

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISIONWELL 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  
 .... 3480' ..... 3467' ..... State Test  
 Total Depth PBTD 3-24-86

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 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)

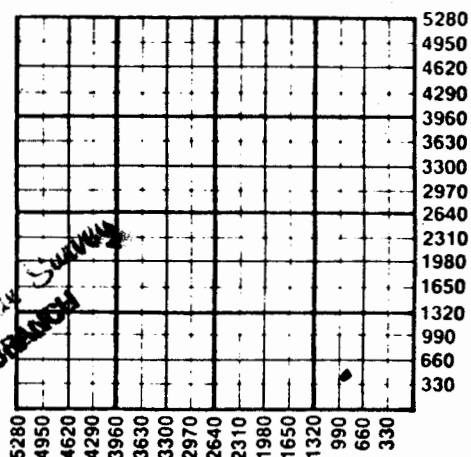
Lease Name... Roy Carmichael ..... Well #... 10 .....

Field Name... U. Turkville NW .....

Producing Formation... Conglomerate .....

Elevation: Ground... 1828' ..... KB... 1833' .....

## Section Plat



## WATER SUPPLY INFORMATION

Disposition of Produced Water: ☐ Disposal  
 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.....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.

## SIDE TWO

Operator Name Helmerich & Payne, Inc. Lease Name Roy Carmichael Well # 10Sec. 4 Twp. 11 Rng. 17 ☐ East ☒ West County Ellis

## METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented ☐ Open Hole ☒ Perforation  
☐ Sold ☐ Other (Specify) ..... 3333 - 3340  
☐ Used on Lease

3344 - 3354

None

☐ Dually Completed  
☐ Conmingled

3358 - 3364

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 ☐ NoFormation Description  
☒ Log ☐ Sample

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

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.

## 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

| Estimated Production Per 24 Hours | Oil       | Gas | Water     | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|-----|-----------|---------------|---------|
|                                   | 52.3 Bbls | MCF | 56.7 Bbls | CFPB          | 30.3    |

| Purpose of Casing                                  | Size Hole | Size Casing   | Weight  | Setting | Type of Cement | #Sacks Used | Percent Additives |
|----------------------------------------------------|-----------|---------------|---------|---------|----------------|-------------|-------------------|
|                                                    | Drilled   | Set (In O.D.) | Lbs/Ft. | Depth   |                |             |                   |
| 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% HCL                                                         |       |
| 1              | 3344 - 3354                                 | Frac. w/ 30000 gal x-linked                                             |       |
| 1              | 3358 - 3364                                 | Purgel. w/ 2000# 100 mesh sand<br>30000 #20-40 sand & 15000 #12-20 sand |       |

| TUBING RECORD | Size  | Set At | Packer at | Liner Run | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|---------------|-------|--------|-----------|-----------|---------------------------------------------------------------------|
|               | 2 3/8 | 3309   |           |           |                                                                     |

| 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)..... |