

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 # 08060  
Name Zinke & Tumba, Ltd  
Address Box 1816  
City/State/Zip Liberal, KS 67905-1816

Purchaser Enron Gas Marketing  
Omaha, NE

Operator Contact Person Keith Hill  
Phone (316) 624-0156

Contractor: License # 05380  
Name Eagle Drilling

Wellsite Geologist  
Phone

Designate Type of Completion

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

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

Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

7-30-87 8-10-87 10-7-87  
Spud Date Date Reached TD Completion Date  
6490 6440  
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 580 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set feet  
If alternate 2 completion, cement circulated from 580 feet depth to surface, 300 SX cmt  
Cement Company Name BJ Titan  
Invoice # turkey

API No. 15-119-20,763-00-00  
County Meade  
N/2 SE SE Sec. 16 Twp 35S Rge 26 East West

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

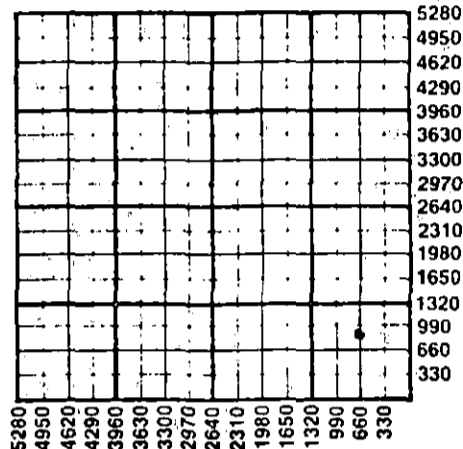
Lease Name Mathews Well # 1-16

Field Name McKinney Crooked Creek

Producing Formation Morrow & Chester

Elevation: Ground 2125.5 KB 2138.5

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal  
Docket # 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 990 Ft North from Southeast Corner (Stream, pond etc) 330 Ft West from Southeast Corner Sec 16 Twp 35S Rge 26 East West  
Other (explain) (purchased from city, R.W.D. #)

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. 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 James Schartz  
Title Agent Date 10-20-87

Subscribed and sworn to before me this 20th day of October 1987.  
Notary Public Charles A. Vecchiarelli  
Date Commission Expires

CHARLES A. VECCHIARELLI  
NOTARY PUBLIC  
STATE OF KANSAS  
MY APPT. EXPIRES 4-28-90

K.C.C. OFFICE USE ONLY  
 Letter of Confidentiality Attached  
 Wireline Log Received  
 Drillers Timelog Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)  
RECEIVED  
OCT 29 1987

CONSERVATION DIVISION  
Wichita, Kansas  
10-29-1987

Sec 16 Twp 35S Rge 26E

Operator Name ..... Zinke & Trumbo, Ltd. .... Lease Name..... Mathews ..... Well #... 1-16.

Sec.... 16.... Twp. 35S..... Rge. 26.....  East  West County..... Meade.....

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
Hutchinson Salt	1800'	2902'
Council Grove	2902'	4596'
Lansing	4596'	5336'
Marmaton	5336'	5899'
Morrow Shale	5899'	5994'
Chester	5994'	6490' TD

RELEASED

DEC 12 1988

FROM CONFIDENTIAL

CASING RECORD <input checked="" 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
Conductor	30"	20"		128'	8 sk grout	13 1/2 yds	
Surface	12 1/2"	8-5/8"	24#	580'	Lite	200	3%CC, 4#Floccle
Production	7-7/8"	5 1/2"	14.5 & 15	6484'	Class A	100	3%CC, 2%gel
					Class H	200	18%Salt, 5#Callseal
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
	See attached sheet			See attached sheet			
	See attached sheet			See attached sheet			
	See attached sheet			See attached sheet			
TUBING RECORD				Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
	Size	Set At	Packer at				
	2-7/8"	5990'	5990'				
Date of First Production	Producing Method						
10-26-87	<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	Gas	Water	Gas-Oil Ratio	Gravity		
	1	450	trace	450	65°		
	1 1/2 Bbls	1000 MCF	8 Bbls	666.67	MCFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Sold  Used on Lease  
 Open Hole  Perforation  Other (Specify) .....  
 Dually Completed  Conmingled

5967-5970'.....  
 6004-6008'.....  
 6055-6094'  
 6410-6418'

Zinke & Trumbo, Ltd.  
MATHEWS #1-16  
Sec. 16-35S-26W  
Meade Co., KS

Attachment to ACO-1

Perforation Record	Frac, Acid, Shot	Depth
5967-70' - 2 SPF	Acidize w/ 1000 gals 7½% Spearhead, 1000 scf/bbl N <sub>2</sub> Frac w/ 1000 gals Apollo-40 gel, 15000# 20/40 sand	Same
6004-08' - 1 SPF	Acidize w/ 1000 gals MRS-100 Frac w/ 15000 gals DGA-215 acid w/ 19500 gals WF-140	Same
6055-94' - 1 SPF	Acidize w/ 2500 gals 15% MRS-100	Same
6410-18' - 2 SPF	Acidize w/ 1000 gals 7½% acid	Same

Perforation Record	Cement Squeeze	Depth
6450' - 4 holes	50 sx Class H cement w/ .4% D-60	Same
6200' - 4 holes	25 sx Scavenger cement w/ 100 sx Class H, .4% D-60	Same
6438-39' - 4 SPF	50 sx Thix-Tropic w/ 25 sx Class H	Same

RELEASED

DEC 12 1968

FROM CONFIDENTIAL

KANSAS GEOLOGICAL SURVEY  
WINNIE BRANCH