KOLAR Document ID: 1517361

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

| OPERATOR: License # | API No.: |
|--|--|
| Name: | Spot Description: |
| Address 1: | |
| Address 2: | Feet from North / South Line of Section |
| City: | Feet from East / West Line of Section |
| Contact Person: | Footages Calculated from Nearest Outside Section Corner: |
| Phone: () | □NE □NW □SE □SW |
| CONTRACTOR: License # | GPS Location: Lat:, Long: |
| Name: | (e.g. xx.xxxxxx) (e.gxxx.xxxxxx) |
| Wellsite Geologist: | Datum: NAD27 NAD83 WGS84 |
| Purchaser: | County: |
| Designate Type of Completion: | Lease Name: Well #: |
| New Well Re-Entry Workover | Field Name: |
| | Producing Formation: |
| ☐ Oil ☐ WSW ☐ SWD | Elevation: Ground: Kelly Bushing: |
| ☐ Gas ☐ DH ☐ EOR | Total Vertical Depth: Plug Back Total Depth: |
| ☐ OG ☐ GSW | Amount of Surface Pipe Set and Cemented at: Feet |
| CM (Coal Bed Methane) | Multiple Stage Cementing Collar Used? Yes No |
| Cathodic Other (Core, Expl., etc.): | |
| If Workover/Re-entry: Old Well Info as follows: | If yes, show depth set: Feet |
| Operator: | If Alternate II completion, cement circulated from: |
| Well Name: | feet depth to: sx cmt. |
| Original Comp. Date: Original Total Depth: | |
| ☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD | Drilling Fluid Management Plan |
| ☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer | (Data must be collected from the Reserve Pit) |
| Commingled Permit #: | Chloride content:ppm Fluid volume:bbls |
| Dual Completion Permit #: | Dewatering method used: |
| SWD Permit #: | Location of fluid disposal if hauled offsite: |
| EOR Permit #: | Location of fluid disposal if fladica offsite. |
| GSW Permit #: | Operator Name: |
| _ | Lease Name: License #: |
| Spud Date or Date Reached TD Completion Date or | QuarterSecTwpS. R East West |
| Recompletion Date Recompletion Date | County: Permit #: |

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

| KCC Office Use ONLY | | | | | |
|---|--|--|--|--|--|
| Confidentiality Requested | | | | | |
| Date: | | | | | |
| Confidential Release Date: | | | | | |
| Wireline Log Received Drill Stem Tests Received | | | | | |
| Geologist Report / Mud Logs Received | | | | | |
| UIC Distribution | | | | | |
| ALT I II Approved by: Date: | | | | | |

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Page Two

| Operator Name: _ | | | | Lease Name: | | | Well #: | |
|--|---------------------|-----------------------|--------------------------------|-----------------------|----------------------|---|---|--|
| Sec Twp. | S. R. | E | ast West | County: | | | | |
| | flowing and shu | ut-in pressures, v | vhether shut-in pre | ssure reached st | atic level, hydrosta | tic pressures, bot | | val tested, time tool erature, fluid recovery, |
| Final Radioactivity files must be subm | | | | | | iled to kcc-well-lo | gs@kcc.ks.gov | v. Digital electronic log |
| Drill Stem Tests Ta | | | Yes No | | | on (Top), Depth ar | | Sample |
| Samples Sent to 0 | Geological Surv | /ey | Yes No | Na | me | | Тор | Datum |
| Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru | _ | | Yes No Yes No Yes No | | | | | |
| | | B | CASING eport all strings set-c | | New Used | ion, etc. | | |
| Purpose of Strir | | Hole illed | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | | |
| | | | | | | | | |
| | | | ADDITIONAL | CEMENTING / SO | UEEZE RECORD | | | |
| Purpose: | | epth T Bottom | ype of Cement | # Sacks Used | | Type and F | Percent Additives | |
| Perforate Protect Casi Plug Back T | | | | | | | | |
| Plug Off Zor | | | | | | | | |
| Did you perform a Does the volume Was the hydraulic | of the total base f | fluid of the hydrauli | | _ | = | No (If No, sk | ip questions 2 an ip question 3) out Page Three | , |
| Date of first Product Injection: | tion/Injection or R | esumed Production | Producing Meth | nod: | Gas Lift 0 | Other (Explain) | | |
| Estimated Production Per 24 Hours | on | Oil Bbls. | | | | | Gas-Oil Ratio | Gravity |
| DISPOS | SITION OF GAS: | | N | METHOD OF COMP | LETION: | | | DN INTERVAL: Bottom |
| | Sold Used | I on Lease | Open Hole | | | mmingled mit ACO-4) | Тор | BOROTT |
| , | , | | | B.11 B1 | | | | |
| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, | Fracture, Shot, Cer (Amount and Kind | menting Squeeze I of Material Used) | Record |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| TUBING RECORD: | : Size: | Set | Δ+- | Packer At: | | | | |
| TODING RECORD: | . 3126. | Set | n. | i donei Al. | | | | |

| Form | ACO1 - Well Completion | | | |
|-----------|------------------------|--|--|--|
| Operator | Raney Oil Company, LLC | | | |
| Well Name | JONES 1A | | | |
| Doc ID | 1517361 | | | |

All Electric Logs Run

| comp. density | |
|----------------|--|
| sonic | |
| dual induction | |
| micro | |

| Form | ACO1 - Well Completion | | | |
|-----------|------------------------|--|--|--|
| Operator | Raney Oil Company, LLC | | | |
| Well Name | JONES 1A | | | |
| Doc ID | 1517361 | | | |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | " | Number of Sacks Used | Type and Percent Additives |
|----------------------|----------------------|-----------------------|--------|------------------|-----------|----------------------------|----------------------------------|
| Surface | 12.25 | 8.625 | 24 | 306 | Class A | 200 | 3%cal 2%gel |
| Production | 7.875 | 5.5 | 17 | 3454 | Thick set | 220 | 3% gel |
| | | | | | | | |
| | | | | | | | |

From: Ann Raney annraney@icloud.com @ |

Subject: Raney Jones #1A Geo Report Date: May 19, 2020 at 11:06 PM To: Ann Raney annraney@me.com



ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

From: Roger Martin rmrockhand@gmail.com @

Subject: Pray#3 geo-log/report & invoice Date: February 24, 2020 at 6:50 PM

To: Thomas Raney annraney@me.com, Ann Raney annraney@mac.com, Jeff Plummer Jeff.Plummer@18cg.com, Scott Asner

asner1@swbell.net

Cc: Roger Martin rogermartingeo@yahoo.com

Please find attached. Thanks Roger Martin 316-833-2722 (iPhone/voice/text 316-250-6970 (office/field/voice 316-655-1227 (voice/text

ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

| ELEVATIONS |
|--|
| KB 1271' GL 1263' Measurements Are All From KB:1271' API 15-035-24711-0000 |
| CASING SURFACE 8.8.5/8"×23#(295.15')@305'KB cmt'd w/ 200sx Class A+ (see Chrono) PRODUCTION 5.8.1/2"×17#@~3549+'KB cmt'd w/ 220sx (see REMARKS) |
| |

| FORMATION TOPS | LOG | SAMPLES | CHRONOLOGY |
|---------------------|---------------|---------------|---|
| | | | 12/14/19; MIRU; Spud@12;00am; Drlg@125@6:30am |
| HEEBNER SH | 1503' (-232) | 1504' (-233) | Drilled to 305'; Dev.Survey: 1/2deg.@305' |
| IATAN | 1802' (-531) | 1804' (-533) | Ran 7 jts mew 8&5/8"x 23# (tally=295.15') set@~305'KB |
| STALNAKER SS | 1869' (-598) | 1867' (-596) | (strapped 1st 3jts & welded all collars) cmt'd w/ 200sx |
| | | | class A +3%CaCl +2%gel; cmt did circ; PD@4:45pm on |
| Upper LAYTON SS | 2285' (-1014) | 2289' (-1018) | 12/14/19; by ELITE; Ticket # 4866 |
| LAYTON SS | 2304' (-1033) | 2303' (-1032) | |
| | | | 12/15/19; Drlg @ 544' @~6:45am |
| KANSAS CITY | 2434' (-1163) | 2430' (-1159) | 1 |
| DODDS CREEK SS | 2445' (-1174) | 2446' (-1175) | 12/16/19; Drlg @ 1615' @~6:45am |
| DENNIS LS | 2501' (-1230) | 2503' (-1232) | <u> </u> |
| SWOPE LS | 2523' (-1252) | 2525' (-1254) | 12/17/19; Drlg @~2300' |
| HERTHA LS | 2579' (-1308) | 2579' (-1308) | |
| B/KC | 2594' (-1123) | 2595' (-1124) | 12/18/19; Drlg @~2900' |
| HEPLER/CLEVELAND SS | 2608' (-1337) | 2610' (-1339) | 1 |
| MARMATON | 2675' (-1404) | 2676' (-1405) | 12/19/19; Drlg @~3100'; DST#1@3208' |
| ALTAMONT LS | 2699' (-1428) | 2700' (-1429) | <u> </u> |
| PAWNEE LS | 2739' (-1468) | 2740' (-1469) | 12/20/19; Drlg @~3300' |
| FORT SCOTT LS | 2780' (-1509) | 2779' (-1508) | |
| | | | |

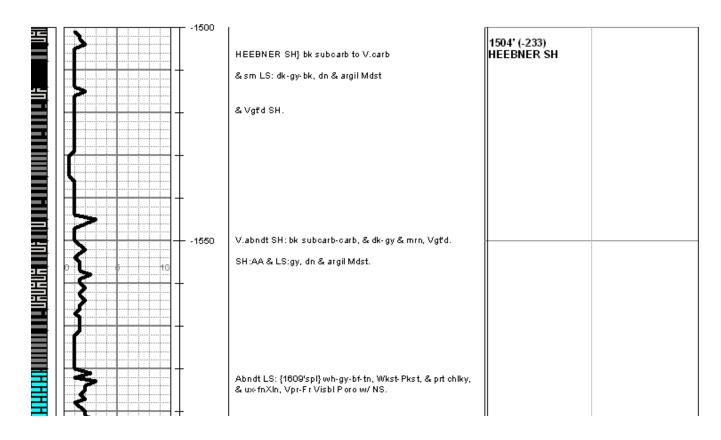
| CHEROKEE GRP/SH | 2813' (-1542) | 2813' (-1542) | 12/21/19; DST#2 @ 3500' |
|-------------------------|---------------|---------------|---|
| | | | |
| EROSIONAL MISS. | 3065' (-1794) | 3065' (-1794) | 12/22/19; E-Logging @ RTD:3550' LTD:3551' |
| MISSISSIPPIAN | 3069' (-1798) | 3071' (-1800) | Ran 87jts of new 5&1/2"×17#/ft csg; tally=3541.93" + |
| MISS.CHERT POROSITY | 3071' (-1800) | 3071' (-1800) | 9.31 landing jt = 3551.24 +~2' basket shoe & float collar |
| MISS. LS | 3080' (-1809) | 3081' (-1810) | =~3553' Total tally; tagged btm @~3551' - picked up |
| COWLEY FACIES/FORMATION | 3204' (-1933) | 3208' (-1937) | ~1&1/2ft off btm; set shoe @~900psi; cmt'd w/ 220sx |
| | | | Thick Set (see Remarks) displaced w/~84 bbls; final |
| KINDERHOOK SH | 3484' (-2213) | 3486' (-2215) | pump pres=~1100psi & bump plug to ~1650 psi - held |
| CHATT./WOODFORD SH | 3504' (-2233) | 3503' (-2232) | (good circ & lift pressure) by ELITE; Ticket # 4932 |
| | | | PD@~4:45am on12/23/2019; jet; set slips, dump & |
| ARBUCKLE | 3539' (-2268) | 3539' (-2268) | clean pits. Rig release @~6:45AM on 12/23/2019. |
| TOTAL DEPTH (LTD/RTD) | 3551' (-2280) | 3550' (-2279) | |
| | | | |

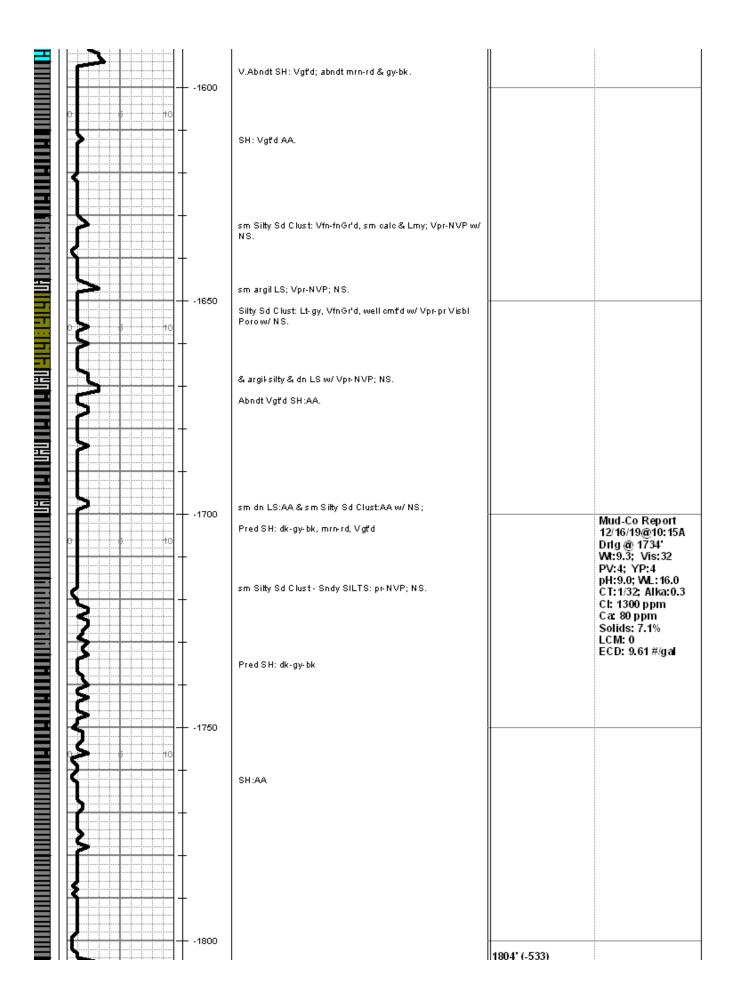
| REMARKS: - | FOR A COMPLETION IN THE UPPER MISSISSIPPIAN SYSTEM; RAN 87 JOINTS OF |
|--------------|---|
| ILLIIAIKS. = | NEW 5&1/2" × 17#/FT PRODUCTION CASING; TALLY=3541.93' +2' BASKET SHOE & |
| | FLOAT COLLAR =~3543.93' + 9.31' LANDING JOINT =~ 3553' TOTAL; TAGGED BTM |
| | @~3551', PICKED UP ~1&1/2 FT & SET BASKET SHOE PACKER@~3549'+@~900 PSI |
| | PUMP 15 BBL FRESH WATER PRE-FLUSH: MIX & PUMP 220 SX THICK SET CEMENT |
| | + 2# PHENOSEAL/SK + 1/4% CFL; 13.8#; \W/ 1.63 YIELD; ~63.5 BBL SLURRY. |
| | DISPLACE W/ 84 BBLS (1ST 40 BBLS KCL CITY WATER) FINAL PUMP PRESSURE= |
| | ~1100 PSI & BUMPED PLUG TO 1650 PSI; FLOAT HELD; GOOD CIRC & LIFT PRESSURE |
| | @~40 BBLS OUT. JOB BY ELITE CEMENTING & ACID SERVICE, LLC; TICKET # 4932. |
| | RAN 10 CENTRALIZERS: ON COLLARS OF JT#3 @~3422' & JT#5@3335' & JT#7 @~3250' |
| | &JT#9@3165' &JT#11@~3085' &JT#18@~2799' &JT#20@~2720'&JT#25@~2514' |
| | & JT#28@~2390' & JT#31@~2317'. |
| | BASKETS ON JTS #4@-3420' & JT#9@-3210' & JT#32@-2315' |
| | |
| | I RECOMMEND REVIEW OF THE UPPER LAYTON SANDSTONE & THE MARMATON |
| | GROUP BEFORE ABANDONMENT. |
| | |
| | REPECTFULLY SUBMITTED, |
| | ROGER L MARTIN, WELLSITE GEOLOGIST |
| | |

SCROSTY TREITHE LINE

SAMPLE DESCRIPTION

REMARKS

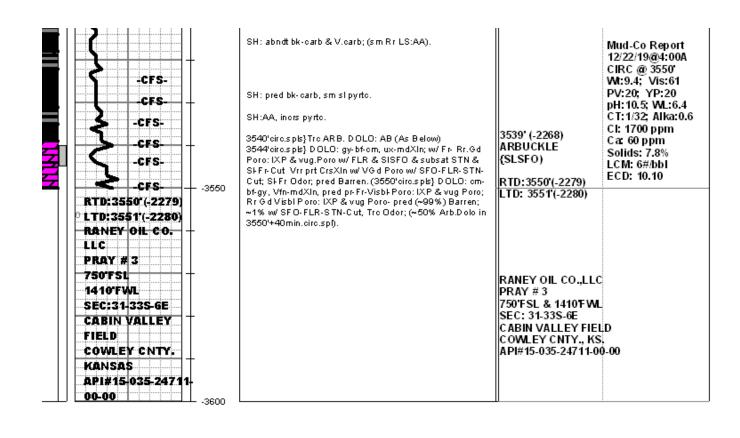




| ≡ ∣⊨∋ | - | + | | |
|-------------------------------|---------------------|----------|---|----------------------------|
| | | | SH: AA. | |
| | | | Sh. AA. | |
| | | + | | |
| | | | | 2676' (-1405) |
| | | | MARDMATONI I C t William Divet Such abbut Ci | MARMATON |
| | - | + | MARMATON}LS: cm-tn-gy, Wkst-Pkst & wh-chky; SI Cherty; pr-NVP w/ NS. | |
| | | | oneny, p. 1177 W. 119. | |
| 4 | | | LS: gy-tn-wh, dn-ux-fnX; sm argil; Vpr-NVP; NS. | |
| | | ↓ | | |
| | | | SH: gy & bk-carb; & LS:AA, argil. | |
| | | | | |
| 45 | | -2700 | | 2700' (-1429) |
| | | -2100 | | ALTAMONT |
| | | | oolc; XIn & Pkst w/ Fr Poro to Trc Gd.Poro: fos-vug, moldc & IXP; Vrr FLR & Lt-tn-bn-OSTN; Trc SFO & milky | (Trc SFO) |
| 4 | | | Cut, pred Barren w/pr-NVP; &sm argil LS. | |
| | | Ť l | | |
| | | | 10.00 | |
| | 5 | | LS: AA, sm argil; | |
| 鼂 │ │ │ | | † | | |
| | | | & SH: bk subcarb to V.carb. | |
| | | | | |
| ■ | ******** | † | SH:AA; sm calc & Lmy | |
| | | | | |
| | | | | 27401 / 4460 |
| ⋤ │ │ 2 | - | + | | 2740' (-1469) PAWNEE |
| | | | | PAVVICE |
| | 2 | | PAWNEE} LS: tn-gy-wh, ux-fnXln, & Wkst-Pkst, prt chlky, | |
| | | -2750 | w/ pr-Fr Poro: pp & IGr & IXP; Tre molde Poro; Tre FLR- | |
| = f | | | SFO-STN & Cut, pred Barren. | (Trc SFO) |
| - | | | | |
| | | 1 | | |
| | | | SH: bk-carb & subcarb. | |
| | | | | |
| | | 1 | LS: tn-gy-wh, pred dn- ux, & argril- Mdst. | |
| | | | SH: bk-carb & dk-gy- sm calc & Lmy. | |
| | | | | |
| ਡ ੈ ਾਂਪ | | 1 | | 2779' (-1508) FT. SCOTT |
| | | | | ri.scori |
| | | | FT.SCOTT} LS: wh-chky & tn-gy-dn-ux-fnXln-sm 2nd | |
| | | | ReX; sm Wkst-Pkst; SI Cherty; sm pr-Fr-IGr & pp & IXP; | (VSL-SLSFO) |
| | | T I | ~5% w/sptd-subsat-FLR & VSI-SISFO & VLt-OSTN & SI- milky-Cut, VSI Odor. | |
| | | | miky out, vor out. | |
| | G | | | |
| | DST#1 | 2800 | | |
| | | | SH: bk-subcarb to V.carb. | |
| | | | Sapanto v. vallo. | |
| | | | | 2813' (-1542) |
| | | | LS:AA; tn-gy-wh, dn- ux & argil Mdst. | CHEROKEE |
| | | | | |
| | | | CHEROKEE} SH: bk-carb- V.carb; Tro Coal; & SH:gy. | |
| | | | SH-SILTS: Vgťd, sm calo: sndy; (abndt LS:AA). | |
| | | | | |
| | | T | AA; sI incrs SH:AA. | |
| | | | | |
| | | | | |
| | | | | |
| | | | SH: gy & bk-carb; & SILTS:AA. | |
| | | | 97 | |
| | | 2850 | Sharp ;inors in SH & SILTS: AA. | |
| | | | | |
| | 10 | | | |
| | | ┞ | | |
| | | | SH-SILTS: AA; (Tro Sd Clust:AA; NS & sm LS:AA). | |
| | | | | |
| ≡∣⊢f | | ┡ | | |
| | | - ' | | |

| | 2800 3 - 10 | SH: pred gy & bk-carb. & LS: dk-gy-bk, ux & argil Mdst SH: bk-carb- V.carb. SILTS-SH: Lt-dk-gy, micac SH: pred dk-gy - bk-carb; sm LS: dn-chky. | | |
|--|----------------------------------|--|---|--|
| | 2950 2950 2950 | SH: AA; sm dn & argil LS; Vrr Sd Clust:AA; NS. SH: abndt gy & bk-carb, sm pyrto; & sm LS. SH: dk-Lt-gy sm bk-carb SH. | -TOH 3 stands to | Mud-Co Report 12/18/19@11:30A Drlg @ 2958' (corrected depth) Wt:9.5+; Vis:47 PV:15; YP:15 pH:10.5; WL:7.2 CT:1/32; Alka:1.0 CI: 1500 ppm Ca: 60 ppm Solids: 8.5% LCM: 1#/bbl ECD: NC |
| | WOR-Stuck in hole Spot u40803000 | Pred SH: dk-gy-bk & Vgt'd Vrr Coal; sm pyrto; sm LS:argil-Mdst. | Work on rig- Stuck in hole spot'd 40 bbls oil- pulled loose after ~4hrs then circ & TIH 3 stnds, then back to drlg. | Eco. No |
| <u> </u> | 5 10 | Pred SH: Vg#d, sm mrn-rd. | | |
| | | SH: Pred bk-carb & dk-gy. | | |
| | DST#13050 | SH: Vgtd - mrn-rd & gy. | | |
| | b - 1 b 10 | sm bk-carb SH. | | |
| 3 | | SH: V-gt'd-gy & bk-carb, mrn-wxy; & sm dn-LS & argil-LS; & Trosharp Chert. | 3071'(-1800) | |
| , ४, ४, ४, ४, ४, ४, ४, ४, ४, ४, ४, ४, ४, | | CHERT: wh-bf-gy, sm w/th-O.STN; pred sharp & prthy Wthr'd sub.Tripolc; ~30% Wthr'd-Tripolc w/Fr-Gd Poro: pin point {pp) & vug & Inter-Granular {IGr) - Tripolc Poro w/spt'd to sat.FLR & th-O.STN w/Fr-Gd SFO-Gsy, SI to Gd milky Cut; Frhy Strong Odor. | MISS.CHERT PORO. (Fr-Gd SFO) 3081'(-1810) MISS. LS | DST#1; MISS. 2800'3208' 30-45-60-90min. IF: Wk blow; bldg to 3": ISI: NBB. |

| 3100 3100 | LS: wh-chlky, & cm-bf, sub-chlky- Wkst-Pkst; & ux-fnX; Cherty; w/ V.rare(Vrr) pr Visbl Poro: pp-vug & u-lGr.Poro & u-Frad's Tro Fr Visbl.Poro; <5% w/spt'd-subsat FLR & Lt.O.STN & VSLSFO & Cut, VSL Odor on bik; Tro Gd Visbl Poro w/ FLR-SFO-STN-Cut; (sm Chert:AA) (sm SH cavings). | (VSLSFO) | FF: Wk blow; bldg to 1"; FSI:NBB. Rec: 100'Drlg Mud Tool SpI: Trc of OCM/Trc.Show Oil IHP: 1489 IFP: 24-39 ISIP: 529 |
|--------------|--|-------------------------------------|--|
| | LS: wh-chlky & subchky; & cm-bf-th & gy, Wkst-Pkst; & ux-fnX; Cherty (AA) s1 incrs pr-Fr-Visb1 Poro-AA~5% <10% w/spt'd FLR & Lt-tn-O.STN & VSLSFO & milky Cut, Tro Odor on brk; Cherty: AA; (Abndt SH cavings). | (VSLSFO) | FFP: 4159 FSIP: 488 FHP: 1382 Temp: 104deg.F. |
| | LS: wh-bf-tn-gy, sm mot- Wkst-Pkst, prt chlky; sm fos & ool, Cherty- sm ool & fos Chert, sharp & sl Wthr'd; sm Pr Visbl Poro: pp-vug & lGr.Poro & u-Frad's; <5% w/ spt"d | (VSLSFO) | |
| 3150 | FLR-VSLSFO & Cut, Tre O.STN; Tre Odor on brk. | (VSLSF0) | Mud-Co Report |
| D 10 | LS: wh-chlky, & bf-tn-gy, Wkst-Pkst, ux-fnX; <5% w/pr-Fr Poro: pp-vug, IGr, u-Frac's w/ Trc SFO-FLR-STN-Cut; Cherty:AA; <5% w/pr-Fr Poro w/spt'd-subsat FLR-SFO- STN-Cut, Vsl Odor on brk. | (VSLSFO) | 12/19/19@11:00A CIRC @ 3208' (corrected depth) Wt:9.4+; Vis:56 PV:22; YP:20 |
| | | (VSLSF0) | pH:10.5; WL:6.4 CT:1/32; Alka:0.8 Cl: 1900 ppm Ca: 80 ppm Solids: 7.7% LCM: 4#/bbl |
| | LS: wh-gy-tn, sm mot-Wkst-Pkst, prt ohky, & Cherty; <5% w/ pr-Fr Poro: pp-vug, IGr.Poro & u-Frad's w/ FLR- SFO-STN & Vsl Cut. | (VSLSFO) | ECD: NC |
| 3200 | LS: AA w/ Tro SFO-FLR-STN-Cut; & Abndt dn Mdst-Wkst w/ Vpr-NVP w/ NS. COWLEY} LS: dk-md-gy-bn, dn-ux & Mdst-Wkst, sm silic, | (Trc SF0) 3208'(-1937) COWLEY | |
| | sm sIdolomo & argil; si Cherty; pred Vpr-NVP; Trou- Frads & Edg w/FLR & TroSFO & Cut. | (Trc SFO) | |
| | LS: dk-Lt-gy & gy-bn, pred dn- ux-VfnXln, sm sl dolomo, sm sl silic, & argil-Mdst; pred Vpr-NVP; Trc Vpr Visbl Poro & u-Frad's & Edg w/ FLR- Trc SFO & Trc Cut; Sl Cherty:cm-gy-bf, wh, sharp to sl Wthr'd- Trc Vpr Visbl Poro- u-Frad's & Edg w/ FLR- Trc SFO & Trc Cut (sm SH cavings). | (Trc SFO) | |
| 3250 | LS: Pred dk-gy-bn, dn- ux; & Mdst-smshly- argil, smsilic, smsl dolomc, Trc Vpr Visbl Poro: pin point (pp) & u- smsld & u-IXP & Edges w/ FLR & Trc SFO & Trc resid.Cut; >99% Barren w/ Vpr-NVP (deors in SH cavings). | (Trc SFO) | DST#2; Lwr.MISS 3208'3500' 30-45-45-90min. IF: Wk blow, bldg to 2". ISI: NBB. FF: No Blow FSI: NBB. Rec: 30'Drlg.Mud IHP: 1596 IFP: 26-31 ISIP: 657 FFP: 3233 FSIP: 219 FHP: 1550 Temp: 110deg.F. |



ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

| COMPANY RANEY OIL COMPANY, LLC LEASE PRAY #3 FIELD CABIN VALLEY LOCATION 750' FSL & 1410' FWL ("SW-NW-SE-SW/4) SECTION 31 TOWNSHIP 33S RANGE 6E COUNTY COWLEY STATE KANSAS | ELEVATIONS KB 1271' GL 1263' Measurements Are All From KB:1271' API 15-035-24711-0000 |
|---|--|
| CONTRACTOR DUKE DRLG RIG #2 SPUD 12/14/2019 COMP 12/23/2019 STD 3550' (-2279) LTD 3551' (-2280) | CASING SURFACE 885/8"×23#(295.15')@305'KB cmt'd w/ 200sx Class A+ (see Chrono) |

KID AAAA Y TELAY LID AAAA Y TELAA

ELECTRICAL SURVEYS ELI: DIL + CNL/CDL/PE; & SONIC + MEL

2 DST by TRILOBITE TESTING

PRODUCTION 581/2"×17#@~3549+'KB

cmt'd w/ 220sx (see REMARKS)

| FORMATION TOPS | LOG | SAMPLES | CHRONOLOGY |
|--|---------------------------------|--|--|
| | | A Company of the Comp | 12/14/19; MIRU; Spud@12;00am; Drlg@125@6:30am |
| HEEBNER SH | 1503' (-232) | 1504' (-233) | Drilled to 305'; Dev.Survey: 1/2deg.@ 305' |
| IATAN | 1802' (-531) | 1804' (-533) | Ran 7jts mew 8&5/8"x 23# (tally=295.15') set@~305'KB |
| STALNAKER SS | 1869' (-598) | 1867' (-596) | (strapped 1st 3jts & welded all collars) cmt'd w/ 200sx |
| | W. C. Company and C. C. Company | A Kanada sanaran | class A +3%CaCl +2%gel; cmt did circ; PD@4:45pm on |
| Upper LAYTON SS | 2285' (-1014) | 2289' (-1018) | 12/14/19; by ELITE; Ticket # 4866 |
| LAYTON SS | 2304' (-1033) | 2303' (-1032) | 9550 (ACACO - 1005 - 1005 CANON AND MAIN CONT.) |
| 300 Well 35 (1000) 1 150 | | | 12/15/19; Drlg @ 544' @~6:45am |
| KANSAS CITY | 2434' (-1163) | 2430' (-1159) | (00.00 (40.00.00) - + 0.00 - 0.0 (00.00 (40.00 - + 0.00.00) |
| DODDS CREEK SS | 2445' (-1174) | 2446' (-1175) | 12/16/19; Drlg @ 1615' @~6:45am |
| DENNIS LS | 2501' (-1230) | 2503' (-1232) | |
| SWOPE LS | 2523' (-1252) | 2525' (-1254) | 12/17/19; Drlg @~2300' |
| HERTHA LS | 2579' (-1308) | 2579' (-1308) | 9000 (ACC000) - 1000 - 1000 (ACC000) |
| B/KC | 2594' (-1123) | 2595' (-1124) | 12/18/19; Drlg @~2900' |
| HEPLER/CLEVELAND SS | 2608' (-1337) | 2610' (-1339) | With the Park Annual State Sta |
| MARMATON | 2675' (-1404) | 2676' (-1405) | 12/19/19; Drlg @~3100'; DST#1@3208' |
| ALTAMONT LS | 2699' (-1428) | 2700' (-1429) | 0.000 mg 0.0 |
| PAWNEE LS | 2739' (-1468) | 2740' (-1469) | 12/20/19; Drlg @~3300' |
| FORT SCOTT LS | 2780' (-1509) | 2779' (-1508) | An American Maria San Anna Caracter Car |
| CHEROKEE GRP/SH | 2813' (-1542) | 2813' (-1542) | 12/21/19; DST#2 @ 3500' |
| EROSIONAL MISS. | 3065' (-1794) | 3065' (-1794) | 12/22/19; E-Logging @ RTD:3550' LTD:3551' |
| MISSISSIPPIAN | 3069' (-1798) | 3071' (-1800) | Ran 87jts of new 5&1/2"×17#/ft csg; tally=3541.93" + |
| MISS.CHERT POROSITY | 3071' (-1800) | 3071' (-1800) | 9.31 landing jt = 3551.24 +~2' basket shoe & float collar |
| MISS, LS | 3080' (-1809) | 3081' (-1810) | =~3553' Total tally; tagged btm @~3551' - picked up |
| COWLEY FACIES/FORMATION | 3204' (-1933) | 3208' (-1937) | ~1&1/2ft off btm; set shoe @~900psi; cmt'd w/ 220sx |
| SSS SECTION OF THE SECTION OF THE SECTION S | E Company | 5 Same and a second | Thick Set (see Remarks) displaced w/~84 bbls; final |
| KINDERHOOK SH | 3484' (-2213) | 3486' (-2215) | pump pres=~1100psi & bump plug to ~1650 psi - held |
| CHATT./WOODFORD SH | 3504' (-2233) | 3503' (-2232) | (good circ & lift pressure) by ELITE; Ticket # 4932 |
| 6000 ACC N 16 12 12 12 12 12 12 12 12 12 12 12 12 12 | | o companyotersoners | PD@~4:45am on12/23/2019; jet; set slips, dump & |
| ARBUCKLE | 3539' (-2268) | 3539' (-2268) | clean pits. Rig release @~6:45AM on 12/23/2019. |
| TOTAL DEPTH (LTD/RTD) | 3551' (-2280) | 3550' (-2279) | |

| REMARKS: | FOR A COMPLETION IN THE UPPER MISSISSIPPIAN SYSTEM; RAN 87 JOINTS OF |
|------------|--|
| TEMAITING. | NEW 5&1/2" x 17#/FT PRODUCTION CASING; TALLY=3541.93' +~2' BASKET SHOE & |
| | FLOAT COLLAR =~3543.93' + 9.31' LANDING JOINT =~ 3553' TOTAL; TAGGED BTM |
| | @~3551', PICKED UP ~1&1/2 FT & SET BASKET SHOE PACKER@~3549'+@~900 PSI |
| | PUMP 15 BBL FRESH WATER PRE-FLUSH: MIX & PUMP 220 SX THICK SET CEMENT |
| | + 2# PHENOSEAL/SK + 1/4% CFL; 13.8#; W/ 1.63 YIELD; ~63.5 BBL SLURRY. |
| | DISPLACE W/ 84 BBLS (1ST 40 BBLS KCL CITY WATER) FINAL PUMP PRESSURE= |
| | ~1100 PSI & BUMPED PLUG TO 1650 PSI; FLOAT HELD; GOOD CIRC & LIFT PRESSURE |
| | @~40 BBLS OUT. JOB BY ELITE CEMENTING & ACID SERVICE, LLC; TICKET # 4932. |
| | RAN 10 CENTRALIZERS: ON COLLARS OF JT#3 @~3422' & JT#5@3335' & JT#7@~3250' |
| | &JT#9@3165' &JT#11@~3085' &JT#18@~2799' &JT#20@~2720'&JT#25@~2514' |
| | &JT#28@~2390' &JT#31@~2317'. |
| | BASKETS ON JTS #4@-3420' & JT#9@-3210' & JT#32@-2315' |
| | I RECOMMEND REVIEW OF THE UPPER LAYTON SANDSTONE & THE MARMATON |
| | GROUP BEFORE ABANDONMENT. |
| | REPECTFULLY SUBMITTED, |
| | ROGER L MARTIN, WELLSITE GEOLOGIST |

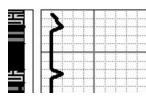
POROSITY SHILING TIME

45

-1500

SAMPLE DESCRIPTION

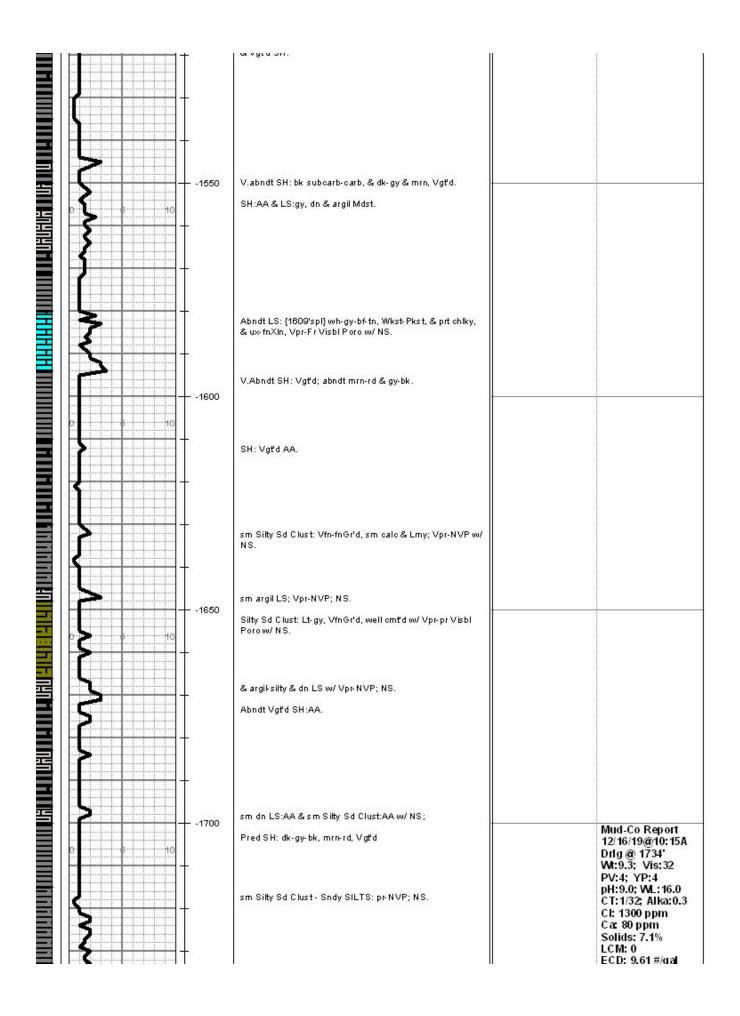
REMARKS

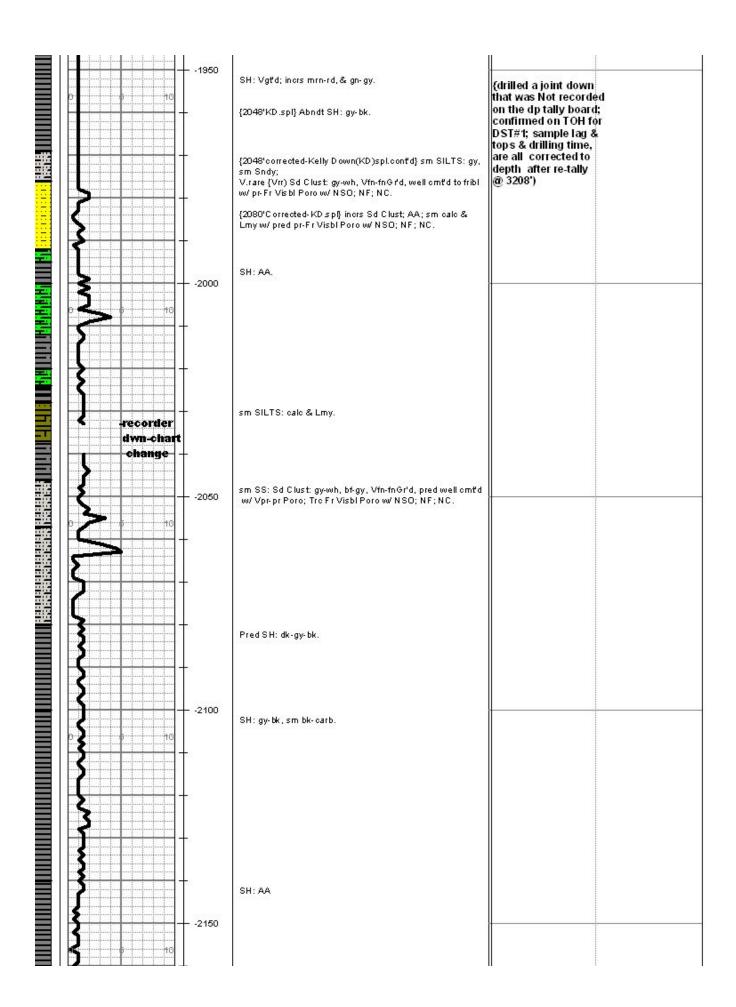


HEEBNER SH} bk subcarb to V.carb & sm LS: dk-gy-bk, dn & argil Mdst

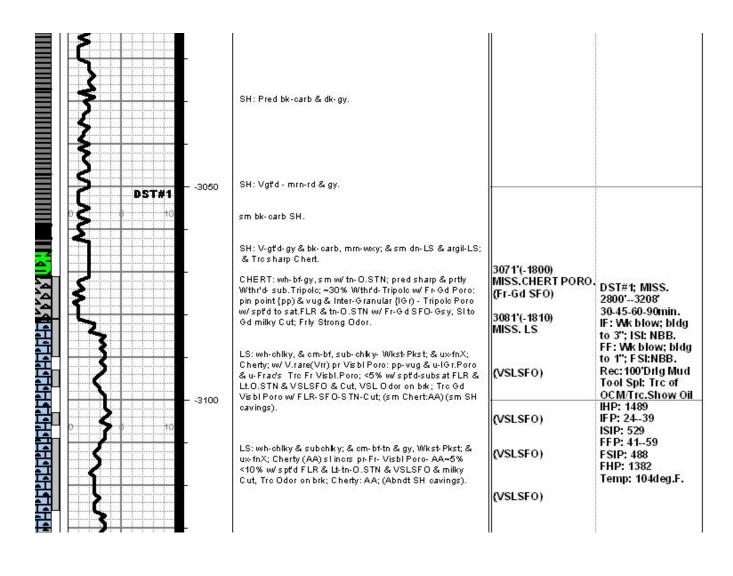
2) (A#A CU

1504' (-233) HEEBNER SH





| ■ DST#1■ | | II | I |
|--------------------|--|---|--|
| | SH: bk-subcarb to V.carb. | | |
| | LS:AA; tn-gy-wh, dn- ux & argil Mdst. | 2813' (-1542) CHEROKEE | |
| | CHEROKEE} SH: bk-carb- V.carb; Tro Coal; & SH:gy. | | |
| | SH-SILTS: Vgt'd, sm calo-sndy; (abndt LS:AA). | | |
| | AA; sI incrs SH:AA. | | |
| | | | |
| | | | |
| | SH: gy & bk-carb; & SILTS:AA. | | |
| 2850 | Sharp ;inors in SH & SILTS: AA. | | 1 |
| | 8 | | |
| | | | |
| | SH-SILTS: AA; (Tro Sd Clust:AA; NS & s m LS:AA). | | |
| | | | |
| | | | |
| | SH: pred gy & bk-carb. & LS: dk-gy-bk, ux & argil Mdst | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | SH: bk-carb- V.carb. | | |
| | SILTS-SH: Lt-dk-gy, micae | | |
| | | | |
| | 011 | | |
| | SH: pred dk-gy - bk-carb; sm LS: dn-chky. | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | SH: AA; sm dn & argil LS; Vrr Sd Clust:AA; NS. | | |
| 2950 | | | Mud-Co Report |
| 9 9 4 40 | SH: abndt gy & bk-carb, sm pyrto; & sm LS. | | 12/18/19@11:30A Drig @ 2958' |
| | | | (corrected depth) Wt:9.5+; Vis:47 |
| | SH: dk-Lt-gy | | PV:15; YP:15 |
| | | | pH: 10.5; WL: 7.2 CT: 1/32; Alka: 1.0 |
| | | | Cl: 1500 ppm Ca: 60 ppm |
| | sm bk-carb SH. | -TOH 3 stands to | Solids: 8.5% LCM: 1#/bbl |
| TOH3stnd Wor-Stuck | Pred SH: dk-gy-bk & Vgtd | Work on rig- | ECD: NC |
| in hole | 1100 Str. dr. gy- un de vigt d | Stuck in hole spot'd 40 bbls oil- | |
| Spot d40B0 | | pulled loose after ~4hrs then circ & | |
| 3000 | | TIH 3 stnds, then back to drig. | |
| | Vrr Coal; sm pyrto; sm LS:argil-Mdst. | Dack to ung. | |
| | Pred SH: Vgtd, sm mrn-rd. | | |
| | to the survey of survey and the survey of th | II | I |



810 E 7TH PO Box 92 EUREKA, KS 67045 (620) 583-5561

Authorization



Cement or Acid Field Report
Ticket No. 4882

Foreman David Gardner

Total

CEMENTING & ACID SETTION

| Date | 5-035-24 | | | | | | | |
|--|---|--|-------------------|------------|----------------------|--|---|-------|
| | Cust. ID # | Lease & Well Number | Section | Township | Range | Count | y 5 | State |
| 1-110- | 20 13/15 | - The state of the | 31 | 33 S. | 6 E. | Cowle | V | 45 |
| ustomer | 0 (| Safety | Unit# | Dri | ver | Unit# | Driv | er |
| ailing Add | A cherc | Meeting D 6 | 105 | Ja: Jo: | | | | |
| alling Add | iress and Dos | endood St. Ste 100 37 | 410 | -30: | > 11 | | | |
| ity | 412 900 | State Zip Code | | | | | | |
| | wgod | KS 66211 | | ~~~ | | | | |
| b Type . | Surface | Hole Depth305 ' K.B. | Slurry Vol. | 48 861 | Tub | oing | | |
| sina De | oth_294.85 | 6.4. Hole Size /2/4" | Slurry Wt | 15# | Dril | Il Pipe | | |
| sing Siz | e & Wt. <u>8 %</u> | 24 Cement Left in Casing 15 + | , Water Gal/SK | 6.5 | Oth | ner | | |
| placem | ent <u>/81/4</u> L | | Bump Plug to | | | М | | |
| marks: | Safety 1 | neeting. Rig up to 85/8" cas | ing. Brec | k circu | lation o | w/ 10 1 | Bbl fre | 54 |
| vater. | Mixed | 200 SKS Class A Cement | w/ 3% | Caclz, 29 | 10 Gel, | 1/4 # F | loseal/s | 1 |
| 0 15 | #/901/ Vie | 1d 1.35 = 48 Bb1 sturry. D | sisplace o | W/ 181/4 | BbI f | resh wa | ter. Sh | iut |
| OWN. | Close c | asing in Good circulation @ | all time | s while | cement | ing. 600 | d ceme | at |
| eturr | s to sur | face = 8 Bbl slurry to pit.] | Sob come | lete. Ris | dousa. | 7 | Territoria de la companio de la comp | |
| | | | , | | | | | |
| | | | | | | | | |
| Code | Oty or Units | Description of Product or Services | | | T Unit D | rico | Total | |
| | Qty or Units | Description of Product or Services Pump Charge | | | Unit P | | Total 890 | 20 |
| 101 | / | Pump Charge | | | 890 | 0.00 | 890. | - |
| 101 | | The state of the s | | | 890 | | | - |
| 101 | 60 | Pump Charge Mileage | | | 890 4 | 0.00 | 890. 252. | 20 |
| 101 107 200 | 1 60 200 sks | Pump Charge Mileage Class A' Cement | | | 890 4 | 0.00 1.20 | 890. 252.0 3150.0 | 20 |
| 101 107 200 205 | 1 60 200 sks 565# | Pump Charge Mileage Class H' Cement Caclz 3% | | | 890 4 | 0.00 1.20 .75 | 890. 252.0 3150.0 355.9 | 00 |
| 101 107 200 205 206 | 1 60 200 sks 565# 375# | Pump Charge Mileage Class A' Cement Caclz 3% Gel 2% | | | 890 4 15 | 0.00 1.20 .75 .63 | 890. 252.0 3150.0 355.9 78.7 | 00 |
| 101 107 200 205 206 | 1 60 200 sks 565# | Pump Charge Mileage Class H' Cement Caclz 3% | | | 890 4 15 | 0.00 1.20 .75 | 890. 252.0 3150.0 355.9 | 00 |
| 200 205 206 209 | 1 60 200 SKS 565# 375# 50# | Pump Charge Mileage Class A' Cement Caclz 3% Gel 2% Floseal 1/4 */sk | | | 890 4 15 2. | 0.00 1.20 .75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 117.5 | 00 |
| 200 205 206 209 | 1 60 200 sks 565# 375# | Pump Charge Mileage Class A' Cement Caclz 3% Gel 2% | | | 890 4 15 | 0.00 1.20 .75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 | 00 |
| 200 205 206 209 | 1 60 200 SKS 565# 375# 50# | Pump Charge Mileage Class A' Cement Caclz 3% Gel 2% Floseal 1/4 */sk | | | 890 4 15 2. | 0.00 1.20 .75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 117.5 | 00 |
| 200 205 206 209 | 1 60 200 SKS 565# 375# 50# | Pump Charge Mileage Class A' Cement Caclz 3% Gel 2% Floseal 1/4 */sk | | | 890 4 15 2. | 0.00 1.20 .75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 117.5 | 00 |
| 200 205 206 209 | 1 60 200 SKS 565# 375# 50# | Pump Charge Mileage Class A' Cement Caclz 3% Gel 2% Floseal 1/4 */sk | | | 890 4 15 2. | 0.00 1.20 .75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 117.5 | 00 |
| 101 107 200 205 206 209 | 1 60 200 SKS 565# 375# 50# | Pump Charge Mileage Class A' Cement Caclz 3% Gel 2% Floseal 1/4 */sk | | | 890 4 15 2. | 0.00 1.20 .75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 117.5 | 00 |
| 101 107 200 205 206 209 | 1 60 200 SKS 565# 375# 50# | Pump Charge Mileage Class A' Cement Caclz 3% Gel 2% Floseal 1/4 */sk | | | 890 4 15 2. | 0.00 1.20 .75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 117.5 | 00 |
| 101 107 200 205 206 209 | 1 60 200 SKS 565# 375# 50# | Pump Charge Mileage Class A' Cement Cacle 3% Gel 2% Floseal 1/4 * / sk Ton Mileage - Bulk Truck | | | 890 4 15 2. | 0.00 1.20 .75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 117.5 | 00 |
| 200 205 206 209 | 1 60 200 SKS 565# 375# 50# | Pump Charge Mileage Class A' Cement Caclz 3% Gel 2% Floseal 1/4 */sk | 4 | | 890 4 15 2. | 0.00 1.20 .75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 117.5 | 00 |
| 200 205 206 209 | 1 60 200 SKS 565# 375# 50# | Pump Charge Mileage Class A' Cement Cacle 3% Gel 2% Floseal 1/4 * / sk Ton Mileage - Bulk Truck | 4 | | 890 4 15 2. | 7.75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 117.5 789.6 | 000 |
| Code 101 107 200 205 206 209 | 1 60 200 SKS 565# 375# 50# | Pump Charge Mileage Class A' Cement Cacle 3% Gel 2% Floseal 1/4 * / sk Ton Mileage - Bulk Truck | 4 | 1, 5 % | 890 4 15 2. | 7.75 .63 .21 .35 | 890. 252.0 3150.0 355.9 78.7 117.5 | 00 |

810 E 7TH PO Box 92 EUREKA, KS 67045 (620) 583-5561



Cement or Acid Field Report
Ticket No. 4946
Foreman Kevin McCoy

Camp Eureka

API 15.035-24715

| Date | Cust. ID# | Leas | e & Well Number | | Section | Township | Rang | e County | State |
|---|-----------------------------|----------|---|-------------------|---|-------------------------|--|---|--------|
| 1-23-20 | 13/15 | Jones | # / A | | 31 | 335 | 66 | Cowley | Ks |
| Customer RA E | ne-84. | LLC | | Safety Meeting | | D Jaso | river // // // // // // // // // // // // // | Unit# | Driver |
| | | | ., Ste 100 | JH SM | 110 | Steve Josh | | | |
| city Leaux | | State Ks | Zip Code | JV | | | | | |
| ob Type Zon Casing Depth Casing Size & N Displacement | 3454 Nt. <u>51/2" 17</u> | Hole Siz | th <u>3457'</u> e <u>7%"</u> eft in Casing <u>4/'</u> ement PSI <u>/800</u> | | Slurry Vol. 3 Slurry Wt. 3 Water Gal/SK Bump Plug to | 3 - 13.8 # 7.4 - 9.0 | | Tubing Drill Pipe Other <u>P87D 34/</u> . BPM | 3' |

Remarks: SAFETY Meeting: 51/2 17 * CASING SET @ 3454'. Rig up to 51/2 CASING. BREAK CIRCULATION W/ 5 BbL Fresh water. Mixed 100 sks 60/40 formix Cement w/ 6% Gel, 2# Phenoseal/sk@ 13.2* / gal, yield 1.57 = 28 BbL Slurry, Tail in w/ 150 sks Thick Set Cement w/ 5* Kol-Seal/sk I* Phenoseal/sk 1/3% CFL-115 @ 13.8* / gal yield 1.75 = 47 Bbl Sturry. wash out Pump & Lines, Shut down. Release Latch down Plug. Displace Plug to Seat w/ 81.5 Bbl Fresh water (first 40 Bbl w/ Kcl) Final Pump Pressure 1800 psi Bump Plug to 2150 Psl. wait 2 mins. Release Pressure. Float & Plug Held. Good Circulation @ All times while Cementing. Job Complete. Rig down.

flug RAT Hole w/ 25 SKS

| 102 | | Description of Product or Services | Unit Price | Total |
|----------|------------|---------------------------------------|------------|-----------|
| | 1 | Pump Charge | 1100.00 | 1100.00 |
| 107 | 60 | Mileage | 4.20 | 252.00 |
| 1 781 | 2 | 51/2 STOP RINGS | 30.00 | 60.00 |
| 203 | 125 SKS | 60/40 POZMIX CEMENT | 13.40 | 1675.00 |
| 206 | 645 # | 6% GeL) 100 sks Lead Cement | . 21 # | 135,45 |
| 208 | 250 ª | 2" Pheno Seal 25 sks R.H. | 1.30 4 | 325.00 |
| 201 | 150 sks | THICK Set Cement | 20.50 | 3075.00 |
| 207 | 750 * | 5th KOL-SEAL TAIL CEMENT | . 47 * | 352.50 |
| 208 | 150 # | 1# Pheno SEAL | 1.30 4 | 195.00 |
| 211 | 50 # | 13% CFL-115 | 11.00 | 550.00 |
| 108.B | 13.62 TONS | Ton Mileage 60 miles | 1.40 | 1144.08 |
| 222 | 5 gals | KCL (FIRST 40 BbL DISPLACEMENT WATER) | 30.00 | 150.00 |
| 691 | 1 | 5/2 Guide Shoe | 175.00 | 175.00 |
| 674 | | 5/2 AFU FLOAT COLLAR W/ LATCH down | 359.00 | 359.00 |
| 604 | 3 | 5/2 Cement Baskets | 236.00 | 708.00 |
| 504 | 10 | 51/2 x 71/8 Centralizers | 50.00 | 500.00 |
| 421 | 1 | 51/2 LATCH down Plag | 242.00 | 242.00 |
| | | | Sub TotAL | 10,998.03 |
| | | THANK YOU 6.5% | Less 5% | 577.53 |
| | | -M 6.5% | Sales Tax | 552.63 |
| Authoriz | ation / | sger Marton Title GCO | _ Total | 10,973.13 |

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Laura Kelly, Governor

Susan K. Duffy, Chair Shari Feist Albrecht, Commissioner Dwight D. Keen, Commissioner

May 28, 2020

Thomas Raney Raney Oil Company, LLC 4665 BAUER BROOK CT. LAWRENCE, KS 66049-9013

Re: ACO-1 API 15-035-24715-00-00 JONES 1A SE/4 Sec.31-33S-06E Cowley County, Kansas

Dear Thomas Raney:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 01/15/2020 and the ACO-1 was received on May 28, 2020 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department