

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

Operator: License # 5144  
Name Mull Drilling Company, Inc.  
Address P.O. Box 2758  
City/State/Zip Wichita, KS 67201

Purchaser KOCH OIL COMPANY  
KANSAS

Operator Contact Person Paul Gunzelman  
Phone (316) 264-6366

Contractor: License # Blue Goose Drlg.  
Name Gr. Bend, KS

Wellsite Geologist Michael Kidwell  
Phone and Roger Martin

Designate Type of Completion  
New Well Re-Entry Workover  
X Oil SWD Temp Abd  
Gas Inj Delayed Comp.  
Dry Other (Core, Water Supply etc.)

If ONWO: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
X Mud Rotary Air Rotary Cable

2/10/80 2-22-80 P&A 8/17/87  
Spud Date Date Reached TD Completion Date

4595  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 331' feet  
Multiple Stage Cementing Collar Used? Yes X No  
If yes, show depth set feet  
If alternate 2 completion, cement circulated from feet depth to w/SX cmt  
Cement Company Name  
Invoice #

API NO. 15-101-20,430-0000

County Lane

SW SE NE Sec 8 Twp 17S Rge 28 XX East West

2970 Ft North from Southeast Corner of Section  
990 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

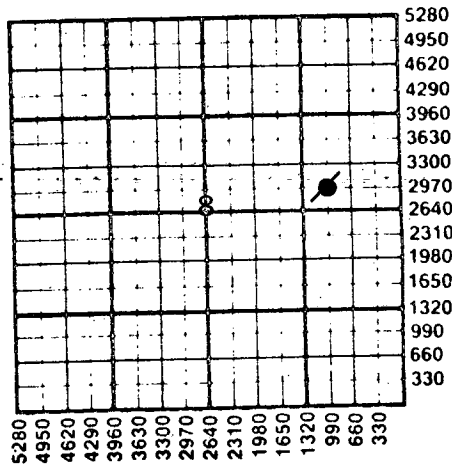
Lease Name TERWILLIGER Well # 2

Field Name Terwilliger Extension/Shields?

Producing Formation Lansing

Elevation: Ground 2768 KB 2777

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: X Disposal  
Docket # Hauled  
Repressuring

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner of Sec Twp Rge East West

Surface Water Ft North from Southeast Corner (Stream, pond etc) Ft West from Southeast Corner Sec Twp Rge East West

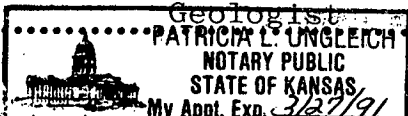
Other (explain) (purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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 Paul M. Gunzelman  
Paul M. Gunzelman

Title Geologist Date Oct. 7, 1987



Subscribed and sworn to before me this 7th day of October, 1987.

Notary Public Patricia L. Ungleich

Date Commission Expires March 27, 1991

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 RECEIVED Other  
STATE CORPORATION COMMISSION (Specify)  
OCT 15 1987  
10-15-87

Sec 8 Twp 17 Rge 28

SIDE TWO

Operator Name ..... MULL DRILLING COMPANY, INC. Lease Name..... TERWILLIGER ..... Well #..... 2.....

Sec..... 8..... Twp..... 17S..... Rge. 28W.....  East  West County..... Lane.....

WELL LOG

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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

Name Top Bottom

SEE ATTACHED CO-10 and CO-1

SEE ATTACHED CO-10 and CO-1

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
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
.....	.....			.....		.....	
.....	.....			.....		.....	
.....	.....			.....		.....	
.....	.....			.....		.....	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Size	Set At	Packer at					
.....	.....	.....					
Date of First Production		Producing Method					
.....		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
	Bbls	MCF					

METHOD OF COMPLETION

Disposition of gas:  Vented  Sold  Used on Lease  
 Open Hole  Perforation  Other (Specify) P&A.....  
 Dually Completed  Commingled

Bbls CFPB  
 Production Interval

P&A 8/17/87



AFFIDAVIT TO ESTABLISH TEMPORARY PRODUCTIVITY

This form must be filed in duplicate within five days after completion of the well:

Two copies to State Corporation Commission, Conservation Division  
245 North Water, Wichita, Kansas 67202

OPERATOR MULL DRILLING CO. LOCATION OF WELL:

LEASE TERWILLIGER 990 Ft. from East line.

WELL NUMBER 2 2970 Ft. from South line.

PURCHASER HUSKY OIL OF THE NE/4 OF SEC. 8 TWP. 17S RGE. 28W

COUNTY LANE

FIELD Terwilliger Extension PRODUCING FORMATION LANSING

Total Depth 4591' Top Prod. Form. 3969

Acid; Date 5/17/80 4/23/80 4/24/80 Prod. Perfs. 4537-42 4190-92 4185-87  
4/29/80 4/30/80

Amount 250 gal MCA 1500 gal Gal. Prod. Perfs. 4177-80 4146-50  
250 gal 15% MCA 200 gal 15% NE  
250 gal MCA 15% and 15% NE

PRODUCTION TEST

1000 gal 15% NE Date June 6, 1980 How Produced Pumped

Oil Produced 23 B0 Bbl. Length of Test 24 Hours,  
+ 10% Wtr

A F F I D A V I T

STATE OF KANSAS )  
 ) SS  
COUNTY OF SEDGWICK )

Robert O. Wall of lawful age, being first duly sworn upon his oath, deposes and says:

That he is President for MULL DRILLING COMPANY, INC.  
Operator of the Terwilliger Lease, and is duly authorized to make this affidavit for and on behalf of said operator, that Well No. 2 on said lease has been completed and was capable of producing twenty-five barrels of oil per day as of the 6th day of June, 19 80, and that all information entered herein with respect to said well is true and correct.

Further affiant saith not.

(S) Robert O. Wall

Subscribed and sworn to before me this 9th day of June, 19 80

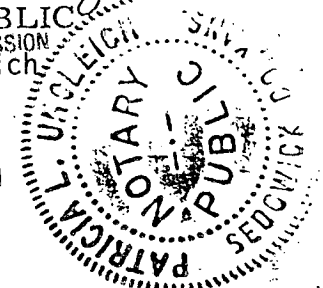
Patricia L. Ungleich

NOTARY PUBLIC  
STATE CORPORATION COMMISSION  
Patricia L. Ungleich

OCT 15 1987

My Commission expires March 27, 1983

CONSERVATION DIVISION  
Wichita, Kansas



**IMPORTANT**  
 Kans. Geo. Survey request  
 samples on this well.

**KANSAS DRILLERS LOG**

S. 8 T. 17 R. 28 <sup>X</sup>/<sub>W</sub>

API No. 15 — 101 — 20,430  
 County Number

Loc. SW SE NE

County LANE

Operator  
 Mull Drilling Co. Inc.

Address  
 Main 221, Suite 300, Wichita, KS 67202

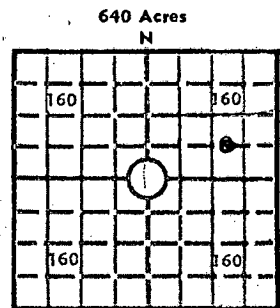
Well No. 2 Lease Name Terwilliger

Footage Location  
 330' feet from (X) (S) line 990' feet from (E) (X) line

Principal Contractor Blue Goose Drllg Co., Inc. Geologist Mike Kidwell

Spud Date 2/10/80 Total Depth 4591' P.B.T.D. 4600'

Date Completed 2/22/80 Oil Purchaser



Elev.: Gr. 2768

DF KB 2777

**CASING RECORD**

Report of all strings set— surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 1/2	8-5/8	20#	331'	Cmmn	200 sx	3% cc-2% gel
Production	7-7/8	4 1/2"	10 1/2#	4595'	Poz 150 sx Cmmn 25 sx	175 sx	18% salt 3/4 of 1% CFR2

**LINER RECORD**

**PERFORATION RECORD**

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4		4537-42
			4		4190-92 4185-8
					4177-80 4146-50

**ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD**

Amount and kind of material used	Depth interval treated
250 gal MCA (4/17/80) also 1500 gals 15% NE	4537-4542'
250 gal 15% MCA(4/23/80)	4270'
200 gal 15% NE (4/24/80) 250 gal(4/29) MCA 15%	4167'
1000 gal 15% NE (4/30)	

**INITIAL PRODUCTION**

Date of first production June 6, 1980	Producing method (flowing, pumping, gas lift, etc.) Pumping
RATE OF PRODUCTION PER 24 HOURS	Oil 23 bbls. Gas MCF 10% Water bbls. Gas-oil ratio CFPB
Disposition of gas (vented, used on lease or sold) vented	Producing interval (s) Lansing

**INSTRUCTIONS:** As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

C-10-1972

RECEIVED  
 STATE CORPORATION COMMISSION

OCT 15 1987

CONSERVATION DIVISION  
 Wichita, Kansas

Operator  
MULL DRILLING COMPANY, INC.

DESIGNATE TYPE OF COMP.: OIL, GAS,  
DRY HOLE, SWDW, ETC.:  
OIL

Well No.  
2

Lease Name  
TERWILLIGER

S 8 T17S R 28W

**WELL LOG**

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN,  
OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Anhydrite	2156			
Heebner	3933			
Toronto	3951			
Lansing	3969			
Stark Sh	4231			
B/KC	4308			
Ft Scott	4477			
Cherokee	4501			
Mississippian	4567			
Miss. Dolomite	4585			
Log TD	4591			
RTD	4595			
<p>DST #1 4144-4214 / 30-45-60-60            Fair blow (4") 1st flow            Good blow (7") 2nd flow            Recovered 183 feet of gas                      8 feet of oil cut mud (22% oil/78% md)                      60 feet of oil cut mud (23% oil/77% md)                      60 feet of oil cut mud (25% oil/75% md)            Total Fl: 128 feet            IHP 2098 ISIP 1082 IFP 76-87 FFP 109-131            FSIP 1040 FHP 2077            DST #2 (Marm 'C') 4363-4405' / 30-30-30-30            Very weak blow/died            Flushed tool (2nd open) No help            Rec'd 2 feet of mud            IHP 2182 ISIP 43 IFP 43-43 FFP 54-54 FSIP 54            FHP 2182            DST #3 4484-4532 / 30-45-60-60            Fair blow throughout. Rec 181' gas - 9' oil cut mud            1' free oil IHP 2177 ISIP 204 IFP 68-90 FFP 90-90            FSIP 477 FHP 2177            DST #4 4526-4560 / 30-45-30-30            Very weak blow 30 min/died            Flushed tool - no help            Recovered 61 feet of very slightly oil cut mud            IHP 2336 ISIP 1135 FFP 34-34 FSIP 1135 FHP 2336</p>				

ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received 2-22

FFP 34-34 FSIP 1135 FHP 2336

*Robert O. Wall*  
 Robert O. Wall  
 Signature

President  
 Title

*June 6, 1980*  
 Date

RECEIVED  
 STATE CORPORATION COMMISSION

OCT 15 1987

CONSERVATION DIVISION  
 Wichita, Kansas