

# ORIGINAL

SIDE ONE

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

API NO. 15- 179-20,975 -00-00  
County Sheridan

S/2 50 SW NE Sec. 30 Twp. 8 Rge. 26 East West  
2970 Ft. North from Southeast Corner of Section

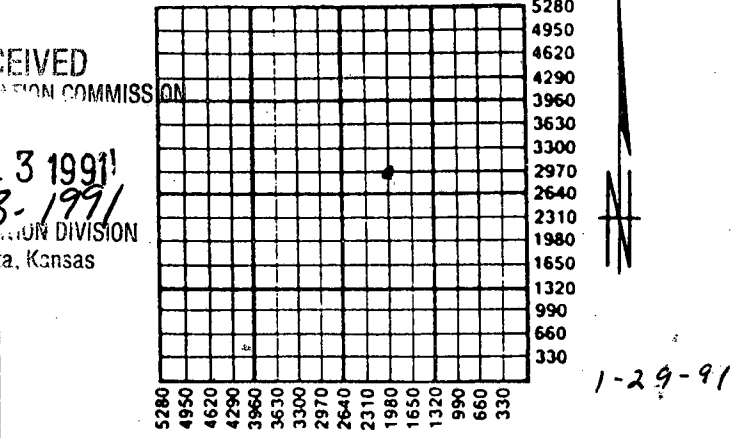
1980 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

Lease Name Ziegler Well # 4 Twin  
Field Name Overlook

Producing Formation \_\_\_\_\_

Elevation: Ground 2577 KB \_\_\_\_\_

Total Depth 1960 PBDT 1956



Amount of Surface Pipe Set and Cemented at 226 Feet

Multiple Stage Cementing Collar Used? Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 1960  
feet depth to surface w/ 228 350 sx cmt.

Operator: License # 5145

Name: Dreiling Oil, Inc.

Address Box 1000

City/State/Zip Victoria, KS 67671

Purchaser: \_\_\_\_\_

Operator Contact Person: Ivan Edsall

Phone ( 913 ) 735-2204

Contractor: Name: Eagle Well Service

License: 4332

Wellsite Geologist: \_\_\_\_\_

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:  Mud Rotary  Air Rotary  Cable

11-12-90 11-24-90 12-19-90

Spud Date Date Reached TD Completion Date

RECEIVED  
STATE CORPORATION COMMISSION  
NOV 13 1991  
11-13-1991  
Wichita, Kansas

**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 Ivan R. Edsall

Title Production Superintendent Date 11-8-91

Subscribed and sworn to before me this 8th day of November, 19 91.

Notary Public Patty Dreiling

Date Commission Expires 8-30-94

**K.C.C. OFFICE USE ONLY**  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
  
Distribution  
 KCC  SWD/Rep  NPGA  
 KGS  Plug  Other (Specify)



pl

ORIGINAL

SIDE TWO

Operator Name Dreiling Oil, Inc.

Lease Name Ziegler Well # 4 Twin

Sec. 30 Twp. 8 Rge. 26

East

County Sheridan

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  Yes  No  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy.)

Formation Description

Log  Sample

Name	Top	Bottom
Cedar Hills Sand	1800	1946

**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	20	226	60/40 poz	140	2% gel 2% CC
Production	7 7/8	5 1/2	14	1958	65/35 poz	228	6% gell

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
		Amount	Depth
1	1800 - 1840		1800
1	1852 - 1872	1500 gal. A-720 Acid	to
1	1885 - 1945		1945

**TUBING RECORD**

Size 2 3/8" PVC lined Set At 1782 Packer At 1782 Liner Run  Yes  No

Date of First Production 2-9-91 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) SWD

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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 1800-1946

FIRST NATIONAL BANK & TRUST  
 DREILING OIL, INC.  
 FOR DEPOSIT ONLY



PO. Box 4442  
Houston, Texas 77210

15-179-20975-00-00  
**ORIGINAL CEMENTING LOG**

STAGE NO.

Date 11-24-90 District Ogaley, Ks Ticket No. 610067  
Company Drilling Oil Co. Rig Eagle Well Serv. Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
Lease 31gler Well No. A-4 Twin  
County Sharon State Ks  
Location Hopin St. Redline Rd Field \_\_\_\_\_  
10E-43N-3W

CASING DATA: PTA  Squeeze   
Surface  Intermediate  Production  Liner   
Size 5 1/2" Type J-55 Weight 14 # Collar S 8rd

Casing Depths: Top surface Bottom 1958'

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
Open Hole: Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:

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

10 bbl H<sub>2</sub>O  
LEAD: Pump Time \_\_\_\_\_ hrs. Type 65/35 Pao  
6% gel Excess \_\_\_\_\_

Amt. 350 Sks Yield 1.84 ft<sup>3</sup>/sk Density 12.7 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 BSU-6463  
Bulk Equip. BJ-272 BSU-6458

Float Equip: Manufacturer \_\_\_\_\_

Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_

Float: Type \_\_\_\_\_ Depth \_\_\_\_\_

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

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

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

Disp. Fluid Type H<sub>2</sub>O Amt. 48' Bbls. Weight 8.34 PPG

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

COMPANY REPRESENTATIVE Errett Mickelson

CEMENTER Larry J.

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls. Min.	
3:00						on loc & set up tub hold pre-job safety meeting hook up to circulate pump 10 bbl H <sub>2</sub> O mix cement wash out pump & lines displace plug down  Cement did circulate approx 15 bbl to the pit Cement = 115 bbl slurry  RECEIVED STATE CORPORATION COMMISSION 11-13-1991 NOV 13 1991 CONSERVATION DIVISION Wichita, Kansas  Thank you Larry & crew
5:00						
5:45						
6:05						
6:08						
6:33						
6:35						
6:45						

FINAL DISP. PRESS: 700 PSI BUMP PLUG TO 900 PSI BLEEDBACK \_\_\_\_\_ BBLs. THANK YOU

Form No. SR 0502 (Rev. 3/90)  
Note: Must accompany job ticket.







P.O. Box 4442  
Houston, Tx. 77210

CUSTOMER COPY  
**ORIGINAL**

15-179-20975-00-00  
**SERVICE OPERATIONS CONTRACT**  
TERMS NET 30 DAYS FROM DATE OF CONTRACT

REMIT TO: P.O. Box 100806, Houston, Tx. 77212

CUSTOMER ACCOUNT NO.		DIST. NAME <i>Oakley, Ks</i>		DATE <i>11-24-90</i>	SERVICE CONTRACT NO. <b>610067</b>	
CUSTOMER <i>Drilling Oil Co.</i>		DIST. NUMBER <i>585</i>		NEW WELL <input checked="" type="checkbox"/> WELL TYPE	JOB NUMBER	
ADDRESS		COUNTY PARISH <i>Sheridan</i>		WELL NO. <i>A-4</i>	LEASE NAME & FEDERAL OFFSHORE LEASE NO. <i>Zeigler Luin</i>	
CITY		STATE <i>Ks</i>		CODE	CITY CODE	
AUTHORIZED BY: (Please Print)		ORDER NO.		WELL OWNER <i>Drilling Oil Co.</i>	MTA CODE	
STAGE NO.	JOB CODE	WORKING DEPTH <i>1958</i>	FT.	PUMPING EQUIPMENT	TIME (A OR P)	DATE
TOTAL PREV. GALS.	1 SURFACE <input type="checkbox"/> 2 INTERMEDIATE <input type="checkbox"/> 3 PRODUCTION <input checked="" type="checkbox"/> 4 REMEDIAL <input type="checkbox"/>	DEPTH <i>1960</i>	FT.	TRUCK CALLED	<i>12:30 P</i>	<i>11/24/90</i>
TOTAL MEAS. DEPTH	SIZE HOLE <i>7 7/8</i>	DEPTH <i>1958</i>	FT.	ARRIVED AT JOB	<i>3:00 P</i>	<i>11/24/90</i>
FT.	SIZE & WT. CASING <i>5 3/8"</i>	DEPTH	FT.	START OPERATION	<i>6:00 P</i>	<i>11/24/90</i>
AVG. PSI.	SIZE & WT. DRILL PIPE OR TUBING	DEPTH	FT.	FINISH OPERATION	<i>6:45 P</i>	<i>11/24/90</i>
MAX. PSI.	PACKER DEPTH	FLUID PUMPED		TIME RELEASED	<i>7:30 P</i>	<i>11-24-90</i>
MAX. BPM				MILES FROM STATION TO WELL <i>52</i>	SALESMAN NUMBER	
S/S EMPLOYEE NUMBER <i>12-58-0438</i>	CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED CEMENT					

**RECEIVED**  
STATE CORPORATION COMMISSION  
*11-13-1991*  
**NOV 13 1991**  
Wichita, Kansas

REMARKS:

**CONTRACT CONDITIONS:** (This contract must be signed before the job is commenced or merchandise is delivered)

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of BJ SERVICES.

PRICE BOOK *011* SIGNED *Ernette M. Nelson*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
1011003111	1	Pumping charge	945.00	ea	945.00
1011090105	52	Pump trk mileage Oakley	2.35	mi.	122.20
104110504	228	Class A Cement	6.30	sh	1436.40
1041150118	122	Pos Mix	3.62	sh	441.64
104120145	1800	Hel	.13	ea.	234.00
10430520	1	5 3/8" rubber plug	55.00	ea	55.00
109410101	835	Hauling 15.10 X 52	.75	TM	627.75
108180001	350	Handling & dumping	1.10	sh	385.00
		Sub-Total			4246.99
		- 10% discount			424.70

SERVICE REPRESENTATIVE *Danny J.* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Ernette M. Nelson*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.

15-179-20975-00-00

ORIGINAL

DOCKET # D 26173

CASING MECHANICAL INTEGRITY TEST

Disposal  Enhanced Recovery:

5/2 SW NE, Sec 30, T 8 S, R 26 E/W

Repressuring

2970 Feet from South Section Line

Flood

1980 Feet from East Section Line

Tertiary

Date injection started \_\_\_\_\_

Lease ZIEGLER Well # 4 TWIN

API #15 - - -

County SHERIDAN

Operator: DREILING OIL INC. Operator License # 5145

Name & Address Box 1000

Contact Person IUAN EDSALL

VICTORIA, KANSAS

Phone \_\_\_\_\_

Max. Auth. Injection Press. \_\_\_\_\_ psi; Max. Inj. Rate \_\_\_\_\_ bbl/d;

If Dual Completion - Injection above production \_\_\_\_\_ Injection below production \_\_\_\_\_

Conductor	Surface	Production	Liner	Size	Tubing
_____	<u>8 3/8</u>	<u>5 1/2</u>	_____	<u>2 3/8</u>	_____
Set at _____	<u>2 1/8</u>	<u>1958</u>	_____	Set at <u>1782</u>	_____
Cement Top _____	<u>CWC</u>	<u>CWC</u>	_____	Type <u>PLASTIC LINED</u>	_____
" Bottom _____	<u>226</u>	<u>1958</u>	_____	_____	_____

DV/Perf. CWC FROM 1958 TO 228 TD (and plug back) 1980 1956 ft. depth

Packer type TENSION Size 5 1/2 Set at 1782

Zone of injection 1800 ft. to ft. 1948 Perf. or open hole \_\_\_\_\_

Type Mit: Pressure  Radioactive Tracer Survey  Temperature Survey

Time: Start 0 Min. 15 Min. 30 Min.

Pressures: 310 310 310 Set up 1 System Pres. during test 0

Set up 2 Annular Pres. during test 310

Set up 3 Fluid loss during test 0 bbls.

Tested: Casing  or Casing - Tubing Annulus

The bottom of the tested zone is shut in with PACKER

Test Date 12-19-90 Using SERVICE ACID Company's Equipment \_\_\_\_\_

The operator hereby certifies that the zone between 0 feet and 1782 feet

was the zone tested Iuan R. Edsall Signature Title

The results were Satisfactory XX, Marginal \_\_\_\_\_, Not Satisfactory \_\_\_\_\_

State Agent Carl Goodnow Title PERT II Witness: Yes XX No \_\_\_\_\_

REMARKS: \_\_\_\_\_

Origin. Conservation Div.;  KDHE/T;  Dist. Office;

Computer Update

RECEIVED  
STATE CORPORATION COMMISSION  
11-13-1991  
NOV 13 1991  
KCC FORM U-7 6/84  
CONSERVATION DIVISION  
Wichita Kansas

15-179-20975-00-00

ORIGINAL



# Kansas Corporation Commission

Joan Finney  
Governor

Keith R. Henley  
Chairman

Rich Kowalewski  
Commissioner

Jack Shriver  
Commissioner

Judith McConnell  
Executive Director

## TEMPORARY INJECTION AUTHORIZATION

TO: Dreiling Oil, Inc.  
Box 1000  
Victoria, KS 67671

RE: Application for Injection Authority  
Docket #D-26,173  
Zeigler #4 Twin  
NE/4 Sec.30-T8S-R26W  
Sheridan County

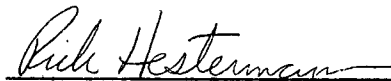
Dear Sirs:

Staff has completed the initial reviews of the above-referenced injection application. The MIT requirement has been successfully completed. Notice has been examined and found proper, and the fifteen day protest period has elapsed. Based on this information, you are hereby given temporary administrative approval to start injecting fluids into this well. Volumes are not to exceed 1500 barrels per day, nor pressure to exceed 0 psig.

If during subsequent reviews any technical or legal problems arise, you will be expected to immediately cease use of this well if so requested by this office or our district staff. Your official order authorizing injection will follow upon completion of all necessary processing.

Thank you for your cooperation and patience in working with us on this application.

Sincerely,

  
Rick Hestermann, Director  
Underground Injection Control

February 9, 1991  
Date of Approval

cc: District Office #4  
Well File

Conservation Division  
Shari Feist Albrecht  
Director  
200 Colorado Derby Bldg.  
202 W. 1st Street  
Wichita, Kansas 67202-1286  
Telephone (316) 263-3238

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STATE CORPORATION COMMISSION  
11-13-1991  
NOV 13 1991

CONSERVATION DIVISION  
Wichita, Kansas