

1366564

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

| | | | | |
|---|--|------------------------------|----------------------------------|---------------------------------|
| Drill Stem Tests Taken <i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey | <input type="checkbox"/> Yes <input type="checkbox"/> No | Name | Top | Datum |
| Cores Taken | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Electric Log Run | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Geologist Report / Mud Logs | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| List All E. Logs Run: | | | | |

| CASING RECORD <input 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 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> Plug Off Zone | | | | |

- Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
- Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
- Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

| | | | | | |
|---|--|---------|-------------|---------------|---------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ | | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |

| | | | | | |
|---|---|--|--|--|--|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> | | | PRODUCTION INTERVAL: Top _____ Bottom _____ | |
| | | | | | |

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | | | |
|----------------|-------|---------|------------|
| TUBING RECORD: | Size: | Set At: | Packer At: |
|----------------|-------|---------|------------|

HUGHES DRILLING REPORT

Fr. Co., Kansas
1700 FSL 3020 FEL

Well No. J-4
Farm W. Brocks

SURFACE CASING
Size 6 1/4
Feet 29.15
Circulated 10 sx cement

PERMANENT CSG.
Size 2 7/8 8cl EUE (11 in)
Feet 714.75 of pipe float shoe on Bottom

API # 15099-27156
Sec 2 TWP 16 R 20

OPERATOR Hughes Drilling

T. D. at Completion 740
Contractor HUGHES DRILLING CO.

| STRATA THICKNESS | FORMATION DRILLED | T.D. |
|------------------|-------------------|------|
| 2 | soil | 2 |
| 22 | clay | 24 |
| 4 | shale | 28 |
| 24 | lime | 52 |
| 7 | shale | 59 |
| 10 | lime | 69 |
| 6 | shale | 75 |
| 24 | lime | 99 |
| 53 | shale | 152 |
| 1 | lime | 153 |
| 8 | shale | 161 |
| 16 | lime | 177 |
| 55 | shale | 232 |
| 26 | lime | 258 |
| 9 | shale | 267 |
| 8 | lime | 275 |
| 28 | shale | 303 |
| 11 | lime | 314 |
| 22 | shale | 336 |
| 30' 24 | lime | 360 |
| 8 | shale | 368 |
| 20' 23 | lime | 391 |
| 4 | shale | 395 |
| 3 | lime | 398 |
| 3 | shale | 401 |
| 6 | lime | 407 |
| 113 | shale | 520 |
| 3 | sand | 523 |
| 52 | shale | 575 |
| 10 | lime | 585 |
| 8 | shale | 593 |
| 5 | lime | 598 |
| 7 | shale | 605 |
| 9 | lime | 614 |
| 11 | shale | 625 |
| 4 | lime | 629 |
| 6 | shale | 635 |
| 12 | lime | 647 |
| 7 | shale | 654 |
| 1 | lime | 655 |
| 3 | shale | 658 |

| DATE | DRILLED | | REMARKS - TYPE WORK - BILLING REF. | PIPE TALLY |
|-----------|---------|-----|------------------------------------|-------------------|
| | FROM | TO | | |
| 7/29/17 | 0 | 2 | soil | (1) 21.5 - 21.5 |
| 24' | 2 | 24 | clay | (2) 21.5 - 44.0 |
| 7/25/17 | 24 | 28 | shale | (3) 22.5 - 66.5 |
| 5 7/8 PDC | 28 | 52 | lime | (4) 22.5 - 89.0 |
| | 52 | 59 | shale | (5) 22.5 - 111.5 |
| | 59 | 69 | lime | (6) 22.5 - 134.0 |
| | 69 | 75 | shale | (7) 22.5 - 156.5 |
| | 75 | 99 | lime | (8) 22.5 - 179.0 |
| | 99 | 152 | shale | (9) 21.5 - 201.5 |
| | 152 | 153 | lime | (10) 22.5 - 224.0 |
| | 153 | 161 | shale | (11) 22.5 - 246.5 |
| | 161 | 177 | lime | (12) 22.5 - 269.0 |
| | 177 | 232 | shale | (13) 22.5 - 291.5 |
| | 232 | 258 | lime | (14) 22.5 - 314.0 |
| | 258 | 267 | shale (Broken 269-277) | (15) 22.5 - 336.5 |
| | 267 | 275 | lime | (16) 22.5 - 359.0 |
| | 275 | 303 | shale | (17) 22.5 - 381.5 |
| | 303 | 314 | lime | (18) 22.5 - 404.0 |
| | 314 | 336 | shale (lime 319-320) | (19) 22.5 - 426.5 |
| 30' | 336 | 360 | lime | (20) 22.5 - 449.0 |
| | 360 | 368 | shale (stone 367-368) | (21) 22.5 - 471.5 |
| 20' | 368 | 391 | lime | (22) 22.5 - 494.0 |
| | 391 | 395 | shale (stone 391-392) | (23) 22.5 - 516.5 |
| | 395 | 398 | lime | (24) 22.5 - 539.0 |
| | 398 | 401 | shale | (25) 22.5 - 561.5 |
| "Hertha" | 401 | 407 | lime | (26) 22.5 - 584.0 |
| | 407 | 520 | shale (Broken 411-414) | (27) 22.5 - 606.5 |

