

Division of Energy

INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

26-Apr-90 API # 47- 17-03813

JM 3 0 State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

| rarm name: | DOAK, DUAN | <u> </u> | Operator | Well No.: 1 | H. PRATT | #9 |
|--|--|--|--|--|-------------------|-----------------------------------|
| LOCATION: | Elevation: | 783.00 Qua | adrangle: C | ENTER POINT | | |
| | District: Latitude: Longitude | GRANT 14300 Feet So 8875 Feet W | outh of 39 | ounty: DODDI Deg. 25Min Deg. 42 Min | . 0 Sec. | • |
| P. | NZOIL PRODUC O. BOX 5519 NNA, WV 26: | | & | Used in | | Cement Fill Up Cu. Ft. |
| | MIKE UNDERWO | | Size 13-3/8" 8-5/8" | 73 ° 1022 ° | | to surface |
| Verbal Plug Permission | ging granted on: | | 4-1/2" | 4988" | 4988* | 600 sks. |
| Rotary X Total Depth Fresh water | Cable (feet) 5 depths (ft | Rig 054 21 [†] , 93 [†] | | | | |
| Salt water | depths (ft) | N/A | | | | |
| Is coal bei Coal Depths | | area (Y/N)?N | | | | |
| OPEN FLOW D | ATA | | | | | , |
| Gas: 1 F T | nitial open inal open fi ime of open | flow Model M | CF/d Oil: In CF/d F: initial and | nitial open inal open fl d final test | flow low ts | Bbl/d Bbl/d Hours |
| Gas: I F T | producing a nitial open inal open fl ime of open rock Pressa | flow MC | CF/d Fi initial and | Pay zone on the pay zone of th | flow low ts | Bbl/d Bbl/d Hours |
| INTERVALS, | FRACTURING | FORM PUT THE OR STIMULATION MATIC DETAILED | NG, PHYSICA | AL CHANGE. | ETC. 2). | THE WELL |

By: Curtis A. Lucas, Adv. Engineering Tech.
Date: July 26, 1990

For: PENNZOIL PRODUCTS COMPANY

Perforate: 4854-4862' - 16 holes

Fracture: w/500 gal. 15% HCl, 685 Bbls. gelled H_2O , 10,500# 80/100 sand, 25,000# 20/40 sand

| Sand & Shale | 0 - 1068 |
|----------------|--------------------|
| Shale | 1068 - 1295 |
| Sand · | 1295 - 1345 |
| Shale | 1345 - 1407 |
| Sand | 1407 - 1428 |
| Shale | 1428 - 1505 |
| Sand | 1505 - 1542 |
| Shale | 1542 - 1602 |
| Sand | 1602 - 1653 |
| Shale | 1653 - 1718 |
| Big Lime | 1718 - 1821 |
| Big Injun | 1821 - 1942 |
| Shale | 1942 - 2118 |
| Weir | 2118 - 2190 |
| Shale | 2190 - 2322 |
| Berea | 2322 - 2344 |
| Shale | 2344 - 2532 |
| Gordon | 2532 - 2566 |
| Shale | 2566 - 4852 |
| Benson | 4852 - 4863 |
| Shale | 4863 - 5054 |
| Francis Daniel | |
| Total Depth | 5054 |

FORM WW-2B

Page 3 of 4

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

| 1) | Well Ope | erator: | Pennzoil I | 673 Products Com | pany 374 | 50 (3) | 286 |
|---|--|-----------|------------|---|-----------------|-------------------------|---------------|
| 2) | Operator | s's Well | Number: | HARRISON | PRATT NO. 9 | 3) Ele | vation: 783' |
| 4) | | | | or Gas | | | |
| | | (b) | If Gas: | Production Deep | n_X/ Undergr | ound Storage Shallow | |
| 5) | Proposed | l Target | Formation | n(s):Bens | son435 | | |
| 6) | Proposed Total Depth: 5000 feet | | | | | | |
| 7) | Approxim | mate fres | h water s | trata dept | hs: N/A | 4 35 6 | |
| 8) | Approxim | mate salt | water de | pths: | N/A / | 599, 300 | 0, 10 |
| 9) | Approxim | mate coal | seam dep | ths: 476 | | 9, K | |
| 10) | Does lar | nd contai | n coal se | ams tribut | ary to acti | ්ර ve mine? Ye | R No X |
| 11) | Proposed | i Well Wo | rk: Drill | . and stimula | ite New W. | | |
| 12) | | | | | NG PROGRAM | | |
| TYPE | | S | | | FOOTAGE IN | TERVALS | CEMENT |
| | | Size | Grade | Weight | For drilling | Left in well | Fill-up |
| Condu | ictor | | | 1 C C C C C C C C C C C C C C C C C C C | | | 38 CSP1211. 3 |
| Frest | n Water | 8-5/8" | H-40 | 24# | 1025' | 1025' | To surface |
| Coal | 41-11-11-11-11-11-11-11-11-11-11-11-11-1 | | | | | | 3805K1811.2. |
| Inter | mediate | | | | | | |
| Produ | ction | 4-1/2** | K-55 | 11.6# | 5000' | 5000' | 50 Sks. |
| Tubir | ng | | | | | | 38CSR18-11. |
| Liner | s | | | | | | |
| PACKE | | | | | | | |
| | | ths set | | | | | |
| 426 | | F | og Diviso | n of Oil a | nd Gas Use | Only | - / |
| Fee(s) paid: Well Work Permit Reclamation Fund WPCP | | | | | | | |
| S | Plat J WW-9 WW-2B Bond Switz Blindel & Agent | | | | | | |

Page 1 of 4 Form WW2-A (09/87) File Copy

| _ MEGELVEIN | 1 |) |
|---------------------------------|---|---|
| APR 09 100 | 2 |) |
| APR 09 1990 DEPARTMENT OF 8 CAS | 3 |) |

Date: April 6, 1990

Operator's well number

HARRISON PRATT NO. 9

API Well No: 47 - 017 - 3813

State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

| 4) Surface Owner(s) to be served: (a) Name Duane Doak | 5) (a) Coal Operator: |
|--|---------------------------------------|
| Address Rt. 2, Box 285-A | Name No Commercial Coal |
| Address Kt. 2, box 203-A | Address |
| West Union, W. Va. 26456 (b) Name Mgt. Hayes %Robert Hayes | |
| 100/ Name Mgt. Hayes & Kobert Hayes | (b) Coal Owner(s) with Declaration |
| Address 1004 - 32nd Street | Name |
| Vienna, W. Va. 26105 | Address |
| (c) Name | |
| Address | Name |
| | Address |
| 6) Inspector <u>Mike Underwood</u> | (c) Coal Lessee with Declaration |
| Address Rt. 2, Box 135 | Name |
| Salem, W. Va. 26426 | Name |
| Telephone (304)- 782-1043 | Address |
| | |
| TO THE PERSON(S) NAMED A | BOVE TAKE NOTICE THAT: |
| | |
| Included is the lease or leases or | r other continuing contract or |
| conclacts by which I hold the right to | extract oil and cae op |
| included is the information require | red by Chanter 22p Article 1 |
| section o(d) or the Code of West Virgi: | nia (see page 2) |
| L Certify that as required under (| Chanter 228 of the Wort Vizzinia cal- |
| I have between copies of this notice and | d application a logation also |
| accompanying documents pages I through | 4 on the above named parties have |
| Personal Service (Affidavit a | attached) |
| X Certified Mail (Postmarked po | ostal receipt attached) |
| Publication (Notice of Public | ration attached) |
| | |
| I have read and understand Chapter | r 22B and 38 CSR 11-18, and I agree |
| to the terms and conditions of any per | nit issued under this application |
| I certify under penalty of law that | at I have personally examined and am |
| familiar with the information submitted | on this application form and am |
| attachments, and that based on my inqui | iry of those individuals immediate |
| responsible for obtaining the informati | ion I believe that the information |
| is true, accurate, and complete. | ion, I believe that the information |
| I am aware that there are signific | cant penalties for submitting false |
| information, including the possibility | dof fine and invited to |
| Well Operator/ | of the and imprisonment. |
| By: Jin Il | |
| | Timothy P. Roush |
| | ervisor, Surveying/Mapping |
| | Box 5519 nna, W. Va. 26105-5519 |
| | -422-6565 |
| Subscribed and sworn before me this 6t | |
| | h day of, 19 <u>90</u> |
| - Alla / Darlas | Notary Public |
| My commission expires (Anc | -10.1997 Motaly Public |
| | |