Form ACO-1 September 1999 Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

| | ORIGINAL |
|--|---|
| Operator: License # 33365 CONFIDENTIAL | API No. 15 - 125-30734 6 000 UNIVITE |
| Name: Layne Energy Operating, LLC | County: Montgomery |
| Address: 1900 Shawnee Mission Parkway | NWNWSec. 20 Twp. 32 _ S. R. 16 |
| City/State/Zip: Mission Woods, KS 66205 | 820 feet from S / N (circle one) Line of Section |
| Purchaser: | 805 feet from E / ((circle one) Line of Section |
| Operator Contact Person: M. B. Nattrass ≤ | Footages Calculated from Nearest Outside Section Corner: |
| Purchaser: | (circle one) NE SE NW SW |
| Contractor: Name: McPherson Drilling No. 20 00 00 00 00 00 00 00 00 00 00 00 00 | Lease Name: Casey Well #: 4-20 |
| License: 5675 | Field Name: Brewster |
| Wellsite Geologist: Q | Producing Formation: Cherokee Coals |
| Designate Type of Completion: | Elevation: Ground: 762 Kelly Bushing: |
| New Well Re-Entry Workover | Total Depth: 1178 Plug Back Total Depth: 1170 |
| OilSIOWTemp. Abd? | Amount of Surface Pipe Set and Cemented at 80 Feet |
| ✓ Gas ENHR SIGW | Multiple Stage Cementing Collar Used? |
| | |
| Dry Other (Core, WSW, Expl., Cathodic etc.) 2 3 2005 | If Alternate II completion, cement circulated from 1178 |
| If Workover/Re-entry: Old Well Info as follows: | A leet depth to Surface w/ 135 sx cmt. |
| Operator: OOIVI IDEIV | leet depth tosx cm. |
| Well Name: | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Q-22-67 |
| Original Comp. Date:Original Total Depth: | |
| Deepening Re-perf: Convto Enhr./SWD | Chloride Content |
| Plug Back Plug Back Total Depth | Dewatering method used_N/A - Air Drilled |
| Commingled Docket No. | Location of fluid disposal if hauled offsite: |
| Dual Completion Docket No | Operator Name: |
| Other (SWD or Enhr.?) Docket No. | • |
| 5/2/2005 5/3/2005 6/27/2005 | Lease Name: License No.: |
| Spud Date or Date Reached TD Completion Date or | Quarter Sec TwpS. R East West |
| Recompletion Date Recompletion Date | County: Docket No.: |
| | , |
| INSTRUCTIONS: An original and two copies of this form shall be filed with Kansas 67202, within 120 days of the spud date, recompletion, workove Information of side two of this form will be held confidential for a period of 1 107 for confidentiality in excess of 12 months). One copy of all wireline logs TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. | or or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 2 months if requested in writing and submitted with the form (see rule 82-3-and geologist well report shall be attached with this form. ALL CEMENTING |
| All requirements of the statutes, rules and regulations promulgated to regula herein are complete and correct to the best of my knowledge. | te the oil and gas industry have been fully complied with and the statements |
| Signature: MS / V / M | KCC Office Use ONLY |
| Title: Agent Date: 9/21/2005 | Letter of Confidentiality Attached |
| Subscribed and sworn to before me this 215th day of September | If Denied, Yes Date: |
| and 100 miles | Wireline Log Received |
| 20_05 | Geologist Report Received |
| Notary Public: Mus—U. | UIC Distribution |
| Date Commission Expires: 10/14/201 | |



Side Two

KCC ORIGINAL

AUG 2 3 2005

| Operator Name: La | yne Energy Opera | ating, LL | C | | se Name: | | | _ Well #: 4-21 | J | |
|--|--|--------------------------|---|----------------------|---------------------------------------|--|---------------------|-------------------|--------------|------------|
| Sec. 20 Twp. 3 | 32 S. R. 16 | . 📝 Eas | t West | Cour | nty: Monte | gomery U | <u>VHIUEN</u> | IIAL | | |
| INSTRUCTIONS: S tested, time tool ope temperature, fluid re Electric Wireline Log | n and closed, flowing covery, and flow rate | g and shu s if gas to | t-in pressures, surface test, a | whether long with | shut-in pre | ssure reached | static level, hydro | ostatic pressure | es, bottom | hole |
| Drill Stem Tests Taken | | | | | ⊘ L | ✓ Log Formation (Top), Depth and Datum Sam | | | | ample |
| Samples Sent to Geological Survey Yes VNo | | | | Nam | е . | | Тор | Da | atum | |
| Cores Taken | | Y | es ✓ No | | Paw | nee Lime | | 510 GL | 25 | 52 |
| Electric Log Run (Submit Copy) | | √ Y | ′es | | Exce | ello Shale | , * | 660 GL | 10 | 02 |
| List All E. Logs Run: | | | | | V Sh | ale | | 708 GL | 54 | ı |
| Compensated D | ensity Neutron | | | | Mine | eral Coal | | 747 GL | 15 | 5 |
| Dual Induction | | | | | Miss | sissippian | | 1077 GL | -3 | 15 |
| | | Bane | CASING | | | | tion oto | | | |
| Purpose of String | Size Hole | 1 | ort all strings set-c ze Casing | | eight | Setting | Type of | # Sacjs | Type ar | nd Percent |
| Surface | Drilled 11 | 8.65 | t (In O.D.) | 24 | s. / Ft. | Depth 80 | Class A | Used 40 | - | cement |
| Casing | 6.75 | 4.5 | | 10.5 | · · · · · · · · · · · · · · · · · · · | 1178 | Thick Set | 135 | | |
| | | <u> </u> | | | | | | | | |
| | The second second | . 4. 20 | ADDITIONAL | · | | JEEZE RECORD |) | <u> </u> | <u>h. 5 </u> | |
| Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone | Depth Top Bottom | Туре | of Cement | l | ks Used | | | Percent Additives | | |
| | | L ., | | <u> </u> | | | | | | |
| Shots Per Foot | | | RD - Bridge Plug Each Interval Perl | |)e | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth | | | | Depth |
| | See Attached | | | | | DECENTED | | | | |
| | | | | | | RECEIVED KANSAS CORPORATION COMMISSION | | | | |
| | the state of the s | | | | | | SEP 2 | | | |
| | | | · · · · · - · · · - · · · · · · · · · · | ***** | | | CONSERVATIO | N DIVISION | | |
| | | | · | | | | WICHIT | | | |
| TUBING RECORD 2.3 | Size 3/8" | Set At 1084' | | Packer | r At | Liner Run | Yes ✓ No | | | |
| Date of First, Resumer | d Production, SWD or E | inhr. | Producing Meth | od | Flowing | ı | ng Gas Lif | t Othe | er (Explain) | |
| Estimated Production Per 24 Hours | l . | Bbis. | 1 | Mcf | Wate | | | Sas-Oil Ratio | | Gravity |
| Disposition of Gas | 0 METHOD OF C | OMPLETIC | 19 on | | 10 | Production Inter | val | | | |
| Vented ✓ Sold | Used on Lease | | Open Hole | ▼ Pe | erf. 🗀 n | ually Comp. | ✓ Commingled | | | |
| (If vented, Submit ACO-18.) Other (Specify) | | | | | | | | | | |

CONFIDENTIAL

ICCC AUG 2 3 2005 CONFIDENTIAL

ORIGINAL

| Operator Name: | Layne Energy Operating, LLC. | | |
|----------------|--|--|---------------------------|
| Lease Name: | Casey 4-20 | | |
| | Sec. 20 Twp. 32S Rng. 16E, Montgomery County | | |
| API: | 15-125-30734 | | |
| Shots per Foot | Perforation Record | Acid, Fracture, Shot, Cement Squeeze Record | Depth |
| 4 | | | 7477 4055 |
| 14 | | Riverton, Rowe, Weir, Mineral - 1,800gal 15% HCL + | <i> / 4 / . / -</i> 1055 |
| 4 | 1053-1055, 1005.5-1008, 837-838.5, 747.7-485 | Riverton, Rowe, Weir, Mineral - 1,800gal 15% HCL + 400bbls water + 3,200# 20/40 Sand | /4/./-1055 |
| 4 | 1053-1055, 1005.5-1008, 837-838.5, 747.7-485 | 1 | |

RECEIVED KANSAS CORPORATION COMMISSION SEP 2 3 2005

CONSERVATION DIVISION WICHITA, KS

KANSAS CORPORATION COMMISSION AUG 2 2 2005 Oil & Gas Conservation Division

September 1999

WELL COMPLETION FORMCONFIDENTIAL Form Must Be Typed **WELL HISTORY - DESCRIPTION OF WELL & LEASE**

| Operator: License # 33365 CONFIDENTIAL Name: Layne Energy Operating, LIC | API No. 15 - 125-30734-00-60 ORIGINAL County: Montgomery |
|--|--|
| Address: 1900 Shawnee Mission Parkway | _NW_NW_ Sec. 20 Twp. 32 S. R. 16 7 East West |
| City/State/Zip: Mission Woods, KS 66205 | 820 feet from S / (N (circle one) Line of Section |
| Purchaser: | 805 feet from E / (Gircle one) Line of Section |
| Operator Contact Person: Victor H. Dyal | Footages Calculated from Nearest Outside Section Corner: |
| Phone: (<u>913</u>) <u>748-3987</u> | (circle one) NE SE NW SW |
| Contractor: Name: McPherson Drilling | Lease Name: Casey Well #: 4-20 |
| License: 5675 | Field Name: Brewster |
| Wellsite Geologist: | Producing Formation: Cherokee Coals |
| Designate Type of Completion: | Elevation: Ground: 762 Kelly Bushing: |
| New Well Re-Entry Workover | Total Depth: 1178 Plug Back Total Depth: 1170 |
| OilSWDSIOWTemp. Abd. | Amount of Surface Pipe Set and Cemented at 80 Feet |
| ✓ GasENHR ✓ SIGW | Multiple Stage Cementing Collar Used? |
| Dry Other (Core, WSW, Expl., Cathodic, etc) | If yes, show depth setFeet |
| If Workover/Re-entry: Old Well Info as follows: | If Alternate II completion, cement circulated from 1178 |
| Operator: | feet depth to Surface w/ 135 sx cmt. |
| Well Name: | |
| Original Comp. Date: Original Total Depth: | Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) |
| Deepening Re-perf Conv. to Enhr./SWD | Chloride content N/A ppm Fluid volume bbls |
| Plug BackPlug Back Total Depth | Dewatering method used N/A - Air Drilled RECEIVED |
| Commingled Docket No | KANSAS CORPORATION OCCUPATION OCC |
| Dual Completion Docket No | ALIC 2 a 2005 |
| Other (SWD or Enhr.?) Docket No | |
| 5/2/2005 5/3/2005 | Lease Name: License No ONSERVATION DIVISION |
| Spud Date or Date Reached TD Completion Date or | QuarterSecTwpS. RWVZdSTA_KSVest |
| Recompletion Date Recompletion Date | County: Docket No.: |
| | |
| Kansas 67202, within 120 days of the spud date, recompletion, workove Information of side two of this form will be held confidential for a period of 1 | the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, er or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. I2 months if requested in writing and submitted with the form (see rule 82-3-and geologist well report shall be attached with this form. ALL CEMENTING. Submit CP-111 form with all temporarily abandoned wells. |
| All requirements of the statutes, rules and regulations promulgated to regulaterin are complete and correct to the best of my knowledge. | ate the oil and gas industry have been fully complied with and the statements |
| Signature: WWW Halyes | KCC Office Use ONLY |
| Title: Agent Date: 8/22/2005 | Letter of Confidentiality Attached |
| Subscribed and sworn to before me this ZZ day of August | If Denied, Yes Date: |
| , | Wireline Log Received |
| 20 <u>05</u> . | Geologist Report Received |
| Notary Public: | UIC Distribution |
| Date Commission Expires: /6/14/2008 | |



MARGARET ALLEN Notary Public - State of Kansas My Appt. Expires 10/14/05

ODICINIA

| • • | MICINENITI | Δl | | 0. | <i>ac 1110</i> | AUG | 1 7 7 7003 | () } | $\langle \rangle$ | INA |
|--|---|--|--|--------------------------------------|-----------------------|--|---|-------------------|-------------------------|-----------------------|
| Operator Name: Lay | ne Energy Opera | ML ating, LL(| C. | Lass | _{a Nama} . C | aseVNF | IDENTIA | Well #: 4-20 |) | 11 47 1 |
| Sec. 20 Twp. 32 | | | West | | ty: Montg | | | 7.0 | | |
| NSTRUCTIONS: Shested, time tool open temperature, fluid rec Electric Wireline Logs | now important tops a and closed, flowing overy, and flow rate | and base o g and shut es if gas to | f formations po- in pressures, surface test, a | enetrated whether s llong with | . Detail all | cores. Report | static level, hydro | ostatic pressure | es, botton | i hole |
| Orill Stem Tests Take | | Ye | es √ No | | √ Lo | og Formati | on (Top), Depth | and Datum | s | ample |
| Samples Sent to Geo | | ☐ Ye | es √No | | Name |) | | Тор | D | atum |
| Samples Sent to Geo Cores Taken | nogical Survey | | _ | | Pawr | nee Lime | | 510 GL | 2 | 52 |
| Electric Log Run | | <u>√</u> Y | = | | Exce | llo Shale | | 660 GL | 1 | 02 |
| (Submit Copy) | | | | | V Sh | | | 708 GL | 5 | 4 |
| List All E. Logs Run: | | | | | | | | 747.01 | 1 | - E |
| Compensated De | ensity Neutron | | | | ,,,,,, | ral Coal | | 747 GL | 1 | |
| Dual Induction | | | | | Miss | issippian | | 1077 GL | -3 | 315 |
| | | | | | | | | | | |
| | | Repo | | RECORD conductor, | _ | w 🔝 Used rmediate, produc | tion, etc. | | | |
| Purpose of String | Size Hole Drilled | | e Casing t (In O.D.) | | eight s./Ft. | Setting Depth | Type of Cement | # Sacjs Used | | nd Percent ditives |
| Surface | 11 | 8.65 | | 24 | | 80 | Class A | 40 | Type ' | cement |
| Casing | 6.75 | 4.5 | | 10.5 | | 1178 | Thick Set | 135 | | |
| | | | ADDITIONAL | CEMENIA | ING / FOU | FEZE DECODE | | | | |
| Purpose: | Depth | T | ··· | T | s Used | EEZE RECORI | | Percent Additives | | |
| Perforate Protect Casing | Top Bottom | Туре | of Cement | #Sacr | va Osed | | Type and | Additives | | |
| Plug Off Zone | | | | | | | | | <u> </u> | |
| | | · | | | | | . , | | | |
| Shots Per Foot | | | RD - Bridge Plug Each Interval Per | | e | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth | | | | |
| | | | | | | K | RECE | EIVED | | |
| | | | | | | | | | SION | |
| | | | | | | | AUU Z | 3 2005 | | |
| | | | | | | | CONSERVATION WICHIT | ON DIVISION | | |
| | | | | | | | *************************************** | n, No | | |
| TUBING RECORD | Size | Set At | | Packer | At | Liner Run | Yes ✓ No |) | | |
| Date of First, Resumero | | Enhr. | Producing Met | hod | Flowing | Pump | ng 🔲 Gas L | ift Oth | er (Explain) | |
| Estimated Production Per 24 Hours | Oil | Bbls. | Gas | Mcf | Wate | r E | Bbis. | Gas-Oil Ratio | | Gravity |
| Disposition of Gas | METHOD OF | COMPLETIC | DN | . 1 | | Production Inte | rval | | | |

Open Hole
Other (Specify)

Perf. Dually Comp.

Commingled _

Vented Sold Used on Lease
(If vented, Submit ACO-18.)

CONFIDENTIAL

KCC AUG 2 2 2005 CONFIDENTIAL

ORIGINAL

MORNING COMPLETION REPORT

| Report Called in by | :: Terry Wolfer | | | Report taken by: | KRD | |
|---------------------|--|-------------------|--------------|--|--|---------------------------------------|
| EASE NAME 8 # | | AFE# | DATE | DAYS | CIBP | PBTD TYPE FLUID |
| asey 4-20 | | | 5/2/2005 | 11 | TYPE | |
| RESENT OPERAT | TION: | | | | | WT Vis |
| | | | | FROM UNDER SUR | CONTRACTOR MC | 1412 |
| EEPEST CASING | LINERS OD TOP & SHOP | DEPTH | REPAIR DOWN | I TIME HRS | RIG NO MIKE H | 1. |
| D SHOE DEPTH | 6 6/8" 24# J-65 Set 80 | | TEST | PERFS | | |
| PACKER OR ANCHOR | | QD ID | | TO | 8QuEEZI | D OR PLUG BACK PERFS |
| | | | | to | | 10 |
| | | | | TO | | TO TO |
| | | | | TO TO | | TO |
| | | | 1 | 10 | | |
| HRS | BRIEF DESCRIPTION | N OF OPERAT | ION | | | |
| | | | | | | |
| | MIRU MCPHERSON | DRILLING, DR | ILLED 11" HO | LE, 80' DEEP, HIT F | RIVER ROCK NO HARD | BASE UNTIL 65' |
| | | , - <u>-</u> | | | | |
| | RIH W/ 4 JTS 8 5/8 | SURFACE CASI | ING | | | |
| | IGH W 4 313 0 310 | 20111 11012 01121 | | | | |
| | | | | LIDED AN COUR OF | AENT LET 10 ET IN QUE | PEACE PIPE |
| | MIRU CONSOLIDAT | ED CIRCULATI | ED HOLE, PU | MPED 40 SCKS CEN | MENT, LET 10 FT IN SUF | CPACL FIFL. |
| | | | | | | |
| | SHUT DOWN FOR | NIGHT | | | | |
| | | | | | | · · · · · · · · · · · · · · · · · · · |
| | | | | | RE | CEIVED |
| | | | | | KANSAS CORP | ORATION COMMISSION |
| | | | | | Alic | 2 0 2005 |
| | | | | | AUB | -2-3-2005 |
| | | | | | CONSERV | ATION DIVISION |
| | _ | | | | WIC | ATION DIVISION CHITA, KS |
| | | | | | | 7.11.74.10 |
| • | | • | | | | |
| | | | | | | |
| DAILY COST ANA | Vete | | | | | |
| MILT COST ANA | . 7333 | | | | DETAILS OF RENTALS, S | ERVICES, & MISC |
| | | | | MCB | HERSON DRILLING @ | |
| dG | | | | 1 | | |
| | | | | | CEMENT) | |
| SUPERVISIÓN | 175 | 5 | | | TWORKS (LOC, RD, PIT) | 400 |
| | | | | SUR | FACE CASING | 800 |
| RENTALS | | | | LAN | D/ LEGAL | 2000 |
| | | | | CON | ISOLIDATED | 1500 |
| PEDIACEO | 400 | 1 | | ļ <u>-</u> | | |
| BERVICES | 400 | , | | | | |
| | | _ | | | ······································ | |
| MISC | 430 |) | | — | · · · · · · · · · · · · · · · · · · · | |
| | | | | • | | , |

CONSOLIDATED OIL WELL SERVICES 211 W. 14TH STREET, CHANUTE, KS 66720 620-431-9210 OR 800-467-8676

AUTHORIZTION

AUG 2 7 2005

3864 T' 'ET NUMBER LOCATION EUTEKA

FOREMAN RUSSELL MCGA CONFIDENTIAL

| | CONFIDENTIAL | | | | IT | | DDIC | INTAL | |
|---------------|--------------|-------|---------------|---------|---------|----------|-----------------|-----------|--|
| DATE | CUSTOMER# | WEL | L NAME & NUME | BER | SECTION | TOWNSHIP | URANGE U | I ÆÒPMTY | |
| 5-4-55 | 4758 | CASES | 4-20 | | | | | MowTgemen | |
| CUSTOMER | | | | | | 4 4 4 | | * 107.1 | |
| LAtouE | ENTER | | | GUS | TRUCK # | DRIVER | TRUCK # | DRIVER | |
| MAILING ADDRE | SS | , | | JUN # 5 | 444 | AINN | | | |
| flo. Bi | × 160 | - | | | 442 | ANTHOURY | | | |
| CITY | | STATE | ZIP CODE |] | 436 | JAson | | | |
| | | | | 1 | | | | | |

CASING SIZE & WEIGHT 4 1/3 HOLE DEPTH 1/18 HOLE SIZE 6314 JOB TYPE Louis town CASING DEPTH 1/76 DRILL PIPE TUBING OTHER SLURRY WEIGHT 13. 2 SLURRY VOL 46 36/ CEMENT LEFT in CASING_ RATE 3 Rom DISPLACEMENT 18.6 B/ DISPLACEMENT PSI__ MIX PSI

A 105 117h to come Kleep at 13.2 # Shot Down wash out Thurl sel Land + hines belong 41/2 Alm. Lietiner w/ 18.6 Fame fla To 1106 # FLOT CASIL IN AT O PST. 600 h Coment KETUINS RECEIVEDINGE KANSAS CORPORATION COMMISSION

Jub Chmuletz TERT TOWN.

AUG 2 2 2005 400

| | | CONSERVATION DIVIS | ION | |
|-----------------|------------------|------------------------------------|------------|-------------------|
| ACCOUNT CODE | QUANITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
| 5401 | | PUMP CHARGE | 765.00 | 715.00 |
| 545L |).5 | MILEAGE | 2.50 | 62.50 |
| 112 L A | A 135 5ks | Thicksof (ement | 13.00 | 1550,00 |
| 1110 A | 27 5KS | Kolsent 10 d Partok | 16.70 | 456.30 |
|)111 A | So [#] | Met Asiliante - Pie Flich | 1.55 | 77.30 |
| 5407 A | 7.4 TONS | 25 miles | .92 | 170.20 |
| 5562 C | 3 hr | 80 Bbl VAC Truck | 82.00 | 246.00 |
| 5,605 A | 4 453 | Welliar | 75.60 | 300.00 |
| 4311 | | 4/12 well on collar | 16.00 | 48.60 |
| 4404 | . 1 | 41/2 To, Ludger 410 | 38.60 | 36.00 |
| · | | | | |
| | | | | 3918.50 |
| | | Sub 7670! 5.3% | SALES TAX | 125.86 |
| | 9.4 | | ESTIMATED | 11 6411 (≥) |

CONFIDENTIAL

ORIGINAL

GEOLOGIC REPORT

KCC AUG 2 2 2005

LAYNE ENERGY Casey 4-20

NW 1/4, NW 1/4, 820' FNL, 805' FWLCONFIDENTIAL

Section 20-T32S-R16E

MONTGOMERY COUNTY, KANSAS

Drilled: May 2-3, 2005 Logged: May 3, 2005 A.P.I.# 15-125-30734

Ground Elevation: 762' Depth Driller: 1,178'

Depth Logger: 1,178' Surface Casing: 8 ⁵/₈" @ 80' Production Casing: 4 ½" @ 1,170'

Cemented Job: Consolidated

Open Hole Logs: Compensated density neutron log, dual induction sfl/gr log

RECEIVED KANSAS CORPORATION COMMISSION

AUG 2 3 2005

CONSERVATION DIVISION WICHITA, KS

| FORMATION | TOPS (in feet below ground surface) |
|---------------------|-------------------------------------|
| Quaternary Alluvium | Surface |
| Lenapah Lime | 274 |
| Altamont Lime | |
| Weiser Sand | 401 |
| Pawnee Lime | 510 |
| Anna Shale | 538 |
| Lexington Coal | 544 |
| First Oswego Lime | 598 |
| Little Osage Shale | 632 |
| Excello Shale | 660 |
| Mulky Coal | 664 |
| Iron Post Coal | 682 |
| "V" Shale | 708 |
| Croweburg Coal | 710 |
| Fleming Coal | 721 |
| Mineral Coal | 747 |
| Tebo Coal | 802 |
| Weir Pitt Coal | 837 |
| AW Coal | 1,006 |
| Riverton Coal | 1,053 |
| Mississippian | 1,077 |
| | |