.
good x. l. - vulggy. o. n/s

aaa + wh. ool. A

lost core -

aaa n/s
jan. pk. sfo. dot. few

Drill Stem Test #5 3348-3354
30-30-30-30
Blow; strong
recovery; 120' gas in pipe
590' slightly muddy
gassy oil
(15% gas, 70% oil, 15% mud)
60' oily water
(50% oil, 50% water)
60' oil cut water
(10% oil, 90% water)
1790' oil speckled water
pressures: Isip 1050 psi
Ssip 1030 psi
Isp 454-1050 psi
Ssp 1050-1050 psi
HSH 1645-1604 psi

Drill Stem Test #6 3386-3396
30-30-30-30
Blow; strong
recovery; 330' clean gassy oil
540' very heavy oil &
gas cut water
(40% oil, 40% water
20% gas)
120' oil cut water
(20% oil, 80% water)
890' oil speckled gassy
water
(39% oil, 97% water)
pressures: Isip 1152 psi
Ssip 1152 psi
Isp 108-548 psi
Ssp 620-835 psi
HSH 1707-1614 psi

Drill Stem Test #7 3400-3418
15-30-15-30
Blow; strong
recovery; 2540' water
pressures: Isip 1172 psi
Ssip 1172 psi
Isp 917-1172 psi
Ssp 1172-1172 psi
HSH 1728-1687 psi