

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

Operator Contact Person Millard L. Lindsay Phone 316-276-3693

Contractor: license # 5665 name Pioneer Drlg Co.

Wellsite Geologist Alan Downing Hays, KS Phone 913-625-3550

PURCHASER Farmland Industries

Designate Type of Completion [X] New Well [] Re-Entry [] Workover

[X] 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: [X] Mud Rotary [] Air Rotary [] Cable 7-9-84 7-16-84 8-28-84 Spud Date Date Reached TD Completion Date

3478 3461 Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 261 feet

Multiple Stage Cementing Collar Used? [] Yes [X] No

If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated from 1303 feet depth to surface w/ 380 SX cmt.

API NO. 15 - 163 - 22400 - 00 - 00

County Rooks

NE SW SW Sec 11 Twp 9 Rge 17 East West

990 Ft North from Southeast Corner of Section 4290 Ft West from Southeast Corner of Section (Note: locate well in section plat below)

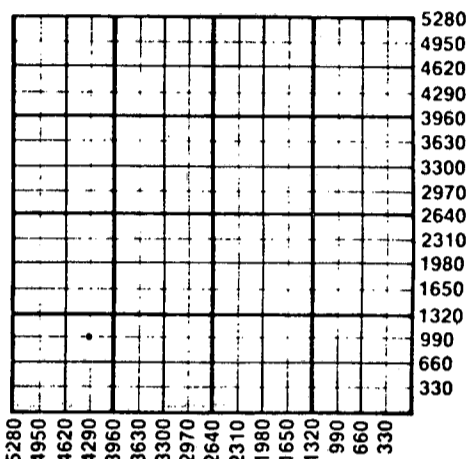
Lease Name Oswald Well# 5

Field Name W. Husing (West Husing)

Producing Formation Arbuckle

Elevation: Ground 2015 KB 2020

Section Plat



WATER SUPPLY INFORMATION

Source of Water:

Division of Water Resources Permit #

[] Groundwater Ft North From Southeast Corner and (Well) Ft West From Southeast Corner of Sec Twp Rge [] East [] West

[] Surface Water Ft North From Southeast Corner and (Stream, Pond etc.) Stream Ft West From Southeast Corner Sec 11 Twp 9 Rge 17 [] East [X] West

[] Other (explain) (purchased from city, R.W.D.#)

Disposition of Produced Water: [] Disposal [] Repressuring

Docket #

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. Rules 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 L. Lindsay Title District Production Manager Date 8-30-84

Subscribed and sworn to before me this 30th day of August 19 84

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 [X] KCC [] SWD/Rep [] NGPA [X] KGS [] Plug [] Other (Specify)

Sec. 11 Twp. 9 Rge. 17W

Operator Name Helmerich & Payne, Inc. Lease Name Oswald Well# 5 SEC. 11 TWP. 9S RGE. 17 East West

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

| Tops | Name | Top | Bottom |
|------------------------|----------|-------------|--------|
| Anhydrite 1284 to 1321 | LKC | 3312 | 3316 |
| Topeka 2891 | | 11-12% ØN | |
| Heebner 3109 | | 3246 | 3252 |
| Toronto 3130 | | 20% ØN | |
| LKC 3150 | | 23-35 ohm-m | |
| BKC 3393 | | 3190 | 3198 |
| Arb 3428 | | 8-15% ØN | |
| LTD 3476 | Arbuckle | 33-50 ohm-m | |
| RTD 3478 | | 3429 | 3437 |

DST #1 Conglomerate 3395 - 3420
 7-15-84 Cheney Testing
 20-30-60-60

IFP = 57 to 57 Weak steady 1" blow
 ISIP = 596
 FFP = 67 to 67 Weak surface blow
 FSIP = 596
 IHP = 1727
 FHP = 1679 Rec 25' Mud w/ oil specks

DST #2 Arbuckle 3427 - 3443 7-16-84 Cheney Testing
 15-30-30-60

IFP = 297 - 438 Strong blow
 ISIP = 962
 FFP = 531 - 720 Strong blow
 FSIP = 952
 IHP = 1770
 FHP = 1687 Rec 1690' 23.5 gravity oil
 60' mud cut oil

| CASING RECORD | | | | Acid, Fracture, Shot, Cement Squeeze Record | | | |
|-------------------|-------------------|---------------------------|----------------|---|----------------|--------------|----------------------------|
| 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 1/2 | 85/8 | 23# | 261 | Cl A | 150 | 2% gel 3% CaCl |
| Prod. Csg | 5 1/2 | 77/8 | 14# | 3477 | SelfStress | 100 | |
| | | | Top Stage | | 60-40 Poz | 330 | 4% gel |
| | | DV Tool @ | 1303 | | Cl A | 50 | 2% gel 3% CaCl |
| shots per foot | | | | Depth | | | |
| 2 | | | | 3429 - 3437 | | | |
| | | | | 80 gal 15% HCl | | | |
| | | | | 3429 - 37 | | | |

| TUBING RECORD | | Liner Run | |
|---------------|--------|-----------|---|
| size | set at | packer at | |
| 23/8 | 3439 | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

| Date of First Production | Producing method | | |
|--------------------------|----------------------------------|---|--|
| 8-2-84 | <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 |
|-----------------------------------|---------|-----|----------|---------------|---------|
| | 23 Bbls | MCF | 169 Bbls | CFPB | 25 |

Disposition of gas: vented sold used on lease None

METHOD OF COMPLETION: open hole perforation other (specify)

Dually Completed. Commingled

PRODUCTION INTERVAL: Arb 3429 - 3437

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

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ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

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name Helmerich & Payne, Inc.
address P. O. Box 558
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Phone 316-276-3693

Contractor: license # 5665
name Pioneer Drlg Co.

Wellsite Geologist Aln Downing Hays, KS
Phone 913-625-3550

PURCHASER... Farmland Industries

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
7-9-84 7-16-84 8-20-84
Spud Date Date Reached TD Completion Date
3478 3461
Total Depth PBD
Amount of Surface Pipe Set and Cemented at 261 feet
Multiple Stage Cementing Collar Used? Yes No
If Yes, Show Depth Set feet
If alternate 2 completion, cement circulated from 1303 feet depth to surface w/ 380 SX cmt

API NO. 15 - 163 - 22400 - 00 - 00

County Rooks

NE SW SW Sec 11 Twp 9 Rge 17
(location)

990 Ft North from Southeast Corner of Section
4290 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

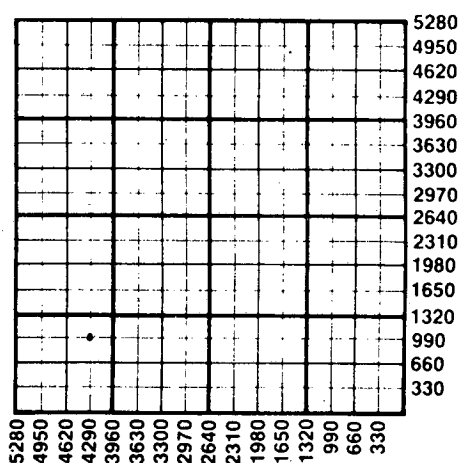
Lease Name Oswald Well# 5

Field Name W. Husing (WEST HUSING)

Producing Formation Arbuckle

Elevation: Ground 2015 KB 2020

Section Plat



WATER SUPPLY INFORMATION

Source of Water:
Division of Water Resources Permit #
 Groundwater Ft North From Southeast Corner and Ft. West From Southeast Corner of Sec Twp Rge East West
 Surface Water Ft North From Southeast Corner and (Stream, Pond etc.) Stream Ft West From Southeast Corner Sec 11 Twp 9 Rge 17 East West
 Other (explain) (purchased from city, R.W.D.#)

Disposition of Produced Water: Disposal Repressuring
Docket #

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 250 Colorado Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rules 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.

RECEIVED
AUG 27 1984
8-27-1984
KANSAS CORPORATION COMMISSION
CONSERVATION DIVISION
Wichita, Kansas

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 [Signature]
Title [Signature]
Date 8-21-84
Subscribed and sworn to before me this 24th day of August 1984
Notary Public Betty J. Ludwig
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
 KEC SWD/Rep NGPA
 KGS Plug Other (Specify)

Sec. 11 Twp. 9 Rge. 17

Operator Name Helmerich & Payne, Inc. Lease Name Oswald Well# 5 SEC. 11 TWP. 9S RGE. 17 East West

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

Tops
 Anhydrite 1284 to 1321
 Topeka 2891
 Heebner 3109
 Toronto 3130
 LKC 3150
 BKC 3393
 Arb 3428
 LTD 3476
 RTD 3478

| Name | Top | Bottom |
|----------|-----------------|--------|
| LKC | 3312 | 3316 |
| | 11-12% ϕ N | |
| | 3246 | 3252 |
| | 20% ϕ N | |
| | 23-35 ohm-m | |
| | 3190 | 3198 |
| | 8-15% ϕ N | |
| | 33-50 ohm-m | |
| Arbuckle | 3429 | 3437 |
| | 10-20% ϕ N | |
| | 25-29 ohm-m | |

DST #1 Conglomerate 3395 - 3420
 7-15-84 Cheney Testing
 20-30-60-60

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 ISIP = 596
 FFP = 67 to 67 Weak surface blow
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DST #2 Arbuckle 3427 - 3443 7-16-84 Cheney Testing
 15-30-30-60

IFP = 297 - 438 Strong blow
 ISIP = 962
 FFP = 531 - 720 Strong blow
 FSIP = 952
 IHP = 1770
 FHP = 1687 Rec 1690' 23.5 gravity oil
 60' mud cut oil

| 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 | 85/8 | 23# | 261 | Cl A | 150 | 2% gel 3% CaCl ₂ |
| Prod. Csg | 5 1/2 | 77/8 | 14# | 3477 | Self Stress | 100 | |
| | | DV Tool @ | 1303 | Top Stage | 60-40 Poz | 330 | 4% gel |
| | | | | | Cl A | 50 | 2% gel 3% CaCl ₂ |
| PERFORATION RECORD | | | | Acid, Fracture, Shot, Cement Squeeze Record | | | |
| shots per foot | specify footage of each interval perforated | | | (amount and kind of material used) | | | Depth |
| 2 | 3429 - 3437 | | | 80 gal 15% HCl | | | 3429 - 37 |
| TUBING RECORD size <u>2 3/8</u> set at <u>3439</u> packer at _____ Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | |
| Date of First Production | Producing method <input type="checkbox"/> flowing <input checked="" type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain) | | | | | | |
| 8-2-84 | | | | | | | |
| Estimated Production Per 24 Hours | Oil | Gas | Water | Gas-Oil Ratio | Gravity | | |
| | 33 Bbls | 0 MCF | 159 Bbls | | CFPB 25.4 @ 600 | | |

Disposition of gas: vented
 sold
 used on lease
 None

METHOD OF COMPLETION
 open hole perforation
 other (specify) _____
 Dually Completed.
 Commingled

PRODUCTION INTERVAL

Arb 3429 - 3437