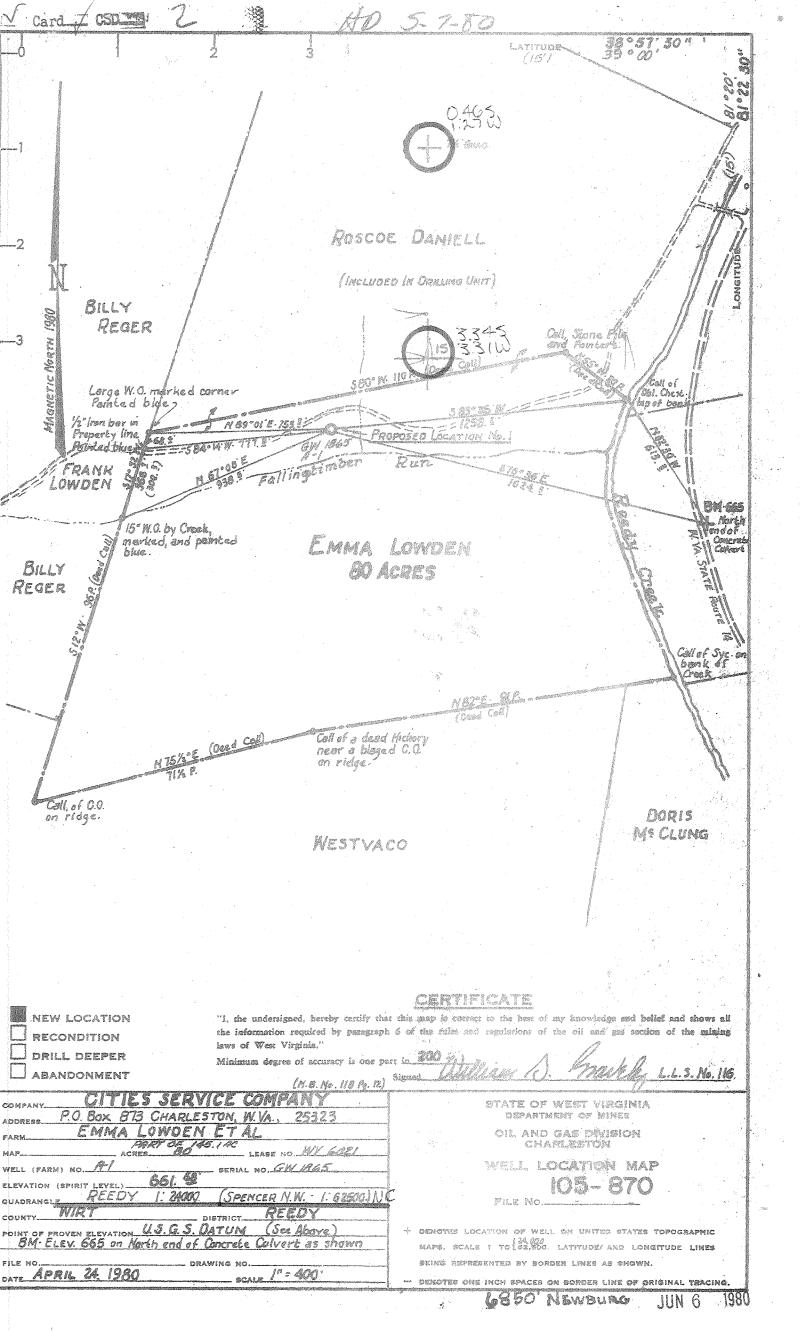


ep Well

1-0





STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Reedy
Permit No. 47-105-870

| Rotary X | Oil |
|-------------|---------|
| Cable | Gas 🍂 |
| Recycling | Comb. |
| Water Flood | Storage |
| Disposal | (Kind) |

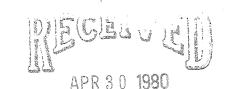
| Annual commission of a section of the section of th | | aal jank kaalan labaasinna Eroom ka koomin ja oron 200 ookee — mahinnaa oo kookee naasaa oo oo ookeelaa sa kookee | | en e | nadi hadi jagi desigisi da salah da salah sa | | (King) |
|--|--|--|--|--|---|--|--|
| | | rvice Company | | Casing and | Used in | Left | Common of Fill and |
| AddressBo | x 873, | Charleston, W | V 25323 | - | | | Cement fill up |
| _{Farm} Mrs. E | mma Lov | oden, et al | %cres | Tubing | Drilling | in Well | Cu. ft. (Sks.) |
| Location (wate | rs) Reed | l <u>v Creek</u> | | Size | | | |
| Well No. "A | " #1, G | SW-1865 | Hev \661.58' | 20.16 | | | |
| District Re | edy | CountyW | irt \673 K | Cond. | | | |
| | | wned in fee by Am | | 13-1023/8 | 61.5 | 61.5 | llO sx Neat |
| | wden | | 1999 NSB 9933 жүн обуруулдын оо Кулгу ооч и хэлэгчийн хүр оосууд оо ууулгаан уууулагаа | 9 5/8 | 2396 | 2396 | 670 sx Lite Po |
| Address Rt. | l, Pale | stine, WV 26 | 160 | 8 5/8 | | | 100 sx Neat |
| Mineral rights a | are owned | by Same | mmerchild field die Pales Lijksytte stander die zu zur mehrende europsateur ein zu der des zich fieldere. | and a second and a | 6355 | 1434 | 150 sx Neat |
| | | | | 5 1/2 | | | |
| Drilling Comm | enced 7 | 7/19/80 5/80 (P&A) | en de la companya de | 4 1/2 | to et timo of proceedings and the latent and tradition for the delication of the delication and analysis and with latent | metrican dispersion con commission participation (physical response dispersion (1) the | |
| Orilling County | 8/1 | .5/80 (P&A) | (PR-MAIR TO THE EXCEPTION OF THE PROPERTY OF THE ACTION OF THE EXCEPTION OF THE EXCEPTION OF THE BUILD OF THE | 3 | | | |
| numb combis | 7 L C VI | | A 5.5.6 | 3) | | | |
| | | | | Liners Used | | | + |
| | | cu. ft. per day | | Lincis Oscu | Security and register and register the security of the securit | Principal and Annual State of the State of t | • |
| Well open Well treatment | | hus, before test | man construction of the second | standing with a life facilities of a first a stigue to otherwise grows principles of a district an execution of the control of | ende med gestjon forgetig samming serial der med en en de de benede skele virgetig beseinde skele virgetig beseinde 19 f. n. d. 20 oktober 19 oktober 19 oktober 19 oktober 19 oktober 20 | manhama (Laga) yain nagwanna awaa ayaa ah a | |
| Tal szac aras | enterente de la constante de l constante de la constante de l | | Si a a a | | | | |
| | | | | | | | Feet |
| | | reticant esperiment de consistent de consist | | | | | |
| 1000001118 20110 | | | na ottorioninka jähelikuusi enkääninkoi vai jähenkin kerakaininkoi enkoja enkoja enkoja enkäänin ja eleksia ja Ottorioninka jähelikuusi oli enkääninkoi enkääninkoi enkääninkoi enkääninkoi enkääninkoi enkääninkoi enkäänink | | TI Augustein van de | ditan meneromania natura nya matana nya mata | II y kiron. Ugar amiginir kumingangian 140-09 (Elektifen-kejah mondali Elektrologi Amindalambanda didi dalah keda kelangiy |
| Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas o | r Water | * Remarks |
| sand | Gray | rivalemicos cumum menero como messocares como como como como como como como com | matronis antos consensamentos consensamentos. | orradioneramente en samen en e | neprononensensensensensensensen | waterween | n valification in equival (en Annexes van Constant) or (201) for extinor a constant development (en Annexes van |
| Red Rock | Red | Soft | 74 | 105 | 4 | M. C. S. Star. South Star. | |
| Sand | Gray | Hard | 105 | 220 | | | |
| Red Rock | Red | Soft | 220 | 230 | 200mm | | |
| Sand | Gray | Hard | 230 | 300 | | | |
| Red Rock | Red | Soft | 300 | 345 | | | |
| Shale | Gray | Med. | 345 | 571 | | Ø 2 2 m = - | - W |
| Sand | Gray | Med. | 571 | 623 | 100 Ton - 62 FT / 100 Ton - 62 | AUG 2 | 1980 |
| Shale Sand | Gray | Soft | 623 | 637 | On | De Paker | *** |
| sand Sand & RR | Gray | Med. | 637 | 873 | to the state of th | ê Gasd | VISION VINES |
| Sand & KK | | & Red Hard | 873 | 1094 | * sum I | E Some | |
| Sand & RR | Gray | Hard & Red Hard | 1094 1175 | 1175 | abiro da congr | | |
| hale | Gray | o ned nard Soft | 2031 | 2031 2395 | ringle . | | |
| Coffee Sh | Br | Soft | 2395 | 2400 . | E) in the second | | |
| iltstone | Gr | Med | 2393 | 2417 | Chartelarity | | |
| hale | Gr | Soft | 2417 | 5304 | - | | |
| ime | Gr | Hard | 5304 | 5505 | - | | |
| riskany | | Hard | 5505 | 5599 | 55711 | water | |
| Brown Sh | Br | Soft | 5599 | 5626 | 9 | | tric log 5521' |
| hale & Sar | nd GR | Soft | 5626 | - Problems and | , | - gr - ver after Night Shall V | |
| Sharkara . | | and the Car | Section of the sectio | in which to app. | | | tina No. g |
| 1 | L NE | where 644 | | | Tono Control C | | i de la companya de |
| | | | hot b Gsa | | La cren | | |

(over)

* Indicates Electric Log tops in the remarks section.

Lower log missing





DEPARTMENT OF MINES

Oil and Gas Division

OIL & GAS DIVISION DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

| TO THE DEPARTMENT OF MINES, | and the second s |
|---|--|
| Charleston, W. Va. | DATE April 30, 1980 |
| Surface Owner Emma Lowden (Mrs.) | Company Cities Service Company |
| Address Rt. 1 Palestine, WV 26160 | Address Box 873, Charleston, WV 25323 |
| Mineral Owner Same | Pt. of 145.1 AC |
| Address | Location (waters Falling Timber Run of Reedy Creek |
| | Well No. "A" #1, GW-1865 Elevation 661.58 |
| Address | District Reedy County Wirt |
| Coal Operator Not Operated | · · · · · · · · · · · · · · · · · · · |
| Address | _ |
| THIS PERMIT MUST BE POSTED AT THE WELL SITE | |
| All provinons being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved | NSPECTOR |
| <u>.</u> | O BE NOTIFIED Paul Goodnight |
| 1_8_81 | DDRESS Smithville, WV 26178 |
| Hopert to Mil | DDRESS SHITHVIIIC, W. 20170 |
| Deputy Director - Oil & Gas Division | PHONE 477-3660 |
| GENTLEMEN: | |
| | e above named farm or tract of land for oil and gas, having fee |
| 19 | REDRILLFRACTURE OR STIMULATE |
| | notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. * |
| | registered mail, or delivered to the above named coal operators Same day before, or on the partment of Mines at Charleston, West Virginia. |
| PLEASE SUBMIT COPIES OF ALL | Very truly yours, Cities Service Company (Sign Name) Sam J. Matthews Well Operator Reg. Prod. Manager |
| WEST VIRGINIA GEOLOGICAL AND | Box 873 |
| ECONOMIC SURVEY Addres | SS Street |
| P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 Well Operation | ator <u>Charleston</u> City or Town |
| AC-304 - 292-6331 | |
| | W. Va. 25323 |
| | State |
| notice and plat by the department of mines, to said proposed location, | Department of mines, within said period of ten days from the receipt of the department shall forthwith issue to the well operator a permit reciting perators or found thereto by the department and that the same is approved |
| | WIRT-870 PERMIT NUMBER |
| "I have read and understand the reclamation requirements as set f Chapter 22, Article 4, Section 12-b and will carry out the specified require | |

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

| PROPOSED WORK ORDER T | ODRILL | DEEPEN | _ FRACTURE-STIMULATE |
|---|---|--|---|
| DRILLING CONTRACTOR: (| If Known) | RESPONSIBLE AGE | |
| NAME Ray Resource | S CI I I | NAME Sam J. Mat | |
| ADDRESS 630 Commerce | | ADDRESS Box 873 | 3, Charleston, WV 25323 |
| TELEPHONE 344-8393 | | TELEPHONE304 | 4-344-8383 |
| ESTIMATED DEPTH OF COM | | ROTARY X | CABLE TOOLS |
| PROPOSED GEOLOGICAL FOR | RMATION: Newburg | | |
| TYPE OF WELL: OIL | GAS X CO | MB STORA | GE DISPOSAL |
| • | RECYCLING | G WATER I | FLOOD OTHER |
| TENTATIVE CASING PROGRA | λM: | | |
| CASING AND TUBING SIZE | USED FOR DRILLING | LEFT IN WELL | CEMENT FIFE UP OR SACKS - CUBIC FT. |
| - 20 16 65# H-40 | 601 | | Cement to surface |
| 13 - 10 | | | |
| 9 - 5/8 36#, K-55 8 - 5/8 | 2400* | | Cement to surface |
| 7 23# K-55 | 6450 * | The state of the s | |
| 5 1/2 | 0430 | | Cement bottom 500' |
| 4 ½ 11.6# N-80 | 6850 | | Cement 400' |
| 3 | | | Perf. Top |
| 2 | | | Perf. Bottom |
| Liners | | | Perf. Top |
| | | | Perf. Bottom |
| | | | 1930 |
| APPROXIMATE COAL DEPTHS IS COAL BEING MINED IN THE | None | * | R <u>5800</u> FEET |
| TO DRILL: | | | |
| SUBMIT FIVE (5) COPIES OF PLAT. | OF OG - 1, \$100.00 PERMIT | FEE, PERFORMANCE | BOND AND PERMANENT COPY |
| TO DRILL DEEPER OR REDRI | LL: | | en. |
| SUBMIT FIVE (5) COPIES | OF OG - 1, SHOWING ORIGINATO 1929, A PERMANENT COP | AL PERMIT NUMBER A Y OF THE PLAT ANI | AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD |
| TO FRACTURE - STIMULATE: | | | |
| OIL AND/OR GAS WELL O | ORIGINALLY DRILLED BEFORE T AND ORIGINAL WELL RECO | JUNE 5, 1929, FIVE (8 | 5) COPIES OG - 1, PERFORMANCE |
| OIL AND/OR GAS WELL O | | OR AFTER JUNE 5, 1 | 929, FIVE COPIES OG - 1, SHOW- |
| Required forms must be file four (24) hours in advance. | ed within ninety (90) days of con | npletion for bond releas | e. Inspector to be notified twenty- |
| | | | |
| • | | | |
| | • | | |
| The following waiver must thereof. | be completed by the coal operat | or if the permit is to b | e issued within ten days of receipt |
| | ent for ed and place on our mine maps | | ner or Operator of the coal under |
| We the | Coal Company hav | e no objections to said | well being drilled at this location, |
| code. | complied with all rules and regulat | tions in Articles 4, 5, and | d 7, Chapter 22 of the West Virginia |
| | | | For Coal Company |
| | | | For Coal Company |
| | | ************************************** | Official Title |

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



AFFIDAVIT OF PLUGGING AND FILLING WELL

AUG 2 2 1980

OD

OD

| NA. | D BE MADE IN TRIPLI | | | s Service Com | · • 💟 | F MINES |
|--|---|--|-------------------------------|--|------------------------------|---|
| | PERATOR OR OWNER | The second secon | | NAME OF WELL | | |
| | ADDRESS | - | Box 8 | 373, Charleston | | 323 |
| | ADDRESS | | | COMPLETE AD | | 00 |
| COAL O | PERATOR OR OWNER | | ···· | August 20, WELL AND LO | CATION | <u> 19 80 </u> |
| | ADDREES | *************************************** | | Reedy | | District |
| Mrs. Emma I | owden, et al | | | Wirt | | |
| | OR PROPERTY OWNER | | | Wirt | | County |
| Rt. 1, Pale | stine, WV 26160 | W | 'ell No. | ''A'' #1, GW-18 | 365 | |
| | ADDRESS | | Emma | Lowden, et al | l | |
| | | | | | | Farm |
| STATE INSPECTOR | SUPERVISING PLUGGI | NG Paul Go | odnigh | t, Smithville | , WV 2617 | 78 |
| | | AFFIDAV | I m | | | |
| STATE OF WEST | VIRGINIA, | No. | | | | |
| County of Wirt | | SS: | | | | |
| Т | homas J. Osborne | 277.4 | J | oe Moles | | |
| being first duly sw | orn according to lav | v depose and | say that | t they are experie | enced in the | work of |
| plugging and filling | oil and gas wells and | were employ | nd hre | Cities Serv | rice Compa | ıny |
| wen operator, and I | participated in the wo | ork of pluggin; | g and f | illing the above | well that s | aid work |
| was commenced on and filled in the following | the 13th day of lowing manner: | August | , 1 | 9_{80} , and that t | he well wa | s plugged |
| AND OR ZONE RECORD | | | TI TI | | | |
| | FILLING | MATERIAL | | PLUGS USED | C. | ASING |
| FORMATION | | | | SIZE & KIND | CSG | CSG |
| | | , , | | | PULLED | LEFT IN |
| lewburg | Bentonite Gel | 6445-62 | 45 5 | 2 sx Neat | 4921 | 1434 - 7 |
| | | | | | | 1434' - 7 |
| lewburg Devonian Shale | Bentonite Gel Bentonite Gel | | | 2 sx Neat 37 sx Neat | | 2396' - 9 |
| Devonian Shale | Bentonite Gel | 2462- | 2 2 2 3 | 37 sx Neat | | 1434' - 7 2396' - 9 |
| | | 2462- | 2 2 2 3 | | | 1434' - 7 |
| Devonian Shale | Bentonite Gel | 2462- | 2 2 2 3 | 37 sx Neat | | 1434' - 7 2396' - 9 |
| Devonian Shale | Bentonite Gel | 2462- | 2 2 2 3 | 37 sx Neat | | 1434' - 7 2396' - 9 |
| Devonian Shale | Bentonite Gel | 2462- | 2 2 2 3 | 37 sx Neat | | 1434' - 7 2396' - 9 |
| Devonian Shale | Bentonite Gel | 2462- | 2 2 2 3 | 37 sx Neat | | 1434' - 7 2396' - 9 |
| Devonian Shale | Bentonite Gel | 2462- | 2 2 2 3 | 37 sx Neat | | 1434' - 7 2396' - 9 |
| Devonian Shale | Bentonite Gel | 2462- | 2 2 2 3 | 37 sx Neat | | 1434' - 7 2396' - 9 |
| Devonian Shale | Bentonite Gel | 2462- | 2 2 2 3 | 37 sx Neat | | 1434' - 7 2396' - 9 |
| Devonian Shale | Bentonite Gel | 2462- | 2 2 2 3 | 37 sx Neat | | 1434' - 7 2396' - 9 |
| Devonian Shale | Bentonite Gel | 2462- | 2 2 2 3 | 7 sx Neat 2 sx Neat | 4921 | 1434' - 7 2396' - 9 61.5' 13 |
| COAL SEAMS | Bentonite Gel | 2462- | 2 3 2 3 | 7 sx Neat 2 sx Neat DESCRIPTIO | N OF MONUMI | 1434' - 7 2396' - 9 61.5' 13 |
| Devonian Shale | Bentonite Gel | 2462- | 2 3: 2 3 | 7 sx Neat 2 sx Neat | N OF MONUMI | 1434' - 7 2396' - 9 61.5' 13 |
| COAL SEAMS No coal | Bentonite Gel | 2462- | 2 ½ 2 3 | DESCRIPTION OF 9-5 W-1865 | N OF MONUMI | 1434' - 7 2396' - 9 61.5' 13 |
| COAL SEAMS E) No coal | Bentonite Gel | 2462- | 2 ½ 2 3 | DESCRIPTION Joint of 9-5 | N OF MONUMI | 1434' - 7 2396' - 9 61.5' 13 |
| COAL SEAMS E) No coal E) | Bentonite Gel Bentonite Gel | 2/62-32' 65. | 2 ½ 2 3 | DESCRIPTION 1 joint of 9-5 W-1865 | N OF MONUMI | 1434' - 7 2396' - 9 61.5' 13 61.5' 13 |
| COAL SEAMS E) No coal E) and that the work | Bentonite Gel Bentonite Gel Of plugging and filli | 2/62-32' 65. | 2 ½ 2 3 | DESCRIPTION 1 joint of 9-5 W-1865 | N OF MONUMI | 1434' - 7 2396' - 9 61.5' 13 61.5' 13 |
| coal seams No coal E) and that the work of August | Bentonite Gel Bentonite Gel Bentonite Gel of plugging and filling, 19 80. | 2/62-32' 65. | 2 ½ 2 3 | DESCRIPTION 1 joint of 9-5 W-1865 | N OF MONUMI | 1434' - 7 2396' - 9 61.5' 13 61.5' 13 |
| COAL SEAMS E) No coal E) and that the work | Bentonite Gel Bentonite Gel Bentonite Gel of plugging and filling, 19 80. | 2/62-32' 65. | 2 ½ 2 3 | DESCRIPTION 1 joint of 9-5 W-1865 | N OF MONUMI | 1434' - 7 2396' - 9 61.5' 13 61.5' 13 |
| coal seams No coal E) and that the work of August | Bentonite Gel Bentonite Gel Bentonite Gel of plugging and filling, 19 80. | 2/62-32' 65. | 2 ½ 2 3 | DESCRIPTION 1 joint of 9-5 W-1865 | N OF MONUMI | 1434' - 7 2396' - 9 61.5' 13 61.5' 13 |
| COAL SEAMS E) No coal E) and that the work August And further depo | Bentonite Gel Bentonite Gel Bentonite Gel of plugging and filling, 19 80. | 2/62-32' 65 S. | 2 ½ 2 3 | DESCRIPTION 1 joint of 9-5 W-1865 7-105-870 Impleted on the | 4921' N of Monumi 5/8" casin | 1434' - 7 2396' - 9 61.5' 13 61.5' 13 1434' - 7 |
| COAL SEAMS When the coal seams and that the work and further deposits a | Bentonite Gel Bentonite Gel Bentonite Gel of plugging and filling, 19 80. onents saith not. | 2/62-32' 65 S. | via 1 7 G 4 was con Long | DESCRIPTION 1 joint of 9-5 W-1865 | 4921' | 1434' - 7 2396' - 9 61.5' 13 61.5' 13 1434' - 7 |