

Longitude

1.30s

Latitude

| Topo | Loc | ati | o n |
|------|-----|-----|-----|
|------|-----|-----|-----|

| 7.5' | Loc | 15' Loc |
|------|-----|---------|
| | | (calc.) |

Company Impaced ON Co

Farm I B Dachus

15' Quad ______ (sec.)

7.5' Quad Fason

District _________

WELL LOCATION PLAT

County 103 Permit 482



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION /6

Quadrangle Centerpoint

Permit No. WET-482

WELL RECORD

Oil or Gas Well Oil

| | | | | | | | · (KIND) |
|--|----------------------|---------------------------|--|---|------------------------|-----------------|---------------------------|
| Company IMP 504 Ca | ERIAL O arlton Ho | IL COMPAN use, Pittsbu | NY rgh 19, Pa. | Casing and Tubing | Used in Drilling | Left in Well | Packers |
| Farm J. B. | Dewhurs | t | Acres 2200 | | | | |
| Location (waters) | | lo Run | | Size | | | · · |
| | wenty (20 |) | Elev. 1263 | 16 | | | Kind of Packer |
| District Grant | <u> </u> | CountyV | Wetzel | - 13 | | | Aind of Facker |
| The surface of tra | ct is owned i | n fee by SAM | E AS ALL | . 10 | 760' | | Size of |
| OTHER DEV | VHURST | WELLS Address | | . 81/4 | 1505' | 320' | Size oi |
| Mineral rights are | owned by | | | | 25771 | | Donth oot |
| | | Address | | 5 3/16 | | 34501 | Depth set |
| Drilling commence | _{ed} Augu | st 19, 1960 | | . 3 | | | Don't ton |
| Drilling completed | Decen | ber, 1960 | | . 2 | | | Perf. top Perf. bottom |
| Date Shot | Fro | m | Го | Liners Used | | | Perf. top |
| With | | | | | | | |
| Open Flow | 10ths Water | in | Inch | | | | Perf. bottom |
| | | | Inch | | 5 1 / | 2 3/50 | |
| Volume | | | Cv. E4 | CASING CEM | | | _No. FtDate |
| Rock Pressure | 200 | (estima | Tedi | 100 585 | Cement - Ha | 11iburton | Service |
| · · | | | bbls., 1st 24 hrs | | ENCOUNTEREI | AT | FEETINCHES |
| | | | 1st 24 Mis | | TINC | | |
| | | | | | | | |
| WELL FRACTUR | FD Yes | 3 | | PEE | IIINC | HES | FEETINCHES |
| WEEL THROTOL | | | | | | | |
| | | 40 bbs | daily (oil) | | | | |
| DECITO A DODO | מידו אינו אינו מידי | TO DD5. | | | | | |
| RESULT AFTER | | | | | | | |
| ROCK PRESSUR | E AFTER TI | REATMENT | | | NONE | | |
| | E AFTER TI | REATMENT | | | NONE | Fe | et |
| ROCK PRESSUR | E AFTER TI | REATMENT | | | NONE Oil, Gas or Water | Fed Depth | |
| ROCK PRESSUR Fresh Water Formation | 60 60 | REATMENTFeetHard or | Тор | Salt WaterBottom | Oil, Gas | | |
| ROCK PRESSUR Fresh Water Formation | 60 60 | REATMENTFeetHard or | Top 0 | Salt Water Bottom | Oil, Gas | | |
| Fresh Water Formation clay sand stone | 60 60 | REATMENTFeetHard or | Тор 0 17 | Salt Water Bottom 17 38 | Oil, Gas | | |
| ROCK PRESSUR Fresh Water Formation | 60 60 | REATMENTFeetHard or | Top 0 17 38 | Bottom 17 38 62 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand | 60 60 | REATMENTFeetHard or | Top 0 17 38 62 | | Oil, Gas | | |
| Fresh Water Formation clay sand stone red rock sand slate | 60 60 | REATMENTFeetHard or | Top 0 17 38 62 70 | Bottom 17 38 62 70 77 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand | 60 60 | REATMENTFeetHard or | Top 0 17 38 62 70 77 | Salt Water | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate | 60 60 | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 | Bottom 17 38 62 70 77 90 100 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 | Bottom 17 38 62 70 77 90 100 115 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate red rock | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 | Bottom 17 38 62 70 77 90 100 115 140 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate red rock slate red rock | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 | Bottom 17 38 62 70 77 90 100 115 140 148 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate red rock slate red rock slate & shells red rock slate & shells | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 | Bottom 17 38 62 70 77 90 100 115 140 148 160 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate & shells | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate & shells red rock slate & shells red rock | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate & shells red rock slate ock slate cock | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate with shells slate red rock slate with shells | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate & shells red rock slate & shells red rock slate cock slate cock slate cock slate cock slate red rock slate | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate & shells red rock slate & shells red rock slate with slate red rock slate & shells slate red rock slate & shells slate red rock slate & shells | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate & shells red rock slate & shells slate red rock slate & shells slate red rock slate & shells slate red rock slate & shells sand | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate & shells red rock slate with shells slate red rock slate with shells red rock | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells slate red rock slate & shells slate red rock slate & shells | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 340 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells slate red rock slate & shells slate red rock slate & shells sed rock slate & shells sed rock | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 340 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 340 352 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate & shells red rock slate & shells slate red rock slate & shells slate red rock slate & shells slate red rock slate & shells sand red rock slate & shells sand red rock slate & shells sand | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 340 352 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 340 352 384 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate & shells red rock slate & shells slate red rock slate & shells slate red rock slate & shells slate red rock slate & shells sand red rock slate & shells sand red rock slate & shells red rock slate & shells | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 340 352 384 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 340 352 384 427 | Oil, Gas or Water | Depth | |
| Fresh Water Formation clay sand stone red rock sand slate sand slate red rock slate & shells red rock slate & shells red rock slate & shells slate red rock slate & shells slate red rock slate & shells slate red rock slate & shells sand red rock slate & shells sand red rock slate & shells sand | E AFTER TI 60 Color | REATMENTFeetHard or | Top 0 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 340 352 | Bottom 17 38 62 70 77 90 100 115 140 148 160 168 186 195 200 215 225 236 288 312 340 352 384 | Oil, Gas or Water | Depth | |

| Formation | Color | Hard or Soft | Top /6 | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|----------------|-----------|-----------------|--------------|--------|----------------------|----------------|----------------------|
| slate & shel | s | | 430 | 460 | | | |
| red rock | ğ | | 460 | 465 | | | |
| slate | , w. (25) | | (465 | 480 | | | |
| red rock | | | 480 | 488 | | · | |
| lime & slate | | | .488 | 558 | | | |
| slate | black | | 558 | 563 | | | |
| slate & lime | | | 563 | 583 | | | |
| | itty) | | 583 | 608 | | | |
| slate & shell | .s | | 608 | 653 | | | |
| red rock | | | 653 | 663 | | 1 | |
| slate & shell | s | | 663 | 703 | | | |
| lime shells | | | 703 | 720 | | | |
| slate | - | | 720 | 733 | | | |
| red rock | | | 733 | 744 | | | |
| slate & shell | s | 4 | 744 | 760 | | | |
| lime gritty | | | 760 | 847 | | | |
| red rock | | | 847 | 856 | | | |
| lime | | | 856 | 925 | 95 | 4.4 | |
| slate & shell | | | 925 | 1022 | | | |
| show of coal | Phog | | 1022 | 1023 | | | • |
| slate | Total S. | | 1023 | 1028 | | | |
| lime | | | 1028 | 1047 | | | |
| slate & shells | | | 1047 | 1090 | | | |
| lime | | | 1090 | 1110 | | | |
| pink rock | | | 1110 | 1120 | | | |
| slate & lime | | | 1120 | 1141 | | | |
| sand | | | 1141 | 1165 | | | |
| red rock | | | 1165 | 1180 | | | |
| slate & lime | | | 1 80 | 1208 | | | w.v. |
| red rock | | | 1208 | 1245 | 1 | | |
| slate & lime | | | 1245 | 1270 | | | |
| red rock | | | 1270 | 1295 | | | |
| slate & lime | • | | 1295 | 1365 | | | |
| Big Red | | | 1365 | 1370 | | | |
| slate | | | 1370 | 1375 | | · | |
| red rock | | | 1375 | 1384 | | | |
| Little Dunkar | 1 | | 1384 | 1398 | | | |
| slate & shells | | | 1398 | 1402 | | | |
| Red rock | | | 1402 | 1410 | | | |
| dslate & shell | s | ^ | 1410 | 1449 | | | |
| black slate | | | 1449 | 1476 | | * | N. |
| Big Dunkard | | | 1476 | 1508 | | | |
| slate & shells | | | 1508 | 1555 | | | • |
| sand | | , | 1555 | 1566 | | | |
| black slate | | , | 1566 | 1581 | | | * . |
| sand | | | 1581 | 1645 | gas show | St. No. | |
| slate & shells | l/ C | | 1645 | 1668 | | | |
| Ast salt sand | avil GiS | | 1668 | 1709 | | e. Na | |
| slate & shells | antai | ٠ | 1709 | 1723 | | | |
| 3nd salt sand | West () | | 1723 | 1772 | 1 | | |
| slate & shells | | | 1772 | 1825 | | | |
| gritty lime | (, | | 1825 | 1870 | water at | 1850 ' | |
| slate & shells | | | 1870 | 1930 | | | |
| gritty lime | | | 1930 | 1965 | | | |
| slate & shells | | 3 | 1965 | 2084 | | | |
| sand | Hard | | 2084 | 2113 | | | |
| slate & shells | | | 2113 | 2144 | | | |
| | | | 2144 | 21/2 | | | |
| sand slate | | | 2144 2162 | 2162 | | | Commence of Property |

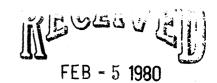
| - | 2 | 162 | 2178 | | | | | |
|---|---|-----|----------|----------|-----------|---------|--------|---------|
| | | | | Dat | e Jan | uary ' |) | , 1961 |
| | | | APPROVEI | Imperi | al Oil Co | mpany | | , Owner |
| | | | | By R. M. | Jordan | (Title) | Presid | lent |
| | | | | | | | | |

| WET- | 182 |
|------|-----|
|------|-----|

| | WET-482 | | |
|--|---------------|----------|-------------------|
| Formation | Top | Bottom | Remarks |
| | 2178 | 2188 | |
| sand | 2188 | 2210 | 7 303 |
| slate | 2210 | 2236 | |
| red rock | 2236 | 2256 | 2303 |
| slate & lime | 2256 | 2265 | 1040 |
| red rock | 2265 | 2275 | |
| slate & shells | 2275 | 2295 | |
| Little Lime | 2295 | 2303 | |
| pencil cave | 2303 | 2390 | |
| Big Lime | 2390 | 2550 | |
| Injun sand slate & shells | 2550 | 2672 | |
| | 2672 | 2775 | |
| Lime gritty slate & lime | 2775 | 2980 | |
| pink rock | 2980 | 3015 | |
| slate & lime | 3015 | 3091 | |
| pink rock | 3 9 91 | 3096 | |
| Gordon Sand | 3096 | 3135 | Show of oil |
| slate & lime | 3135 | 3190 | |
| sand | 3190 | 3215 | gas (slight show) |
| slate & shells | 3215 | 3423 | , |
| The state of the s | 3423 | 9 | Oil Show (3426) |
| Fifth or Bayard Sand | | | |
| | TOTAL DEPTH | 3470 | |







DEPARTMENT OF MINES

Oil and Gas Division

OIL & GAS DIVIS

47-103-482 DD

PERMIT NUMBER

OIL AND GAS WELL PERMIT APPLICATION

| TO THE DEPARTMENT OF MINES, | |
|--|--|
| Charleston, W. Va. | DATE February 5, 1980 |
| Surface Owner J. B. Dewhurst Heirs | Company_ Ferrell Prior |
| Traksonhura West Virginia | Address 304 Union Trust Bldg. Parkersby |
| Mineral Owner Mabel Smith Heefner et | Address |
| Jacksonburg West Virginia | Carpentars Rup of Fishing |
| A / Z | 1262 Cree |
| NT / 78 | Crant |
| NI / N | District Grant County Wet 281 Quadrangle Folsom 7.5' Center Point 15' |
| N/A | Quadrangle |
| Address | |
| HIS PERMIT MUST BE POSTED AT THE WELL SITE | |
| | |
| Il provisions being in accordance with Chapter 22, | INSPECTOR |
| of the W. Va. Code, the location is hereby approved | TO BE NOTIFIED Phil Tracy |
| or deepening. This permit shall expire if | ADDRESS Middlebourne, West Virginia |
| perations have not commenced by 10-13-80 | |
| Titlet to blek | PHONE 758-4573 |
| Pashty Director - Oil & Gas Division | |
| • | n the above named farm or tract of land for oil and gas, having fee |
| title thereto, (or as the case may be) under grant or le | |
| Figur John Inderes | nd ZKED PROTURE |
| 79 Mat 20 58 | and recorded on the day of |
| 19, in County, Book | Page Page |
| NEW WELL XX DRILL DEEPER | XX REDRILLFRACTURE OR STIMULATE |
| OIL AND GAS WELL ORIGINALLY DRI | LLED BEFORE JUNE 5, 1969. |
| The enclosed plat was prepared by a registered engir | eer or licensed land surveyor and all coal owners and/or operators |
| have been notified as of the above date. | or necessed and surveyor and an coal owners and/or operators |
| | reby notified that any objection they wish to make, or are required |
| | or filed with the Department of Mines within ten (10) days. * |
| Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address | d by registered mail, or delivered to the above named coal operators day before, or on the |
| same day with the mailing or delivery of this copy to the | |
| | Very truly yours Ferrell Prior |
| PLEASE SUBMIT COPIES OF ALL | |
| GEOPHYSICAL LOGS DIRECTLY TO: | (Sign Name) Well Operator |
| WEST VIRGINIA GEOLOGICAL AND | 304 Union Trust Fuilding |
| | ddress Street |
| P 0 ROY 879 | of Operator Parkersburg |
| MORGANTOWN, WEST VIRGINIA 2000 | City or Town |
| AC-304 - 292-6331 | West Virginia 26101 |
| | State |
| • | |
| | |
| ACCOTION 2 If we able to the second by | the Department of mines within said waried of tan Java from the receipt of |
| | the Department of mines, within said period of ten days from the receipt of ation, the department shall forthwith issue to the well operator a permit reciting |

MLANKET BOND

Signed by _

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

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

| PROPOSED WORK ORDER TO | XX _{TIRI} | Dunne | | | |
|--|---------------------------------|--|---|--|--|
| DRILLING CONTRACTOR: (If NAME Gene Stalnaker, | Known) | RESPONSIBLE A | FRACTURE-STIMULATE | | |
| ADDRESS Letter Gap, | · · | NAME Vearl Summers | | | |
| TELEPHONE 462-7092 | | ADDRESS BO | ox 1486, Parkersburg W | | |
| ESTIMATED DEPTH OF COMPI | | TELEPHONE 48 | 35-7419 | | |
| PROPOSED GEOLOGICAL FOR | MARION 5th Sand | ROTARY | CABLE TOOLS | | |
| TYPE OF WELL: OIL | MATION: | · · · · · · · · · · · · · · · · · · · | | | |
| OIL_ | GAS | COMB. STO | RAGE DISPOSAL | | |
| · | RECYCL | ING WATER | R FLOOD OTHER | | |
| TENTATIVE CASING PROGRAM | | | | | |
| CASING AND TUBING | USED FOR | | | | |
| SIZE | DRILLING | LEFT IN WELL | CEMENT FILL UP | | |
| 20 - 16 13 - 10 | 1 | | OR SACKS - CUBIC FT. | | |
| 9 - 5/8 | | | | | |
| 8 - 5/8 | 320 | | | | |
| 7 | 320 | 320 | To surface | | |
| 5 1/2 | | 2480 | | | |
| 4 ½ |) | 3450 | Cement 200 sacks | | |
| 3 | | | | | |
| 2 | | | | | |
| Liners | | | Perf. Bottom Perf. Top | | |
| , | | | Perf. Bottom | | |
| | | | | | |
| IS COAL BEING MINED IN THE | | | 'ERFEET? | | |
| SUBMIT FIVE (5) COPIES COF PLAT. | OF OG - 1, \$100.00 PERMIT | | E BOND AND PERMANENT COPY | | |
| FO DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED | FOG. 1 SHOWING OBJECT | NAL PERMIT NUMBER PY OF THE PLAT AN | AND PERFORMANCE BOND. ON ND THE ORIGINAL WELL RECORD | | |
| TO FRACTURE - STIMULATE: | | | | | |
| | CONT | | | | |
| OIL AND/OR GAS WELL ORIG | GINALLY DRILLED ON AND | 0.00 | (5) COPIES OG - 1, PERFORMANCE | | |
| | | 3011D. | | | |
| four (24) hours in advance. | vienn minery (90) days of co | mpletion for bond relea | se. Inspector to be notified twenty- | | |
| | | | , | | |
| | | | | | |
| The following waiver must be | completed by the coal opera | tor if the name: | be issued within ten days of receipt | | |
| ereof. | | ii wie permit is to | oe issued within ten days of receipt | | |
| AIVER: I the undersigned, Agent this lease have examined | forand place on our mine map | Coal Company, Ow | ner or Operator of the coal under | | |
| We the | Coal Company has | o no objection in the | | | |
| providing operator has com Code. | plied with all rules and regula | tions in Articles 4, 5, an | well being drilled at this location, d 7, Chapter 22 of the West Virginia | | |
| | | | | | |
| | | | No. Cod C | | |
| | | | For Coal Company | | |
| | | | Official Title | | |