



( \* ) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. WILSONCOAL A-20-R, DGN  
 DRAWING NO. WILSON COAL A-20-R  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1:2500  
 PROVEN SOURCE OF ELEVATION SPOT ELEV. USGS (1424') 2400' EAST OF LOCATION SITE

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.  
 (SIGNED) [Signature]  
 R.P.E. \_\_\_\_\_ L.L.S. 647

PLACE SEAL HERE

|  |  |   |  |
|--|--|---|--|
| <b>STATE OF WEST VIRGINIA</b><br>DIVISION OF ENVIRONMENTAL PROTECTION<br><b>OIL AND GAS DIVISION</b>   |  | DATE <u>FEBRUARY</u> , 19 <u>98</u><br>OPERATOR'S WELL NO. <u>A-20-R</u><br>API WELL NO. <u>47 099 01938</u><br>STATE <u>47</u> COUNTY <u>099</u> PERMIT <u>01938</u> |  |
| WELL TYPE: OIL <u>GAS</u> LIQUID INJECTION <u>X</u> WASTE DISPOSAL _____<br>(IF "GAS,") PRODUCTION <u>X</u> STORAGE _____ DEEP <u>X</u> SHALLOW _____  |  | COUNTY NAME <u>WAYNE</u>  |  |
| LOCATION: ELEVATION <u>1475'</u> WATER SHED <u>OLD FORK OF JENNIES CREEK</u><br>DISTRICT <u>LINCOLN</u> COUNTY <u>WAYNE</u><br>QUADRANGLE <u>WILSONDALE, WV 7-5'</u>   |  | COUNTY NAME <u>WAYNE</u>  |  |
| SURFACE OWNER <u>STATE OF WEST VIRGINIA</u> ACREAGE <u>635.2</u><br>OIL & GAS ROYALTY OWNER <u>CABOT OIL &amp; GAS CORPORATION</u> LEASE ACREAGE <u>635.2</u><br>LEASE NO. _____                                     |  | COUNTY NAME <u>WAYNE</u>  |  |
| PROPOSED WORK: DRILL <u>X</u> CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE <u>X</u> PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ |  | COUNTY NAME <u>WAYNE</u>  |  |
| PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____<br>TARGET FORMATION <u>BIG SIX</u> ESTIMATED DEPTH <u>4830'</u>  |  | COUNTY NAME <u>WAYNE</u>  |  |
| WELL OPERATOR <u>CABOT OIL &amp; GAS CORPORATION</u> DESIGNATED AGENT <u>JOHN ABSHIRE</u><br>ADDRESS <u>PO BOX 260 LICK CK. RD. DANVILLE, WV 25053</u> ADDRESS <u>SAME</u>   |  | COUNTY NAME <u>WAYNE</u>  |  |

WR-35

Date: 4-Jan-99  
API # 47-099-01938

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work

Farm name: Cabwaylingo State Park Operator Well No.: Wilson Coal A-20R

LOCATION: Elevation: 1,475' Quadrangle: Wilsondale  
District: Lincoln County: Wayne  
Latitude: 12,450 feet South of 37 DEG. 57 MIN. 30 SEC.  
Longitude: 4,750 feet West of 82 DEG. 20 MIN. 0 SEC.

Company: Cabot Oil & Gas Corporation  
400 Fairway Drive: Suite 400  
Coraopolis, PA 15108-4308

Agent: John Abshire  
Inspector: David Belcher  
Permit Issued: 6/9/98  
Well Work Commenced: 10/22/98  
Well Work Completed: 11/17/98  
Verbal Plugging  
Permission granted on:  
Rotary X Cable      Rig       
Total Depth (feet) 4099'  
Fresh Water Depths (ft) 83'  
Salt Water Depths (ft) 1357'

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 16"                  | 30'              | 30'          |                        |
| 9-5/8"               | 747.45'          | 747.45'      | 230 sks Class "A"      |
| 7"                   | 2213.20'         | 2213.20'     | 100 sks Class "A"      |
| 4-1/2"               | 4035.35'         | 1870.35'     | 125 sks RFC            |
|                      |                  |              |                        |

Is coal being mined in area (Y / N)?       
Coal Depths (ft) 230', 571'-574'

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 3428' - 3613'  
Gas: Initial open flow      MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 490 comm MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock pressure 290 psig (surface pressure after 48 Hours)

Second producing formation Injun Pay zone depth (ft) 2072' - 2083'  
Gas: Initial open flow      MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 490 comm MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 4 Hours  
Static rock pressure 290 psig (surface pressure after 48 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: CABOT OIL & GAS CORPORATION  
By: Ray Prudnick Jr.  
Date: 1-12-99

JAN 14 1999

JAN 25 1999

MAY 1938

## OPEN FLOW DATA

Perf'd Devonian Shale from 3428'-3613'. Broke down @ 1209 psi with 250 gals of 7-1/2% HCl acid. Displaced with N<sub>2</sub>.  
Frac'd with 1.1 million scf N<sub>2</sub> @ 64,000 scfm. ISIP: 750 psi.

Perf'd Injun from 2072'-2083'. Broke down @ 556 psi with 250 gals 15% HCl acid. Displaced with 13 bbls of fluid.  
Frac'd with 175 bbls of fluid, 247,000 scf N<sub>2</sub> and 43,000# sand. ATP: 1856 psi. MTP: 1934 psi. ATR: 20 bpm. ISIP: 1914 psi.

| FORMATION   | TOP  | BOTTOM    | REMARKS |
|-------------|------|-----------|---------|
| Salt Sand   | 0    | 1436      |         |
| Shale       | 1436 | 1477      |         |
| Maxton      | 1477 | 1845      |         |
| Little Lime | 1845 | 1892      |         |
| Big Lime    | 1892 | 2070      |         |
| Injun       | 2070 | 2091      |         |
| Shale       | 2091 | 2630      |         |
| Berea       | 2630 | 2722      |         |
| Shale       | 2722 | 3965      |         |
| Corniferous | 3965 | 4099 - TD |         |