

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 # 5293  
Name Helmerich & Payne, Inc.  
Address P.O. Box 558  
City/State/Zip Garden City, KS 67846

Purchaser Mobil

Operator Contact Person Millard Lindsay  
Phone 316-276-3693

Contractor: License # 9087  
Name R & C Drilling Co., Inc.

Wellsite Geologist Alan Downing  
Phone 913-625-2993

Designate Type of Completion

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

If OWWO: old well info as follows:

Operator .....  
Well Name .....  
Comp. Date ..... Old Total Depth.....

WELL HISTORY

Drilling Method:

- Mud Rotary     Air Rotary     Cable

1-22-86    1-30-86    2-28-86  
Spud Date    Date Reached TD    Completion Date  
State Test  
3480'    3467'    3-24-86  
Total Depth    PBD

Amount of Surface Pipe Set and Cemented at 266' feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 1146 feet  
If alternate 2 completion, cement circulated  
from 1146 feet depth to Surf w/ 300 SX cmt  
by B.J. Titan Services # 279374

API NO. 15-.....-051-24,387.....

County Ellis

SW SE SE Sec. 4 Twp. 11 Rge. 17  East  West

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

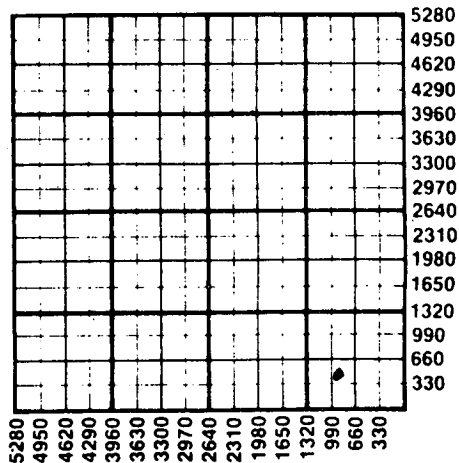
Lease Name Roy Carmichael Well # 10

Field Name U. Turkville NW

Producing Formation Conglomerate

Elevation: Ground 1828' KB 1833'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  Repressuring  
Docket # .....

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. #)

Hauled by private contractor from Saline River

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 Millard Lindsay  
Title Dist. Production Manager Date 3-27-86

Subscribed and sworn to before me this 27th day of March  
1986  
Notary Public Betty J. Purdy  
Date Commission Expires 6 Aug 86

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) X

STATE CORPORATION COMMISSION

Form ACO-1 (7-84)

MAR 28 1986  
3-28-1986  
CONSERVATION DIVISION

Sec. 4 Twp. 11 Rge. 17 W

SIDE TWO

Operator Name Helmerich & Payne, Inc. Lease Name Roy Carmichael Well # 10

Sec. 4 Twp. 11 Rge. 17  East  West County Ellis

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

0' to 189' Sand & Shale & Post Rock  
 189' to 1067' Sand & Shale  
 1067' to 1100' Anhydrite  
 1100' to 1660' Sand & Shale  
 1660' to 2435' Shale  
 2435' to 3330' Lime & Shale  
 3330' to 3352' Shale & Conglomerate  
 3352' to 3369' Conglomerate  
 3369' to 3399' Lime & Shale  
 3399' to 3440' Arbuckle  
 3440' to 3480' Shale & Lime R.T.D.

Name	Top	Bottom
Topeka	2779	
Heebner	3009	
Toronto	3032	
LKC	3052	
BKC	3287	
Conglomerate	3308	
Arbuckle	3406	

Zones of Interest

LKC "F"	3130 - 3134	14% $\phi$ N	38%SW
Conglom.	3332 - 3340	22% $\phi$ N	32%SW
Conglom.	3344 - 3355	15% $\phi$ N	30%SW
Conglom.	3358 - 3366	12% $\phi$ N	31%SW

Core #1 - 3330 - 3351 Recovered 14', Lost 7' Shale, Sandstone & chert  
 Core #2 - 3351 - 3358 Recovered 7' chert w/ interbedded ss.  
 Core #3 - 3358 - 3369 Recovered 11' shale & chert

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
Surface	12 1/4	8 5/8	24	266'	Class A	150	3%CC, 2%gel
Prod. 1 Stage	7 7/8	5 1/2	14	3480'	Class A	150	Surfill
Prod. 2 Stage	7 7/8	5 1/2	14	1146'	Lt. weight	300	
(Cement did circulate on 2nd stage - Circ. 50 sks)							
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			Amount and Kind of Material Used		Depth	
1	3333 - 3340			2000 gal 7 1/2% HCL			
1	3344 - 3354			Frac. w/30000 gal x-linked			
1	3358 - 3364			Purgel w/2000# 100 mesh sand			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing Method					
2-28-86		<input type="checkbox"/> Flowing <input checked="" 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	
52.3 Bbis			MCF	56.7 Bbis	CFPB	30.3	

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed  
 None  Conmingled

3333 - 3340  
 3344 - 3354  
 3358 - 3364