

OIL & GAS DIVISION PT. OF MINES April 12, 1983

IV-35 (Rev 8-81)

Operator's Sinie of Mesi Birginia Well No. #1

Bepartment of Mines Gil und Gas Zivision Farm W. G. Sandy 6319 API No. 47 - 085

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

| WEIL TYPE: $0il_{XX}$ / Gas_{XX} / Liquid Injection (If "Gas," Production_X / Underground | / Wast ind Storag | re Disposal ge/ Deep | Sha | Llow_XX/) |
|---|----------------------|-------------------------|---------------|-----------------------|
| LOCATION: Elevation: 990' Watershed No | utter Fork | | | |
| District: Grant County Ritch | | | | 71/21 |
| | | • | | |
| | | | | |
| COMPANY Petroleum Development Corporation | 1 | | | Cement |
| ADDRESS P.O. Box 26, Bridgeport, WV 26330 | Caşing | Used in | | fill up |
| DESIGNATED AGENT Michael L. Edwards | Tubing | Drilling | in Well | Cu. ft. |
| ADDRESS P.O. Box 26, Bridgeport, WV 26330 | Size | | | |
| SURFACE OWNER W. G. Sandy et ux | 20-16 Cond. | | | Cement to |
| ADDRESS 917 W. Renette St., El Cagon, CA 92020 | 13-10" | 30' | 30' | Cement to surface |
| MINERAL RIGHTS OWNER W. G. Sandy et ux | 9 5/8 | | | |
| ADDRESS Same as above. | 8 5/8 | , | | |
| OIL AND GAS INSPECTOR FOR THIS WORK Samuel | 75/8 | 1158.5 | 1158.5 | 350 sks. |
| Hersman ADDRESS Smithville, WV 26178 | 5 1/2 | | | |
| PERMIT ISSUED 3/15/83 | 4 1/2 | 4226 | 4226 | 275 sks. |
| DRILLING COMMENCED 3/31/83 | 3 | | | |
| DRILLING COMPLETED 4/07/83 | 2 | | | |
| IF APPLICABLE: PLUGGING OF DRY HOLE ON | | | | |
| CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED | Liners used | | | |
| ON | | | | |
| GEOLOGICAL TARGET FORMATION Marcellus Shale | | Dep | th 550 | 0 feet |
| Depth of completed well 4300 feet | Rotary> | x / Cabl | e Tools_ | |
| Water strata depth: Fresh N/A feet; | Salt 18 | 393 feet | : | |
| Coal seam depths: N/A | Is coal | being min | ed in the | area? No |
| OBEN ET CLI DAMA | | | | |
| Producing formation Devonian Shale | D: | av zone det | th 3437- | 4152 feet |
| Gas: Initial open flow 152 Mcf/d | Oil: Ir | nitial open | flow C | 31\ Bb1/c |
| Final open flow Mcf/d | | | | |
| Time of open flow between init | | | | |
| Static rock pressure 520 psig(surface | | | | |
| (If applicable due to multiple completion | | | | 4 By . |
| Second producing formation | | av zone der | oth | feet |
| Gas: Initial open flow Mcf/d | | | | |
| Final open flow Mcf/d | | | | |
| Time of open flow between init | | | | |
| Static rock pressure psig(surface | | | | distriction and after |

FORM IV-35 (KD/ERSE)

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

Huren

 $(N_2 + CO_2)$ <u>lst Stage</u> 22 perfs (3437-4152) N_2 - 620,000 scf CO_2 - 40,000 lbs. Acid - 500 gal.

WELL LOG

| Service Servic | | | |
|--|---|---|---|
| FORMATION COLOR HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fres and salt water, coal, oil and ga |
| K.B G.L. Sand, shale, red rock Big Lime Big Injun Squaw Sand, shale Weir Sand, shale Sunbury Shale Berea Sand, shale Gantz Sand, shale Gordon Stray Sand, shale Gordon Sand, shale Huron | 0 10 1750 1844 1946 1983 2138 2216 2313 2322 2338 2432 2463 2704 2718 2733 2750 3398 | 10 1750 1844 1946 1983 2138 2216 2313 2322 2338 2432 2463 2704 2718 2733 2750 3398 4300 T.D. | Hole damp @ 1893' Gas check @ 2873 30/10 thru 2" wing H20 231 mcf |
| | | | |
| | | | |

(Attach separate sheets as necessary)

| Petroleum I | Develop | ment Cor | poration |
|-------------|---------|----------|----------|
| Well Opera | tor | // | |
| av: M | (2 | Nur | 2 |
| | | | |

Date: July 11, 1983

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 inval, encountered in the drilling of a well."



| 1) | Date: | 1,000 M. 120 1 A | <u> </u> | | , 19 |
|----|------------------------|------------------|----------|----|------|
| 2) | Operator's Well No. | | | ē1 | |
| | W CII 140 | | ····· | | |
| | | | | | |

| 2). | | | | | | | 2) | Operat Well N | lo | - F. | | |
|--|--|---|--|--|---|--|--|------------------|---|---------------------------------|--|---------------------|
| ILLING CONT | RACTOR: | | | | | The state of the s | 3) | API W | Vell No. 47 State | | ounty | Perm |
| | | | D | EPAR1 | | TE OF WEST VIR OF MINES, OIL A | | VISION | | - | | . 01111 |
| | | | | | | s well permit | , | | | | | |
| | | salita a lite. | | | | | | | | | | |
| WELL TYPE | | | _/ Gas _ oduction _ | | | / Underground sta | | | . D | , . | • . | |
| LOCATION: | | tion: | | ļ. ¹ | h-sh | / Underground sto Watershed: | rage Liter for | - M | / Deep | / S | hallow | /) |
| WELLOPER | 1915-1816 | Sepreta an en en entre de | <u>Carpent</u> | ir dazes | 522-23111 - 211 | | | 7.1.1 | Quadrangle | 127.0 | <u> 12 ta 75 </u> | |
| WELL OPER Address | Setting 40s - 50s | 936 I.E., | 103.3 | lest: | Stymo | 11) ha- ha- | DESIGNA Address | | GENT | | | 7-8-8 |
| | 11,401 | <u>Kaperti.</u> | , 4°V | 263 | | | The Table 1 | | irideopr | | 2000 | |
| OIL & GAS ROYALTY O | WNER _ | . G. S | andyei | BE W | K. | 12) | COALOP | FRATO |)R | | | |
| Address | -9 | | <u> Konet</u> | | | | Address | | | | | |
| Acreage | <u></u> | - 5 | m. Cal | E. J. J. S. S | | | COALOW | VAIED/C | WITH DECL | | <u> </u> | |
| SURFACE O | | | | | | | | |) WITH DECL | | | .D: |
| Address | - 2 | <u>17 E.</u> 1 Case | Assett m. Col | | | <u></u> | Address | | | | | |
| Acreage | - 3 | | ration retained | | | | Name | ********* | | | | |
| FIELD SALE | | | | | 7 | | Address | | | | | |
| Address | - | | | <u>.</u> | | | 00.41.4.7 | | | | · | |
| OIL & GAS I | NSPECTO | R TO BE | NOTIFIE | ED. | | 14) | | | ITH DECLAR | | N RECORD: | |
| Name | | 2006. G. Boz | | " (D LIGHT) | | | Address | | | | | |
| Address | | elthyl | | W 24 | 1 46 Ph 95 | | | | er e ne de englise. Recepta | la españa. Na españa a | | |
| | | | | | | | | | | | | |
| PROPOSED | | Drill | XX _ | Drill c | leeper | | | Fractur | e or stimulate_ | | | |
| | WORK: | DrillPlug off Other ph | old form | Drill o | leeper | / Perforate ne | w formation | <u> </u> | <u>/</u> | | | |
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proper district oil and gas inspector 24 hours before actual permitted work has commenced.) Permit expires Bond: unless drilling is commenced prior to that date and prosecuted with due diligence. Plat: Agent: Fee Casing

Administrator, Office of Oil and Gas