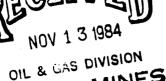


6-6 unnemed (0)

IV-35 (Rev 8-81) NOV 1 3 1984





OIL & GAS DIVISION State of Mest Hirginia
DEPT. OF MINES

BEDSTON Wil und Vas Division

| Date | November | 12, | 1984 | | | |
|------------|------------------|-------|---------------|--|--|--|
| Operator's | | | | | | |
| Well | No. $\frac{4}{}$ | 2021 | • | | | |
| Farm | William | Woods | Jr. #4 | | | |
| API N | ю.47 <u>-</u> | 053 | - 0342 | | | |

DEC 03 1964 (Continue on reverse side)

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

| WEIL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production / Undergrou | / Was nd Stora | te Disposal ge/ Deep | / b/ Shal | llow <u>x</u> /) |
|---|-------------------|-------------------------|--------------|------------------|
| LOCATION: Elevation: 733' Watershed | Flatfo | ot Creek | | <i>-</i> |
| District: Clendenin County Mason | | | Apple Gr | ove |
| | | | | |
| | | | | |
| CCMPANY UNION DRILLING, INC. | | | | Cement |
| ADDRESS P.O. Drawer 40, Buckhannon, WV 26201 | Casing | Used in | | fill up |
| DESIGNATED AGENT Joseph C. Vanzant, Jr. | Tubing | Drilling | in Well | Cu. ft. |
| ADDRESS P.O. Drawer 40, Buckhannon, WV 26201 | Size 20-16 | | | |
| SURFACE CWNER William Woods, Jr. | Cord. | | | |
| ADDRESS Gallipolis Ferry, WV 25515 | 13-10" | | | |
| MINERAL RIGHTS OWNER same | 9 5/8 | 636.69' | 636.69' | 251 cf |
| ADDRESS | 8 5/8 | | | |
| OIL AND GAS INSPECTOR FOR THIS WORK | 7 | 2039.85' | 718.95 | 58 cf |
| erry Tephabock ADDRESSRt#1,Box 101A, Ripley,WV | 5 1/2 | | | |
| PERMIT ISSUED 3/26/84 | 4 1/2 | | 3248.20' | 159 cf |
| DRILLING COMMENCED 10/22/84 | 3 | | | |
| DRILLING COMPLETED 10/28/84 | 2 | | | |
| IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON | Liners used | | | · |
| | e | Den | th 350 | o' feet |
| Depth of completed well 3330' feet | | | | |
| Water strata depth: Fresh 400' 770 feet; | | | | |
| Coal seam depths: none | | | | area? no |
| Coal seam deptils: none | 13 001 | r beng na | | <u> </u> |
| OPEN FLOW DATA - | | | | |
| Producing formation Upper & Lower Huron | | | | |
| Gas: Initial open flow show Mcf/d | | | | |
| Final open flow 239 Mcf/d | | | • | |
| Time of open flow between init | | | | |
| Static rock pressure 550 psig(surfac | | ement) afte | er 3 dayhou | mos shut in |
| (If applicable due to multiple completion | | | | |
| Second producing formation | | | | |
| Gas: Initial open flow Mcf/d | | | | |
| Final open flowMcf/d | | | | |
| Time of open flow between init | | | | |
| Static rock pressure psig(surface | measure | ment) after | r hou | urs shut in |

DETAILS OF PERFORMTED INTERVALS, FRACTURING OR STIPLLATING, PHYSICAL CHANGE, ETC.

Nowsco - 1 stage Foam Frac - 11/4/84

2832/3147 - Upper Huron - 60,000# sand, 420 Bbls water and 830,000 scf nitrogen Lower Huron

WELL LOG

| • | W | | | | |
|---|---|---|---|--|--|
| FORMATION COLOR HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fresh and salt water, coal, oil and gas | | |
| Sand & Shale Berea Top od Devonian Upper Huron Shale Lower Huron Shale Angola Shale | 0 1967 1995 2830 2877 3154 | 1967 1995 2841 3154 3270 3330' | 1/2" stream water @400' 1/2" stream water @770' 1" stream salt water @1278' 1" stream salt water @1530' T.D. gas show | | |
| from 66 100 . ci, 1/44 1/48 | | | | | |
| | | | | | |
| ************************************** | - | | | | |
| ·• • | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| ;· | | | | | |

(Attach separate sheets as necessary)

UNION IRILLING, INC

By: \ oseda felley

Date: Joseph C. Pettey, Vice President of Production

910

11/12/84

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

% fit we w

FILE COPY



| 1) Date: Febr | uary 24 | . 19 84 |
|------------------------|------------|---------|
| 2) Operator's Well No. | 2021 - 4 | |
| 3) API Well No. | 47 - 053 - | 02/2 |

County

Permit

State

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

| | | | | | _ | | | EL WORK I ERWIT | - | | |
|-------------|-----------------|--------------|---|----------------|--------------|-----------|------------------------|--------------------------|-------------------------|---------------------|------------------|
| 4) | WELL TY | PE: A C | Oil | / G | as X | / | , | • | | | |
| | | В (| If "Gas", | Productio | n <u>X</u> | | / Undergroun | d storage | / Deen | / Shallow | X |
| 5) | LOCATIO | N: El | evation: _ | 733. | 53' | | Watershed: | Flatfoot Cre | ek | Snallow | |
| | | Di | strict:C | lender | in_ | | | Mason | | Apple Gr | ove |
| 6) | WELL OP | ERATOR | Union | DRill | ing. | Inc. | | | DAGENTJOSE | | |
| | Address | s <u>Po</u> | st Off | ice Dr | awer | 40 | | Address | Post Office | | |
| | | _Bu | ckhann | on, W | 7 2 | 6201 | | | Buckhannon, | | |
| 8) | OIL & GA | S INSPEC | TOR TO | BE NOTI | FIED | | | 9) DRILLING C | | 202 | <u> </u> |
| | Name | | y Teph | | | | | Name Uni | on Drilling, | Inc. | |
| | Address | | - | , Box | | | · | Address | Post Office | | 0 |
| | | R | <u>ipley,</u> | | <u> 2527</u> | 1 | | | Buckhannon, | WV 262 | 01 |
| 10) | PROPOSE | D WELL | WORK: | Drill | X | _/ Dri | ll deeper | / Redrill | / Stimulate_5 | X TO A TO | वत्या का व्य |
| | | | | Plug of | ff old | | • | orate new formation | / Stimulate | 力計 (公長 | ELL WILL |
| | | | | | | | in well (specify) | | | عادي | - " 🖏 |
| 11) | GEOLOGI | CAL TAR | GET FOR | | | | n Shale | | | | 07 1084 |
| | 12) Estima | ated depth o | of complet | ed well, | <u>35</u> | 00 | fee | t | | - (2.15) | |
| | 13) Appro | ximate trat | a depths: | Fresh, _ | | ? | feet; sa | lt? | feet. | 20 2 2 | AS DIVISION |
| | 14) Appro | ximate coa | l seam dep | ths: | | ? | Is c | oal being mined in the | | OIL & G/ | X |
| 15) | CASING A | ND TUBI | NG PRO | GRAM | | | | | L. Ics | DEPT.ºc | OF MINE |
| | SING OR | 11 . | SPEC | IFICATIONS | S | | FOOTAGE | INTERVALS | CEMENT FILL-UP | il near | |
| TU | BING TYPE | Size | Grade | Weight per ft. | New | Used | For drilling | Left in well | OR SACKS | PACE | LERS |
| Cone | ductor | 11-3/4 | 1 | 32 | χ | - | 30' | 30 ' | (Cubic feet) | | |
| Fresi | h water | | | | | | | 30 | | Kinds | |
| Coal | | | | | | | 922' | 9321 | | | |
| Inter | mediate | 8-5/ | 3 | 23 | Х | | 1000 | 1000 | to surface | Sizes | |
| Prod | luction | 4-1/ | 2 J | 101/5 | X | - | 3500' | 3500' | to surface as required | WEAT | |
| Tubi | ng | / | | | | | 3300 | 3300 | | Depths set | , |
| Liner | rs | | | | | | | | by rul | 1500 | <u>/</u> |
| | | | *************************************** | | | | | | | Perforations: | |
| | | | | | | | | | | Тор | Bottom |
| | | | | | | | | | | | |
| | | <u> </u> | *************************************** | | | | 1 | | | Щ | |
| | | * | | | | | | | | | |
| | | | | | | | OFFICE USE | ONLV | | | |
| | | | | | | | DRILLING PH | | | | |
| | | . 7 | 053-03 | | | | | 3444111 | | _ | |
| 'ern | nit number | 4/- | 053-03 | 142 | | | | | March 2 | .6, | ₁₉ 84 |
| ٠ <u>.</u> | | | •• | | | _ | | | Dat | :e | |
| nis wire | permit cover | ing the we | ll operato | r and well | locatio | n shown | below is evidence | of permission grante | d to drill in accordan | ce with the per- | tinent legal re- |
| 0. 8 | B) Prior to the | e construct | ion of roa | ds. locatio | ns and | nits for | anv nermitted work | Durication must be give | rom to the District Oil | | |
| istri | ict oil and ga | s inspector | 24 hours | before ac | tual per | mitted v | vork has commence | ed.) | n operator or his con | tractor shall no | tify the proper |
| he p | permitted wo | rk is as des | scribed in | the Notice | and A | pplicatio | n, plat, and reclam | ation plan, subject to | any modifications | | tat t |
| | | | | | | | ar, prais, and rectain | action plant, subject to | any mounications a | na conditions sp | becified on the |
| erm | it expires | Mar | ch 26, | 1986 | | | unless wel | l work is commenced | prior to that date and | prosecuted with | due diligence |
| | | | | | | | | | | procedural with | auc amgence. |
| | ond: | Agent: | | lat: | Casing | , | Fee | | | | |
|) Si | THAME! | BLAN | | nn | | | 14- | | | | |
| L_ | | | | 1111 | rnf | 1 5 | 27 | | | | |
| | | | | | | | | | 12 | | |
| ~~ | F. 1/2 | _ | | | | | | Admir | nistrator, Office of O | il and Gas | |
| | H: Kaan | a | his | | | •••• | | | , | | |