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CONFIDENTIAL

OCT 09 1991

FROM CONFIDENTIAL

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- 151-22,003

County Pratt

NE SW NW Sec. 2 Twp. 27 Rge. 12  East West

3630 Ft. North from Southeast Corner of Section

4290 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

Lease Name E. B. Studer Well # 3

Field Name Stead So.

Producing Formation Mississippian Chert

Elevation: Ground 1868 KB 1876

Total Depth 4300' PBD

Operator: License # 9232

Name: Timberline Oil & Gas Corp.

Address 4447 South Canyon Road  
Suite 1

City/State/Zip Rapid City, SD 57702

Purchaser: Texasco Trading and Transportation, Inc.

Operator Contact Person: Brant C. Grote

Phone (605) 341-3400

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Roy Knapp, Jr.

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: \_\_\_\_\_

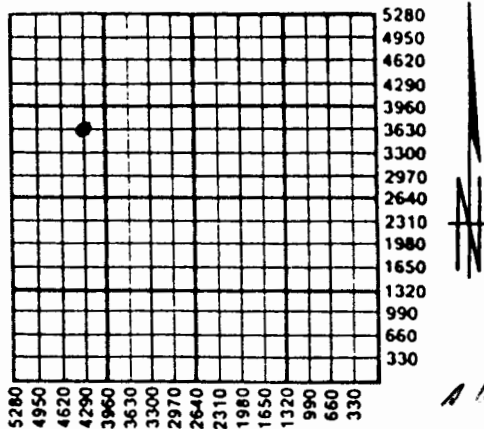
Well Name: \_\_\_\_\_

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

Drilling Method:

- Mud Rotary  Air Rotary  Cable

09-90 08-15-90 8-24-90  
Date Date Reached TD Completion Date



Amount of Surface Pipe Set and Cemented at 254 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 surface 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 Brant C. Grote  
Title President Date 9/12/90

Subscribed and sworn to before me this 12 day of September, 19 90.

Notary Public [Signature]

Date Commission Expires 3/30/96

**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) IS

**SIDE TWO**

Operator Name Timberline Oil & Gas Corp. Lease Name E.B. Studer Well # 3  
 County Pratt  
 Sec. 2 Twp. 27 Rge. 12  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  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 Dual Porosity Log  
 Dual Induction Log

**Formation Description**

Log  Sample

Name	Top	Bottom
Mississippian chert	4142'	4191'

**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#	254'	60/40 poz	170	2% gel 3% cc
Production	7-7/8"	4 1/2"	9.5#	4299'	60/40 poz	75	20 bbls. Mud Sweep
					ASC	50	

Spuds Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4142-82'	1000g 15% HCl, frac w/ 135,000 # sand, 1885 BBI x-Link KCl	4142-82

Size 2 3/8 Set At 4126' Packer At \_\_\_\_\_  
 Liner Run  Yes  No

Date of First Production 8-30-90 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40	40	35	1000	42°

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 4142-82'