WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

| #32278 | 167-22 050 |
|--|---|
| Operator: License # #32278 Name: TENGASCO , INC. | API No. 15 - 167-22,858 - 000 |
| Name: | County: Russell |
| Address: P.O. Box 458 | $\frac{\text{NW} \cdot \text{SW}}{3.632} = \frac{\text{NE}}{\text{Sec.}} = \frac{29}{\text{Twp.}} = \frac{13}{\text{S. R.}} = \frac{13}{\text{East } \times \text{West}}$ |
| City/State/Zip: Hays, Kansas 67601 | 3630 feet from N (circle one) Line of Section |
| Purchaser: Cooperative Refining LLC | 2310 feet from E/ W (circle one) Line of Section |
| Operator Contact Person: Ed Glassman | Footages Calculated from Nearest Outside Section Corner: |
| Phone: (785) 625-6374 | (circle one) NE (SE) NW SW |
| Contractor: Name: Woodman-Fannitti Drlg. Co. | Lease Name: Thacker Well #: 2 |
| License: 5122 | Field Name: |
| Wellsite Geologist: Todd Morgenstern | Producing Formation: Lansing-Kansas City |
| Designate Type of Completion: | —Elevation: Ground: 1800 Kelly Bushing: 1805 |
| New Well Re-EntryX Workover | Total Depth: 3355' Plug Back Total Depth: 3062' |
| • | 0.1.0 |
| | Amount of Surface Pipe Set and Cemented at Feet |
| GasX_ ENHR SIGW | Multiple Stage Cementing Collar Used? ☐ Yes ☒ No |
| Dry Other (Core, WSW, Expl., Cathodic, etc) | If yes, show depth setFeet |
| If Workover/Re-entry: Old Well Info as follows: Operator: Woodman-Iannitti | If Alternate II completion, cement circulated from |
| | feet depth to 801 555 sx cmt. |
| Well Name: THACKER #2 | - 2 0 |
| Original Comp. Date: 9-26-89 Original Total Depth: 3355 - | Drilling Fluid Management Plan Not Applicable (Data must be collected from the Reserve Pit) |
| Deepening Re-perfX_Conv. to Enhr./\$WD C | (Data must be collected from the Reserve Pit) OUWO KAR 7/19 |
| Plug BackPlug Back Total Depth | Chitoride content ppm Fluid volume bbls |
| Commingled Docket No | Dewatering method used |
| Dual Completion Docket No | Location of fluid disposal if hauled offsite: |
| X Other (SWD or Enhr.?) Docket NoE - 27 , 838 | Operator Name: |
| | Lease Name: License No.: |
| Spud Date or Date Reached TD Completion Date or | Quarter Sec Twp S. R East West |
| Spud Date or Date Reached TD Completion Date or Recompletion Date | |
| | County: Docket No.: |
| | |
| INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas 67202, within 120 days of the spud date, recompletion, workover Information of side two of this form will be held confidential for a period of 12 107 for confidentiality in excess of 12 months). One copy of all wireline logs are TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. | or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. 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 regulate | the oil and gas industry have been fully complied with and the statements |
| nerein are complete and correct to the best of my knowledge. | , para and and ordination |
| Signature: Tolgan Folganman | KCC Office Hos ONLY |
| | KCC Office Use ONLY |
| Title: (9eo(0915+ Date: 02-15-200 | Letter of Confidentiality Attached |
| Subscribed and sworn to before me this 15th day of 7eb. | If Denied, Yes Date: |
| 62.05d. | Wireline Log Received |
| | Geologist Report Received |
| Notary Public: Land & R A Commandia LINDA K. | PFANNENDTIEL UIC Distribution |
| Date Commission Expires: \$15/2000 | E OF KANSAS, |

| Operator Name:T | engasco, | Inc. | | Leas | e Name:_ | Thacke | er . | Well #: | • | | |
|--|---|---------------------------------|--------------------------------|------------------------|-------------------------------|---|---------------------------------------|--------------------|---------------------------------------|------------------------|--|
| • | 13 s. R. 13 | _ | 🔀 West | Count | y: Ru | ssell | | | e e se com | | |
| tested, time tool ope temperature, fluid re | Show important tops en and closed, flowin ecovery, and flow rate gs surveyed. Attach | ng and shut-i es if gas to s | n pressures, surface test, a | whether s long with | hut-in pre | ssure reached | static level, hydros | tatic pressu | res, botton | n hole | |
| Drill Stem Tests Tak | | √ Yes | s []No have th | ese | X L | og Formatio | on (Top), Depth an | d Datum | □s | ample | |
| Samples Sent to Geological Survey | | | | Nam | | _ | Top I | | | | |
| Cores Taken | | | | 1 | Anhydrite 783 B/Anhydrite 822 | | | | +1022 +983 | | |
| Electric Log Run | | ∑ Yes | | | | B/Anhydrite 822 +9 Topeka 2680 -8 | | | | | |
| • | CCC should | سيعا | | | - | ebner | • | 909 | | 104 | |
| | | 114 V C | | | LKC | | 2 9 | 2973 | | | |
| List All E. Logs Run | : Radiation | Guard : | Loq | | Ark | ouckle | 3 3 | 3 3 2 [.] | -1 | 527 | |
| • | Cement Bon | d Log | | • | | | | . • . • | | | |
| | | Report | CASING I all strings set-co | | | w XX Used rmediate, product | ion, etc. | | | | |
| Purpose of String | Size Hole Drilled | | Casing In O.D.) | Weight Lbs. / Ft. | | Setting Depth | Type of Cement | # Sacjs Used | | nd Percent Iditives | |
| Surface | 12.25" | 8.625" | | 23# | | 210' | 60-40POZ | 135 | 3%cc 2% g | | |
| Production | 7.825" | 5.5 | 5.5" | | # | 3351' | common | 100 | 10% | salt | |
| a 2 277 A/ | | | · | | - | man file of the | , • | 20 bk | ol. sa | lt flu | |
| | | <u> </u> | ADDITIONAL | CEMENTI | NG / SQU | IEEZE RECORD | | | | | |
| Purpose: _X_ Perforate | Depth Top Bottom | Type of Cement | | #Sacks Used | | Type and Percent Additives | | | | | |
| Protect Casing Plug Back TD Plug Off Zone | 801' | 60/40 | POZ | 555 |) | gel & | cc | | | | |
| Shots Per Foot | Specify Footage of Each Interval Perforated | | | | , | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth | | | | | |
| four | 6 2928 2 | 934 | Toronto | no | Found | 500 15 | NEFE | · '@, | * | | |
| four | 4' 2996-3 | 000. | LKC "A | " zor | n e | 750 15 | NEFE | | | | |
| four | 9' 3012-3 | 021 | LKC "C | zor | ı e | 750 15 | % NEFE | | | | |
| | v | | | | | | | | | | |
| TUBING RECORD | Size | Set At | | Packer A | At . | Liner Run | · · · · · · · · · · · · · · · · · · · | | | | |
| Seal Tite | 2.375" | 2857 ' | | 2860' | · | _ |]Yes √∏ No | | | | |
| | d Production, SWD or E | | Producing Meth | | | | <u>_</u> | | | | |
| To be dete | ermined | | | | Flowing | Pumpin | g Gas Lift | Oth | er <i>(Explain)</i> | | |
| Estimated Production Per 24 Hours | Oil | Bbls. | Gas I | Mcf | Wate | r Bt | ds. Ga | s-Oil Ratio | | Gravity | |
| Disposition of Gas | METHOD OF C | COMPLETION | | . 4. | | Production Interv | /al | | | · | |
| Vented Sold | Used on Lease umit ACO-18.) | | Open Hole Other (Specif | Perf | D | ually Comp. | Commingled | | · · · · · · · · · · · · · · · · · · · | | |

| , | ngasco, | Inc. | Side | Тhас | ker | 2 | | |
|---|---|--|------------------------------|---------------------------------------|---|--------------------------|---|--|
| Operator Name. | : | | Lease N | Name: | | _ Well #:2 | | |
| tested, time tool open temperature, fluid reco | ow important tops and closed, flowin overy, and flow rate | East West and base of formations g and shut-in pressure es if gas to surface test final geological well sit | penetrated. Its, whether shu | Detail all cores. Reput- | ed static level, hydro | static pressur | es, bottom hole | |
| Orill Stem Tests Taken (Attach Additional S | | | hese | ₹ Log Form | nation (Top), Depth a | nd Datum | Sample | |
| Samples Sent to Geol | ogical Survey | ☐ Yes No | | Name Anhydrite | • | Top 783 | Datum + 1 0 2 2 | |
| List All E. Logs Run: | C should | • | | B/Anhydri Topeka Heebner LKC Arbuckle | te 2 2 2 | 922 680 909 973 | +983 -875 -1104 -1168 -1527 | |
| 3 | adiation (| | | Albuckle | · · · · · · · · · · · · · · · · · · · | 332 | -1327 | |
| | | | G RECORD | New XX Used | fuction, etc. | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weigh Lbs./F | | Type of Cement | # Sacjs Used | Type and Percent Additives | |
| Surface | 12.25" | 8.625" | . 23# | 210' | 60-40POZ | 135 | 3%cc + | |
| Production | 7.825" | 5.5" | 14# | 3351' | common | 100 | 10% salt | |
| * 10 mg | | | | | - | 20. bb | l. sält flu | |
| · | · * * * * * * * * * * * * * * * * * * * | ADDITIONA | AL CEMENTING | S / SQUEEZE RECO | RD . | | | |
| Purpose: X Perforate | Depth Top Bottom | Type of Cement | #Sacks U | sed | Type and Percent Additives | | | |
| Protect Casing Plug Back TD Plug Off Zone | 801' | 60/40 POZ | 555 | gel | & CC | | (.0) | |
| riug Oil Zone | | | | | · · · · · · · · · · · · · · · · · · · | | . 17 | |
| Shots Per Foot | Specify F | ON RECORD - Bridge Pl Footage of Each Interval P | erforated | | Fracture, Shot, Cement (Amount and Kind of Mat | Squeeze Recor | E. PPS CAMP | |
| four 6 | 2928-2 | 934 Toront | - V | 500 . 1 | 5% NEFE | DOR 1 | D GU PROP | |
| four 4 | | | 'A" zone | | 5% NEFE | FOI | ON Pronce | |
| four 9 | 3012-3 | 021 LKC " | 'C''zone | 7-5-0-1 | 5% NEFE | Mal | J. CERVICE | |
| | | | | E MERCE P. T. | | - (RU | m () | |
| TUBING RECORD | Size | Set At | Packer At | Liner Run | · | | 148c M | |
| eal Tite | 2.375" | 2857' | 2860' | Liner Hun | Yes V No | | In lar | |
| Date of First, Resumerd P | • | nhr. Producing Me | | Flowing Pun | nping Gas Lift | Othe | er (Explain) | |
| To be deter Stimated Production Per 24 Hours | 1. | Bbls. Gas | Mcf | Water | | as-Oil Ratio | Gravity | |
| Disposition of Gas | METHOD OF C | OMPLETION | <u> </u> | Production In | terval | · | | |
| | | | • | i roduction in | TG: | | | |