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State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: RAVENSCROFT, WAYNE

Operator Well No.: SWIGER #2

LOCATION:

Elevation: 1037.00

Quadrangle: WEST UNION

District: WEST UNION County: DODDRIDGE Latitude: 13800 Feet South of 39 Deg. 22Min. 30 Sec. Longitude 1420 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: DRILLING APPALACHIAN CORP P. O. BOX 99 Used in Casing | Left Cement ALMA, WV 26320-0099 & Drilling | in Well|Cu. Ft.| Agent: KENNETH R. MASON Size Inspector: MIKE UNDERWOOD 07/13/92 7/19/92 Permit Issued: 8-5/8" 1239' 1239' 1275 sks Well work Commenced: Well work Completed: 7/30/92 5155' 300 sks Verbal Plugging Permission granted on: Rotary XX Cable Rotal Depth (feet) 5218' Fresh water depths (ft) 200' Salt water depths (ft) 1900' Is coal being mined in area (Y/N)? Coal Depths (ft):

OPEN FLOW DATA

| Producing formation Benson | Pay zone depth | (ft) 5097-5101 |
|---------------------------------------|--------------------|-----------------|
| Gas: Initial open flow 10 MCF/d Oil: | initial open flow | 0 Bb1/d |
| Final open flow 460 MCF/d | Final open flow | 0 Bbl/d |
| Time of open flow between initial a | and final tests | 26 Hours |
| Static rock Pressure 1575 psig (surfa | ce pressure) after | <u>48</u> Hours |
| Second producing formation | Pay zone depth | (ft) |
| Gas: Initial open flow MCF/d Oil: | Initial open flow | Bb1/d |
| Final open flow MCF/d | Final open flow | Bbl/d |
| Time of open flow between initial a | | Hours |
| Static rock Pressurepsig (surfa | ce pressure) after | Hours |

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

| For: | DRILLING APPALACHIAN CORP. |
|------|--------------------------------------|
| | By: Kenneth Hagan Date: Gunt 25 1492 |

Perforated with 16 shots, at 5097'-5101'. Fraced with 10,000# 80/100 sand and 40,000# 20/40 sand in a 20# gel system. 74,000 SCF of nitrogen gas. Formation break was at 1973 psi, avg. psi, 2657, avg rate, 24.79 bbls/min. avg Nitrogen rate 3.75 MSCF/min. INSIP 1480 psi.

| Permian Sands/Shales | 0 | 500 | |
|---|--|--|----|
| Pennsylvanian Sands/Shales | 500 | 1900 | |
| Big Lime Keener Sand Shale Big Injun Sand Shale Weir Shale/Siltstone Gantz Sands Shale/Siltstone Gordon Sands Shale/Siltstone Warren Shale/Siltatone Riley Shale/Siltstone Benson Shale/Siltstone | 2002 2072 2078 2091 2210 2338 2412 2538 2557 2776 2795 3434 3465 4606 4666 5069 5080 | 2071 2078 2090 2209 2337 2411 2537 2556 2775 2794 3433 3464 4605 4665 5068 5079 show of gas | 15 |
| Total Depth | | 5218 | |

FORM WW-2B

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

DEPARTMENT DEPARTMENT APPLICATION

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

| 1) | Well Ope | erator: | DR | ILLING APPAL | ACHIAN CORPOR | ATION 1442 | 5 (8) 670 |
|--|----------|-----------|--|--------------------|---------------------------------|------------------------|-----------------------------------|
| 2) | Operator | r's Well | Number: | Swiger # | 2 | 3) El | evation: 1037 |
| | | | | or Ga: | | | |
| | | (b) | If Gas: | Production Deep | n_X/ Underg | round Storag Shallo | e/ w_X_/ |
| 5) | Proposed | d Target | Formation | (s):B | enson/Riley | | RECEIVED |
| 6) | Proposed | d Total D | epth: | 5500± | feet | | Office of Oil & Gas Permitting |
| 7) | Approxi | mate fres | h water s | trata dep | ths: | | JL 1 3 92 |
| 8) | Approxim | mate salt | water de | pths: | | | En |
| 9) | Approxim | mate coal | seam dep | ths: | | | |
| 10) | Does lar | nd contai | n coal se | ams tribut | ary to act | ive mine? Y | es/ No/ |
| 11) | Proposed | i Well Wo | rk: Dril: | l, perforate | , stimulate n | ew formation | <i>i</i> |
| 12) | | | CASIN | G AND TUB | NG PROGRAM | NewW | il |
| TYPE | | S | PECIFICAT | IONS | FOOTAGE I | TERVALS | CEMENT |
| | | Size | Grade | Weight per ft. | For drilling | Left in well | Fill-up (cu.ft.) |
| Condu | ctor | 11 3/4" | H-40 | 42# | 30' | 0 | 0.4 |
| Fresh | Water | | | | Macountable of American Control | | |
| Coal | *** | | | | | 16 | 738591411 B |
| Inter | mediate | 8 5/8" | J-55 | 20# | 1150 | 1150 | 38CSR18-11.2 |
| <u>Produ</u> | ction | 4 5" | J-55 | 10½# | 5170 | 5170 | 38CSR18-11.1 |
| <u> Tubin</u> | Q | | ethetherikalasianiaalasianiaalasianiaalasianiaalasianiaaniaalasiania | | | | |
| Liner | S | | | | | | |
| PACKE | | | | | | | |
| 00 S | nan | ths set | | | | | |
| 3 | · · | F | piviso | n of Oil a | nd Gas Use | Only | Ω_{2} |
| TA | Fee(s) p | aga: G | It well w | ork Parmit | | amation Fund | WPCP |
| THE STATE OF THE S | Plat (| # ww-9 | Ww- | 28 / 8 | iona Blank | Det Letter Type) | Agent Agent |
| ************************************** | | | • | • | nd. | 4 W 7 | |

| Page 1 of <u>5</u> | | 1) | Data: July 9 1002 |
|--|--|--|--|
| Form WW2-A | | 2) | Date: July 8, 1992 Operator's well number |
| (09/87) | | ۷, | Swiger #2 |
| (03) 01) | | 3) | API Well No: 47 - 17 - 3958 |
| | | 3, | |
| | €s | | State - County - Bermit |
| | ሮሞአጥሯ ለ፤ | - ಬಾರಲ್ | VIRGINIA |
| | | | VIRGINIA VISION OF OIL AND GAS |
| | DEFARINENT OF ENERG | JI, UI | VISION OF OIL AND GAS JUL 13 92 |
| | MORTON AND ADDITION | n r o s : | or 12 AZ |
| | NUTTICE AND APPLICAT | T.TON F. | OR A WELL WORK PERMIT |
| A) 0 | | | WV Division of Environmental Protection |
| | Owner(s) to be served | | o) (a) Coal Operator: |
| (a) Name | Wayne Ravenscroft | | |
| | 211 Riverton Road | | Address |
| | Baltimore, MD 21220 | | |
| (b) Name | | | (b) Coal Owner(s) with Declaration |
| Address | | | Name |
| | | | Address |
| (c) Name | | | |
| Address | | | Name |
| | | | Address |
| | | *************************************** | |
| 6) Inspector | Mike Underwood | | (c) Coal Lessee with Declaration |
| | Rte 2, Box 135 | | |
| | Salem, WV 26426 | | Name |
| Talanhan | 2 (304) - 782-1043 | | Address |
| rerephone | 762-1043 | | |
| I certify I have served accompanying o Pers Cert | copies of this notic locuments pages 1 thr sonal Service (Affida tified Mail (Postmark | nder Clee and cough avit at the cough cough at the cough cou | napter 22B of the West Virginia Code application, a location plat, and 5 on the above named parties, by: tached) |
| - Fubi | ication (Notice of P | ADT1C9 | icion accached) |
| I certify familiar with attachments, a responsible for | and conditions of any under penalty of lathe the information submands that based on my or obtaining the info | perming that the distribution of the distribut | 22B and 38 CSR 11-18, and I agree it issued under this application. I have personally examined and am on this application form and all cy of those individuals immediately on, I believe that the information |
| is true, accur | ate, and complete. | | |
| I am awar | e that there are sig | nifica | ant penalties for submitting false |
| information, i | ncluding the possibi | lity o | of fine and imprisonment. |
| | Well Oper | ator _ | DRILLING APPALACHIAN CORPORATION |
| OFFICH | SEAL BY: | | Kenneth Mason |
| May Asi, Sm | 701:00 | | President |
| EAN ENTRE | CHER Address | | P O Box 99 |
| P.O. 50 | X 11 | | Alma, WV 26320 |
| Anna, WV | | | 304/758-4638 |
| West The Tarre | before me thi | S 7+h | day of July , 19 92 |
| | | - / 54 | |
| | | lo | Bitty Mitchiel Notary Public |
| | expires Jebrura | () | notary rubite |