



IV-35 (Rev 8-81) Rev. 3/21/84

State of Mest Airginia Pepartment of Mines Gil und Gas Division

| Date | January 23, 1984 |
|---------------|------------------------|
| Opera Well | tor's No. C-71 |
| Farm | CAT STATE |
| APT N | 6 47 - 059 <u>1065</u> |

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

| OCATION: Elevation: 1580' Watershed_ | Laurel : | Fork | 0 817 - 885 NO | |
|---|----------------|-------------|----------------|-------------------|
| District: Hardee County Mins | | | Myrtle | |
| | fā | | | |
| | 301 | | | 201100 |
| OMPANY Seneca-Upshur Petroleum Company | 966 | | Snale | a base |
| DDRESS P.O. Box 2048, Buckhannon, WV 26201 | Casing | Used in | Left | Cement fill up |
| DESIGNATED AGENT Joseph G. Hager | Tubing | Drilling | in Well | Cu. ft. |
| ADDRESS P.O. Box 2048, Buckhannon, WV 26201 | Size | | Simil | Sand 6 |
| SURFACE OWNER Cotiga Development Company 2nd Floor Rear, 14 E. Lacaster Ave. | 20-16 Cond. | 20 | 20 | 10 |
| ADDRESS Paoli, Pennsylvania 19301 | 13-10" | 1123 | 1123 | 390 |
| MINERAL RIGHTS OWNER Georgia-Pacific | 9 5/8 | | | - only |
| ADDRESS 133 Treachtreet St., N.E., Atlanta, GA | | 2530 | 2530 | 420 |
| OIL AND GAS INSPECTOR FOR THIS WORK Arthur | 7 | | | Shale |
| St. ClairADDRESS P.O. Box 157, Brenton, WV | 5 1/2 | | | 1503 |
| PERMIT ISSUED 6/24/83 | 4 1/2 | 1 | 4012 | 175 |
| DRILLING COMMENCED 10/30/83 | 3 | | Shele | 5888 |
| DRILLING COMPLETED 11/7/83 | 2 | | Line | Histil. |
| IF APPLICABLE: PLUGGING OF DRY HOLE ON | 2 | | 9,0 | 11 818 |
| CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED | Liners | | PR 12 | 17 918 |
| ON | uscu | | BLSSS1FC | DARE |
| GFOLOGICAL TARGET FORMATION Marcellus | | Dep | th 5200 | fee |
| Depth of completed well 5072 feet F | Rotary X | | | 89186 |
| Water strata depth: Fresh 500 feet; | | | | |
| Coal seam depths: 277',444',580',986',1094 | 'Is coal | being min | ed in the | area? No |
| Coal Seam depuis. | 10 000 | | | |
| OPEN FLOW DATA | | | | 160 5 |
| Producing formation Devonian Shale | Pa | y zone dep | oth 3 | 468 IEE |
| Gas: Initial open flow Trace Mcf/d | Oil: Ir | itial open | i ilow | BDI |
| Final open flow 880 Mcf/d | | | | |
| Time of open flow between init | | | | |
| Static rock pressure 595 psig(surface | e measure | ment) after | er 24 hou | irs shut |
| (If applicable due to multiple completion | | | | |
| Second producing formation | Pa | ay zone dep | oth | fee |
| Gas: Initial open flow Mcf/d | | | | |
| | Oil. F | inal open f | flow | Bbl |
| Final open flow Mcf/d Time of open flow between init | | | | |

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

FOAM FRAC:

DATE:

1/5/84

WATER:

783 BBLS.

SAND:

210,000#

PERFS:

4310' - 4937'

30 .49 Perfs

NITROGEN:

20,180 CCF

WELL LOG

| ORMATION COLOR HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fresh and salt water, coal, oil and gas |
|-----------------------------|--|--|--|
| Sand | 0 | 83 | Subrah Indrinaru |
| Sand & Shale | 83 | 166 | .cetto. |
| Sand | 166 | 185 | |
| Sand & Shale | 185 | 224 | re-many Seneca-Deshur Ferroles |
| Sand | 224 | 277 | |
| Coal | 277 | 292 | Anness F.O. Box 2048, Suckhar |
| Sand | 292 | 444 | B D desert warm wash C B |
| Coal | 444 | 446 | |
| Sand & Shale | 446 | 500 | appress 7.0. Box 2048, Buckhar |
| Shale | 500 | 546 | |
| Sand | 546 | 580 | established sales Contas Developes |
| Coal | 580 | 590 | ALCOVING PAGE PROBLEM |
| Sand & Shale | 590 | 922 | AND TAKE SHARE AND THE STATE OF |
| Mine | 922 | 932 | MINERAL RIGHTS CREEK GROEEL |
| Sand & Shale | 932 | 986 | ADDRESS 133 Tranchtreet St., |
| Coal | 986 | 988 | FIRE STRIPPINESS LES CONTROLS |
| Shale | 988 | 1094 | OIL AND GAS INSPECTOR FOR THIS |
| Coal | 1094 | 1098 | xo8 .0.9 275/00/bis10 .12 |
| Shale | 1098 | 1163 | AND SAY CONTRICTORS 19 53 5 |
| Sand & Shale | 1163 | 2145 | PERROT ISSUED 6/24/83 |
| Shale & Red Rock | 2145 | 2185 | The state of the s |
| Sand & Shale | 2185 | 2442 | DICTLING CONSENCED 10/39/83 |
| Little Lime | 2442 | 2452 | DESTALLING COMPLETED ALLTING |
| Red Rock & Shale | 2452 | 2492 | The second secon |
| Big Lime | 2492 | 2770 | IF APPLICABLE: PLOTERING OF DR |
| Big Injun | 2770 | 2819 | ONTENDED PROBRESSION FROM DR |
| Sand & Shale | 2819 | 2954 | PENDENDING. VEREAL PERMISSION |
| Weir | 2954 | 3004 | |
| Sand & Shale | 3004 | 3355 | |
| Sudburry Shale | 3355 | 3410 | COLOGICAL TERRET FORVACION |
| Berea | 3410 | 3468 | |
| Gray Shale | 3468 | 4280 | Depth of completed well- |
| Brown Shale | 4280 | 4896 | GRIOG from 1590'K |
| Marcellus | 4896 | 5072 | T.D. 395 396 |
| | and the same of th | onon @ TD | 401 3400 |
| | | The state of the s | |
| | | | 810 4318 |
| | | | |

(Attach separate sheets as necessary) 825 4720 4899 461 5060

Seneca-Upshur Petroleum Company

Well Operator

By:

Date ·

January 23, 1984

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic

"Metailed geological record of all formations, including

""", encountered in the drilling of a well."

DRILLING CONTRACTOR:

Little Swiss Drilling Co.



| 1) | Date: | tada va | , 19 |
|----|------------|---------|------|
| 2) | Operator's | 0.71 | |
| | Well No | | |

47 3) API Well No. State County Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

| make a contract | | | - PARTICLES | OIL AN | D GAS | WELL PERMIT | APPLICATION | | |
|-----------------------------|------------------------------------|--|--|-----------------------------------|---|--|----------------------|--|---|
| | | | | | | | COR STREET, A | | |
|) WELL TYPE | | | | X . | _ | | | SECURITION OF SE | |
| LOCATION | | | roduction _ | | | Underground st | W | _/ Deep | / Shallow/) |
|) LOCATION | | ation: rict: | Harven | | | Watershed: | Mingo | Ouadrangle: | Mozer-1sa |
|) WELL OPER | | Sen | eca-Upsi | nur Pe | etrol | |) DESIGNATED | | ph G. Hager |
| Address | | O. Box | 2048 | CHANN | La Lieb e | II y en barrio | Address | P.O. Box | 2048 |
| | Bu | cknann | on, Nest | E VIR | jinia | 26201 | i wasu is sa so | Buckhamic | m, West Virgini |
| OIL & GAS | | | | | | | | | |
| ROYALTY | OWNER | No. of Street, | iga Deve | STODER | ant C | CREDENY 12 |) COAL OPERAT | ror <u>None</u> | |
| Address | 418 | | r Rear, | 19 15 | - 90 - 10 - 10 - 10 | caster Ave | Address _ | | |
| | 10 | | ennsylva | anid | 1930 | | | | |
| Acreage SURFACE O | WAIED | Geo | rgia-Pac | CIFIC | | 13 | | (S) WITH DECLARA | ATION ON RECORD: |
| SURFACE O | | O. Box | 1808 | | | | Name | Paintsvil | le, Kentucky 4 |
| Address | Au | gusta, | Georgia | a 309 | 909 | | Address | | disabligità i (R. C. S.) |
| Acreage | 10. | 30 | | | | | Name | | |
| FIELD SALI | E (IF MA | DE) TO: | | | | | Address | | |
| Address | | EQUAL IS | 1.00101000 | | | Lighter of the | Amus seedand a | DE CORDEN SUSPENS | en and the second |
| | 1 | | | | | 14 |) COAL LESSEE | WITH DECLARATI | ON ON RECORD: |
| OIL & GAS | INSPECT | OR TO B | E NOTIFIEI | | | | Name | X Rd | to see a contact |
| Name | P. |). Box | 157 | UNION DOS | | alla 6. 37 mines | Address _ | | |
| Address | | | West Vi | zaini | a 2 | 4818 | tien ad on a son | | 5 70 2 9 15 18 18 18 18 18 18 18 18 18 18 18 18 18 |
| PROPOSED | | | X / I | | | / Redrill | / Frank | | |
| 1 KOI OSED | WORK. | | ff old forma | | | _/ Perforate n | | ure or stimulate | |
| | | | hysical chang | | | | ow formation | | |
| GEOLOGIC | AL TARG | | | A | larce. | Llus | | | |
| 17) Estimate | d depth of | completed | d well, | | 5200 | feet | | | |
| 18) Approxim | mate water | strata der | oths: Fresh, | | 204 | feet; | alt, | feet. | |
| 19) Approxim | mate coal | seam depth | ns: | | 120 | Is coal | being mined in the a | rea? Yes | / No |
| CASING AN | D TUBIN | G PROG | RAM | | | | | | |
| CASING OR | 11 | C | PECIFICATION | C | 11 | FOOTAGE | INTERVALS | CEMENT FILL-UP | PACKERS |
| TUBING TYPE | G: | | Weight | | | | | OR SACKS | FACKERS |
| Conductor | Size | Grade | per ft. | New I | Used | For drilling | Left in well | (Cubic feet) | 77. 1 |
| Fresh water | | 1 | | | | | | | Kinds |
| Coal | | 1 | | | | and the second | | Note the said | Sizes |
| Intermediate | 8 5/8 | | 23.00 | X | | 2460 | 2460 | To Surface | Diago. |
| Production | 4 1/2 | 2" | 23,00 | X | | 学育的 | 5200 | As Required | Depths set |
| Tubing | | | | | | | | oy Rule 15.0 | |
| Liners | | | | | | | | | Perforations: |
| | | | | | | | | | Top Bottom |
| | | | | | | | | | |
| ENTER A CONTO | NI DIGIT | ng. | | | | | | | |
| EXTRACTION Check and pr | | | louina | | | | | | |
| | | | | continuin | g contra | act or contracts h | which I hold the | right to extract oil or | gas. On File 059 |
| | | | | | | e reverse side fo | | | |
| ROYALTY P | | | | | | | | | ne toman |
| | | | | | | | | | ng for flat well royalty or an e of oil or gas so extracte |
| produced or r | | | No 🗆 | ici oi tii | ic on or | gas in place will | en is not innerently | related to the volume | e of on or gas so extracte |
| | | | | eded. If | the answ | ver is Yes, you n | ay use Affidavit Fo | orm IV-60. | |
| Required Cop Copies of this | | | | losed pla | at and re | clamation plan b | ave been mailed by | registered mail or del | livered by hand to the abo |
| named coal o | perator, c | oal owner | (s), and coal | | | | | | cation to the Department |
| Mines at Cha | | | | | has I | | | | |
| Notary: | 1886 | 112 1 | A Lake | 400 | the state of | isaa leeu siii | Signed: | armire state of | 1.00 |
| My Commissio | n Expires | () June | 6, 198 | d | 17,547.38 | 11 11 25 5 18 | Its: | ce President | A DELIGHTAN |
|) | aiki z | OF UR | s State | OT MG | | rginia. | A Tomas | TO SERVE LOSS OF THE SERVE SERVE | 200 200 100 |
| | | | | | | FICE USE O | | | |
| | | | | | DR | ILLING PER | MIT | | 19 |
| mit number | | | | | | | | Date | |
| s permit coveri | ng the we | ll operator | and well loc | ation sh | own hel | ow is evidence of | permission granted | | e with the pertinent legal |
| rements subject | to the co | nditions co | ontained here | ein and c | on the re | verse hereof. No | tification must be g | iven to the District O | il and Gas Inspector. |
| | | | | | | s for any permitted work has com | | , the well operator or | his contractor shall notify |
| | and gas ill | Speciol 24 | nours octor | Guerdal | Permitte | | | | |
| mit expires Bond: | Age | nt· | Plat: | | acina | unless dri | lling is commenced i | orior to that date and p | prosecuted with due diligen |
| Dond. | Age | iit. | I lat. | Ca | asing | ree | 1 3/2-17 | 7/- | |
| 379/7 | | | FEB. | 1 | - | 福島へのシント | Adn | ministrator, Office of | Oil and Gas |
| | The second liverage and the second | The second secon | The second secon | THE RESERVE AND PERSONS ASSESSED. | AND DESCRIPTION OF THE PERSON NAMED IN COLUMN | The same of the sa | | | |