

# 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 # 4511  
Name: William H. Davis  
Address 2800 Mid-Continent Tower  
  
City/State/Zip Tulsa, OK 74103  
Purchaser: Manchester Pipeline Corporation  
Operator Contact Person: Oran Hall  
Phone (918.) 587-7782

API NO. 15-077-21213-00-00  
County Harper ✓  
S/2 SW NE Sec. 35 Twp. 32S Rge. 5 East  
X West  
2970 ✓ Ft. North from Southeast Corner of Section  
1980 ✓ Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

Lease Name Hilliard ✓ Well # 1  
Field Name \_\_\_\_\_  
Producing Formation Stalnaker  
Elevation: Ground 1287 KB 1295  
Total Depth 4440 PBDT 3500

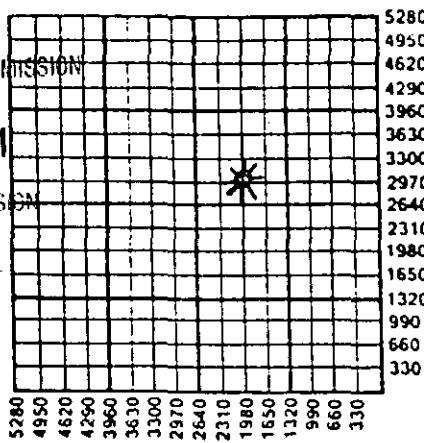
Contractor: Name: Duke Drilling  
License: 5929  
Wellsite Geologist: Paul Barker

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp. Abd.  
 Gas  Inj  Delayed Comp.  
 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  
9-25-90 10-03-90 10-23-91  
Spud Date Date Reached TD Completion Date

RECEIVED  
STATE CORPORATION COMMISSION  
NOV 13 1991  
OIL & GAS CONSERVATION DIVISION  
Wichita Kansas



Amount of Surface Pipe Set and Cemented at 273 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ 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 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. 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 *William H. Davis*  
Title Operator Date 11-12-91  
Subscribed and sworn to before me this 12th day of November,  
19 91.  
Notary Public *Tony Benavides*  
Date Commission Expires 3-27-94

**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)

81

**SIDE TWO**

Operator Name William H. Davis Lease Name Hilliard Well # 1  
 Sec. 35 Twp. 32 Rge. 5  East County \_\_\_\_\_  
 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No 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" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Formation Description</th> </tr> <tr> <th rowspan="2">Name</th> <th colspan="2"><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</th> </tr> <tr> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr> <td>Amazonia Im</td> <td>3085</td> <td></td> </tr> <tr> <td>Iatan Cm</td> <td>3342</td> <td></td> </tr> <tr> <td>Stalnaker SS</td> <td>3370</td> <td></td> </tr> <tr> <td>Kansas City Im</td> <td>3648</td> <td></td> </tr> <tr> <td>Miss. Chert</td> <td>4359</td> <td></td> </tr> </tbody> </table>	Formation Description			Name	<input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample		Top	Bottom	Amazonia Im	3085		Iatan Cm	3342		Stalnaker SS	3370		Kansas City Im	3648		Miss. Chert	4359	
Formation Description																								
Name	<input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample																							
	Top	Bottom																						
Amazonia Im	3085																							
Iatan Cm	3342																							
Stalnaker SS	3370																							
Kansas City Im	3648																							
Miss. Chert	4359																							

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 csq.	12 1/4"	8 5/8	24	273	60/40 Poz	200	2% Gel, 3% CaCl
Production Csq.	7 7/8"	4 1/2	10.5	3769	60/40 Poz	200	2% Gel, 10% Salt 6# Kolseal/sk.
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			
Shots Per Foot	Specify Footage of Each Interval Perforated			Depth			
4	3664'-69' (5')			500 gal. MCA 15%	3664'		
				4 1/2 CIBP	3500'		
4	3384'-89' (5')			500 gal. MSR 7 1/2%	3384'		
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing Method					
10-23-91		<input checked="" type="checkbox"/> Flowing <input 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		
	-0-	140	101				

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

**METHOD OF COMPLETION**

Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

ORIGINAL

HILLIARD #1  
C-S/2 SW NE  
Section 35-32S-5W  
Harper County, Kansas.

WILLIAM H. DAVIS  
COMMENCED: September 29, 1990  
COMPLETED: October 4, 1990


0' - 276' Surface & Shale  
276' - 1560' Shale  
1560' - 2925' Shale  
2925' - 3390' Shale & Lime  
3390' - 3940' Lime & Shale  
3940' - 4440' Lime & Shale  
4440' RTD

Surface Casing: Set 6 jts. 8-5/8" x 24# at 273'. Cemented with 200 sacks 60/40 Pozmix, 2% gel, 3% cc.  
Production Casing: Set 96 jts. 4 1/2" at 3769'. Cement with 200 sacks 60/40 Pozmix, 2% gel, 10% salt, 6# KolSeal per sack.

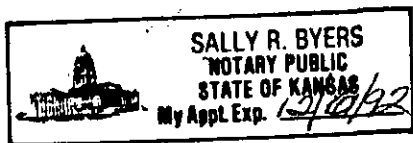
AFFIDAVIT

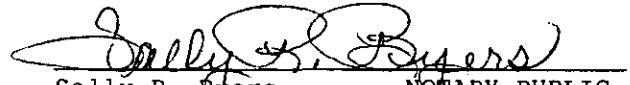
STATE OF KANSAS        )  
                                  ) SS:  
COUNTY OF SEDGWICK )

Ralph R. Hamilton, of lawful age, does swear and state that the facts and statements herein are true and correct to the best of his knowledge.

  
Ralph R. Hamilton

Subscribed and sworn to me this 17th day of October, 1990.



  
Sally R. Byers                       NOTARY PUBLIC

My Commission Expires: December 6, 1990.

RECEIVED  
STATE CORPORATION COMMISSION  
DEC 06 1991  
U.S. DEPARTMENT OF COMMERCE  
WASHINGTON, D.C. 20540



P.O. Box 4442  
Houston, Texas 77210

# ORIGINAL CEMENTING LOG

STAGE NO.

A Baker Hughes company

Date 10-4-90 District MED LODGE Ticket No. 611082  
Company Wm. H. DAVIS Rig TRANS PAC 1  
Lease HILLARD Well No. 1  
County HARPER State KANSAS  
Location 35-32S-5W Field \_\_\_\_\_

CASING DATA: PTA  Squeeze   
Surface  Intermediate  Production  Liner   
Size 4 1/2" Type USED Weight 10.5# Collar STC/C

Casing Depths: Top 8 5/8" BL- Bottom \_\_\_\_\_  
4 1/2" KB-3769'

Drill Pipe: Size 4 1/2" Weight 16.6# Collars XH  
Open Hole: Size 7 7/8" T.D. 4440 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
Casing: Bbls/Lin. ft. .0159 Lin. ft./Bbl. 62.7  
Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.5  
Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
Annulus: Bbls/Lin. ft. .6406 Lin. ft./Bbl. 24.6474  
Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
Perforations From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:  
Spacer Type 500 GALS REG MUD SWEEP/200# 20%  
Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_ Excess \_\_\_\_\_  
Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
TAIL: Pump Time \_\_\_\_\_ hrs. Type 40.60.2, 10 1/2 A.S Excess \_\_\_\_\_  
Amt. 200 Sks Yield 1.38 ft<sup>3</sup>/sk Density 14.3 PPG  
WATER: Lead \_\_\_\_\_ gals/sk Tail 5.9 gals/sk Total 28 Bbls.

Pump Trucks Used 1492 CARRY D  
Bulk Equip. 2903-6483 JOHN H.

Float Equip: Manufacturer BAKER  
Shoe: Type CEMENT Depth 3769  
Float: Type AFU Depth 3729  
Centralizers: Quantity 5 Plugs Top REPER Btm. \_\_\_\_\_  
Stage Collars \_\_\_\_\_  
Special Equip. 2 STOP RINGS  
Disp. Fluid Type 2% MCL Amt. 59 Bbls. Weight 8.42 PPG  
Mud Type CHEMICAL Weight 9.5 PPG

COMPANY REPRESENTATIVE: GARY MAYFIELD CEMENTER: LEVIN BRUNARDT

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per. Time Period	RATE Bbls Min.	
11:30						ON LOCATION, RTG UP
						JOB SAFETY PROCEDURE
						RTG 4 1/2" CASING, RECTAROCATE
						CASING 30' EVERY 10 MINUTES
						RTG UP TO ROTATE CASING WHILE CIRCULATING
4:40	400				4	RTG UP TO CEMENT PUMP
	300		12	12	8	START MUD SWEEP/SAND
	800		17	5	9	MUD SWEEP IN - START 40.60.2/SAND
			59	42		SAND IN - INCREASE RATE
						CEMENT IN - STOP PUMPS
						CHANGE VALVES - FLUSH PUMPS + LINES
						CHANGE VALVES - RELEASE PLUG
	100				2	START DISPLACEMENT
	100		61	2	6	INCREASE RATE
	50		62	1	6	MUD SWEEP @ SHOULDER
	50		69	7	4	CEMENT @ SHOULDER - STOP ROTATING @ SLOW RATE
5:15	600		107	33		GRADUAL PSI INCREASE
	1100		119			BCMP PLUG & HOLD PRESSURE
						RELEASE PSE + FLOAT MECH!

DEC 06 1991



P.O. Box 4442  
Houston, Texas 77210

# CEMENTING LOG ORIGINAL STAGE NO.

Date 9-25-90 District Med Lodge Ticket No. 610993  
Company William H Davis Rig \_\_\_\_\_  
Lease Hilliard Well No. #1  
County Harper State Kans  
Location Donville Field \_\_\_\_\_  
2 E 35 1 E 1 S

CASING DATA: PTA  Squeeze   
Surface  Intermediate  Production  Liner   
Size 9 5/8 Type \_\_\_\_\_ Weight 24 Collar \_\_\_\_\_

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_

Drill Pipe: Size 4 1/2 Weight \_\_\_\_\_ Collars \_\_\_\_\_

Open Hole: Size 12 1/4 T.D. 276 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl. 15.7

Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA:

Spacer Type: \_\_\_\_\_  
Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type 40/60  
3% AT-P - 2% 901 Excess \_\_\_\_\_

Amt. 200 Sks Yield 1.24 ft<sup>3</sup>/sk Density 14.8 PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 6481  
Bulk Equip. K-W

Float Equip: Manufacturer BAKER Weatherford

Shoe: Type Rog Depth 273

Float: Type Baffle plate Depth 234

Centralizers: Quantity 2 Plugs Top  Btm. \_\_\_\_\_

Stage Collars \_\_\_\_\_

Special Equip. \_\_\_\_\_

Disp. Fluid Type Fresh H<sub>2</sub>O Amt. 1436 Bbls. Weight \_\_\_\_\_ PPG

Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE: Gary Pugh

CEMENTER: Dean Sateran

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per. Time Period	RATE Bbls Min.	
7:15						Arrive on Loc - hold safety at - Rig up
10:31	100					Start cement
10:38	100			44		Cement mixed - tank plug loose
10:39	50					Start displacement
10:44	50		59	15		Plug lands on baffle plate
10:45	300					Stop

STATE OF KANSAS  
COMMISSION  
DEC 06 1991  
NORTHWEST DIVISION