

LATITUDE 37° 20' 00"

LONGITUDE 81° 45' 00"

8" POPLAR
N 175° 48' W
N 45° 41' E
N 75° 37' W

DOUBLE POPLAR

PROPOSED POND CREEK
108-107-031

| | |
|--|---------------|
| REFERENCES | SCALE 1"=100' |
| WELL COORDINATES WV STATE PLANE SOUTH ZONE NAD 1927 N. 113404.56 E. 1772371.66 | |

TEE Engineering Company, Inc.

120 Owens Hill Court
Lexington, KY 40509
(859) 263-5350
Fax (859) 263-5345

P.O. Box 219
Summit, KY 41639
(606) 478-9024
Fax (606) 478-9019

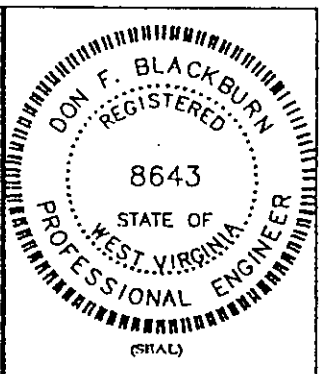
Geomat Operating Company, Inc.
Well No. Pond Creek 108-107-031

FILE NO. 1883-08
DRAWING NO. WELL 31 PLAT
SCALE: 1" = 2,000'
MIN. DEGREE OF ACCURACY 1:2,500
PROVEN SOURCE OF ELEVATION
GPS STATION TEC-1 (ELEV. 2406.60)

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 MINES.

Don F. Blackburn
(SIGNATURE)

R.P.E. 8643 R.P.S.



STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

DATE AUGUST 4, 2003
OPERATOR'S WELL NO. POND CREEK 108-107-031

API WELL NO. 47 STATE 047 COUNTY 01831-C PERMIT

WELL TYPE: OIL GAS CBM LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 2,323.75 NORTHING 113404.56 EASTING 1772371.66
DISTRICT SANDY RIVER WATER SHED HITE FORK OF BRADSHAW CREEK
QUADRANGLE BRADSHAW COUNTY McDOWELL

SURFACE OWNER PLUM CREEK TIMBERLANDS L.P. ACREAGE 9,907.37
CBM ROYALTY OWNER PLUM CREEK TIMBERLANDS L.P. LEASE ACREAGE 9,907.37
LEASE NO. RECORDING IN PROGRESS

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION NEW RIVER AND POCAHONTAS COALS ESTIMATED DEPTH 2,242
WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT KERRY HILL
ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 3206 ADDRESS 330 HARPER PARK DRIVE SUITE A
BIRMINGHAM, ALABAMA 35244 BECKLEY, WV 25801

Mcdow 1831-C

Latitude

37 20

Longitude

81 45

Temp Plot

Topo Location

7.5' Loc. _____ 15' Loc. _____
(calc.)

Company Geo met

Farm Plum CK Timber

15' Quad _____
(sec.)

7.5' Quad Bradshaw

District _____

WELL LOCATION PLAT

County 47 Permit 1831

RECEIVED
Office of Oil & Gas
JAN 09 2004
WV Department of
Environmental Protection

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

MP

Well Operator's Report of Well Work

FARM NAME: Plum Creek Timberlands OPERATOR WELL NO.: PC 108-107-031

LOCATION:

Elevation: 2,323.76' Quadrangle: Bradshaw

District: Sandy River County: McDowell
Latitude: 9,481 Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: 8,935 Feet West of 81 Deg. 45 Min. 00 Sec.

| Company: <u>GeoMet Operating Company</u> | Casing & Tubing | Used in Drilling | Left in Well | Cement fill up Cu. Ft. |
|---|-----------------|------------------|--------------|-------------------------|
| Address: <u>5336 Stadium Trace Parkway, Suite 206 Birmingham, Alabama 35244</u> | <u>13-3/8"</u> | <u>17'</u> | <u>17'</u> | |
| Agent: <u>Gregg Cleary</u> | | | | |
| Inspector: <u>Carlos Hively</u> | <u>7"</u> | <u>313'</u> | <u>313'</u> | <u>114 / Pumped 90</u> |
| Date Permit Issued: | | | | |
| Date Well Work Commenced: <u>October 2, 2003</u> | <u>4-1/2"</u> | <u>2078'</u> | <u>2078'</u> | <u>213 / Pumped 280</u> |
| Date Well Work Completed: <u>October 23, 2003</u> | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: <u>Sept. 5, 2003</u> | | | | |
| Rotary <u>XXXX</u> Cable <u> </u> Rig <u> </u> | | | | |
| Total Depth (feet): <u>2090'</u> | | | | |
| Fresh Water Depth (feet): <u>Unknown</u> | | | | |
| Salt Water Depth (feet): <u>Unknown</u> | | | | |
| Is coal being mined in area (N/Y)? <u>N</u> | | | | |

Coal Depths (feet): 350, 379, 423, 424, 427, 763, 764, 751, 885, 886, 959, 960, 989, 1021, 1063, 1320, 1321, 1338, 1385, 1387, 1397, 1492, 1583, 1619, 1644, 1645, 1682, 1814, 1838, 1946, 1956, 1973, 1974, 2071.

OPEN FLOW DATA

Producing formation All Zones Commingled Pay zone depth (ft) _____
Gas: Initial Open Flow N/A MCF/d Oil: Initial Open Flow _____ Bbl/d
Final Open Flow N/A MCF/d Final Open Flow _____ Bbl/d
Time of Open Flow between initial and final tests N/A Hours
Static Rock Pressure 8 psig (surface pressure) after 96 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.

SIGNED: [Signature]
BY: Dundrea Smith
DATE: 1-7-04

McDowell, 1831

FEB 8 2004

**GeoMet Operating Company, Inc.
Perforation and Frac Volume Specification**

Well Name Pond Creek 031 PBTB 2100'

Zone and Perforation Table

| Frac Stage 1 Interval | | | Ball Out | Bridge Plug Set @ | Est Sand Weight | Actual Sand Weight |
|--------------------------|---------|------|----------|----------------------|--------------------|-----------------------|
| | 1972 | 1974 | | | | |
| N2 Scf | 191,000 | | 16/30 | | 15,000 | 15,000 |
| Acid | 50 | | | | | |
| Gel Volume | 6,888 | | | | | |
| ISIP | 4,216 | | | | | |
| ATP | 2,418 | | | | | |
| AIR | 10.5 | BPM | | | | |
| Stage 2 Interval | 1,945 | 1948 | | | | |
| N2 Scf | 123,000 | | 12/20 | | | |
| Acid | 100 | | | | | |
| Gel Volume | 4,212 | | | | | |
| ISIP | 4,200 | | | | | |
| ATP | 3,000 | | | | | |
| AIR | 10.5 | BPM | | | | |
| Stage 3 Interval | 1,812 | 1815 | | | | |
| N2 Scf | 150,000 | | 12/20 | | | |
| Acid | 50 | | | | | |
| Gel Volume | 5,502 | | | | | |
| ISIP | 4,000 | | | | | |
| ATP | 2,942 | | | | | |
| AIR | 11.5 | BPM | | | | |
| Stage 4 Interval | 1,681 | 1683 | | | | |
| N2 Scf | 319,000 | | 20/40 | | | |
| Acid | 50 | | | | | |
| Gel Volume | 8,442 | | | | | |
| ISIP | 1,571 | | | | | |
| ATP | 2,784 | | | | | |
| AIR | 14 | BPM | | | | |
| Stage 5 Interval | 1,643 | 1645 | | | | |
| N2 Scf | 300,000 | | 16/30 | | | |
| Acid | 100 | | | | | |
| Gel Volume | 7,812 | | | | | |
| ISIP | 1,755 | | | | | |
| ATP | 2,714 | | | | | |
| AIR | 10.5 | BPM | | | | |

McDow. 1831

Well Name Pond Creek 031

PBTD

2100'

Zone and Perforation Table

| | Ball Out | Bridge Plug Set @ | Est Sand Weight | Actual Sand Weight |
|-------------------|----------|-------------------|-----------------|--------------------|
| Stage 6 Interval | 1,617 | 1,619 | | |
| N2 Scf | 247,617 | | 18,000 | 18,300 |
| Acid | 50 | | | |
| Gel Volume | 6,510 | | | |
| ISIP | 1,518 | | | |
| ATP | 2,065 | | | |
| AIR | 11.2 | BPM | | |
| | | 16/30 | | |
| Stage 7 Interval | 1,582 | 1,584 | 20,000 | 20,300 |
| N2 Scf | 308,000 | | | |
| Acid | 100 | | | |
| Gel Volume | 7,644 | | | |
| ISIP | 1,630 | | | |
| ATP | 3,164 | | | |
| AIR | 10.1 | BPM | | |
| | | 16/30 | | |
| Stage 8 Interval | 1,384 | 1,387 | 20,000 | 20,300 |
| N2 Scf | 181,000 | | | |
| Acid | 100 | | | |
| Gel Volume | 6,930 | | | |
| ISIP | 1,195 | | | |
| ATP | 2,236 | | | |
| AIR | 12.0 | BPM | | |
| | | 16/30 | | |
| Stage 9 Interval | 1,320 | 1,322 | 25,000 | 25,700 |
| N2 Scf | 262,000 | | | |
| Acid | 50 | | | |
| Gel Volume | 7,854 | | | |
| ISIP | 1,704 | | | |
| ATP | 2,856 | | | |
| AIR | 11.2 | BPM | | |
| | | 16/30 | | |
| Stage 10 Interval | | | | |
| N2 Scf | | | | |
| Acid | | | | |
| Gel Volume | | | | |
| ISIP | | | | |
| ATP | | | | |
| AIR | | | | |

DRILL DATA HOLE – NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET OPERATIONS

HOLE NO.PC-031

LOCATION: BUG HURLEY

DRILL: RIG 94

DATE STARTED: 10-01-03

ELECTRIC LOGGED: YES

DATE COMPLETED: 10-06-03

GROUTED: YES

| DEPTH | | THICKNESS | STRATA | REMARKS |
|-------|-----|-----------|--|------------------------|
| FROM | TO | FT. | DESCRIPTION | VOIDS, ETC |
| 0 | 02 | 2 | OVERBURDEN | |
| 2 | 17 | 15 | SHALE/SANDY SHALE/SANDSTONE | |
| 17 | 25 | 8 | SANDSTONE | 17.15'W/13-3/8" CASING |
| 25 | 56 | 31 | SANDSTON/SANDY SHALE STR. | |
| 56 | 87 | 31 | SANDSTONE/SANDY SHAEL/COAL STRK/ SANDSTONE | |
| 87 | 118 | 31 | SANDSTONE/SANDY SHALE | |
| 118 | 150 | 32 | SANDY SHALE/COAL-122-131/SANDY SH. | |
| 150 | 180 | 30 | SANDSTONE/SANDY SHALE/SANDSTONE/ COAL/SANDSTONE | |
| 180 | 210 | 30 | SANDSTONE/COAL STR/SANDSTONE | |
| 210 | 240 | 30 | SANDSTONE | |
| 240 | 270 | 30 | SANDSTONE/SANDY SH. STR/SANDSTONE | |
| 270 | 300 | 30 | SANDSTONE/SANDY SH.STR.SANDSTONE | |
| 300 | 320 | 20 | SANDY SHALE | 313' W/7" CASING |
| 320 | 330 | 10 | SANDSTONE/SANDY SHALE STR. | |
| 330 | 360 | 30 | SANDY SHALE/COAL/SANDSTONE | |
| 360 | 390 | 30 | SANDSTONE/COAL-375-379'/SANDY SHALE/ SANDSTONE | |
| 390 | 420 | 30 | SANDSTONE/COAL/415-418'/SANDY SHALE | |
| 420 | 450 | 30 | SANDY SHALE/COAL STR/SANDSTONE | |
| 450 | 480 | 30 | SANDSTONE/SANDY SHALE/COAL STR. | |
| 480 | 510 | 30 | SANDY SHALE/SANDSTONE/SANDY SHALE | |
| 510 | 540 | 30 | SANDY SHALE/COAL STR. (2) | |
| 540 | 570 | 30 | SANDY SHALE/SANDSTONE | |
| 570 | 600 | 30 | COAL STR/SANDSTONE/SANDY SHALE | |
| 600 | 630 | 30 | SANDY SHALE/SANDSTONE | |
| 630 | 660 | 30 | SANDSTONE/SANDY SHALE STR | |
| 660 | 690 | 30 | SANDY SHALE/COAL STR/SANDSTONE | |
| 690 | 720 | 30 | SANDSTONE/COAL STR (2)/SANDY SHALE | |
| 720 | 750 | 30 | SANDY SHALE/COAL STR/SANDSTONE | |
| 750 | 780 | 30 | SANDSTONE/COAL STR/SANDY SHALE/ SANDSTONE | |
| 780 | 810 | 30 | SANDSTONE STR/SANDY SHALE | |
| 810 | 840 | 30 | SANDY SHALE/COAL STR (2)/SANDSTONE | |
| 840 | 870 | 30 | SANDSTONE STR/SANDY SH./COAL STR | |
| 870 | 900 | 30 | SANDY SHALE/COAL STR. | |

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HOLE PC-031
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| | | | |
|------|------|----|---|
| 900 | 930 | 30 | SANDY SHALE/SANDSTONE |
| 930 | 960 | 30 | SANDY SHALE/COAL STR/SANDSTONE |
| 960 | 990 | 30 | SANDY SHALE/COAL -975-978'/SHALE |
| 990 | 1020 | 30 | SANDSTONE/SANDY SHALE |
| 1020 | 1050 | 30 | SANDY SHALE |
| 1050 | 1080 | 30 | COAL-3/SANDY SHALE/SANDSTONE |
| 1080 | 1110 | 30 | SANDY SHALE |
| 1110 | 1140 | 30 | SANDSTONE/SANDY SHALE |
| 1140 | 1170 | 30 | SANDSTONE/SANDY SHALE STR. |
| 1170 | 1200 | 30 | SANDSTONE |
| 1200 | 1230 | 30 | SANDY SHALE/SANDSTONE/SANDY SHALE |
| 1230 | 1260 | 30 | SANDY SHALE/SANDSTONE STR. |
| 1260 | 1290 | 30 | SANDSTONE |
| 1290 | 1320 | 30 | SANDSTONE/SANDY SHALE STR. |
| 1320 | 1350 | 30 | SANDSTONE/SHALE STR. |
| 1350 | 1380 | 30 | SHALE |
| 1380 | 1410 | 30 | SANDY SHALE/COAL STR./SANDSTONE |
| 1410 | 1440 | 30 | COAL STR./SANDY SHALE |
| 1440 | 1470 | 30 | SANDY SHALE STR/SANDSTONE |
| 1470 | 1500 | 30 | SANDY SHALE |
| 1500 | 1530 | 30 | SANDY SHALE/SANDSTONE |
| 1530 | 1560 | 30 | SANDY SHALE |
| 1560 | 1590 | 30 | SANDSTONE STR./SANDSTONE |
| 1590 | 1620 | 30 | SANDSTONE/SANDY SHALE/COAL STR/ SANDSTONE |
| 1620 | 1650 | 30 | SANDSTONE/SANDY SHALE STR. |
| 1650 | 1680 | 30 | SANDSTONE/SANDY SHALE |
| 1680 | 1710 | 30 | SANDSTONE |
| 1710 | 1740 | 30 | SAND/SANDY SHALE/COAL STR. |
| 1740 | 1770 | 30 | SANDSTONE |
| 1770 | 1800 | 30 | SANDSTONE/SANDY SHALE/COAL - 1795-1798' |
| 1800 | 1830 | 30 | SANDSTONE/COAL-1815-1818'/SANDY SHALE/SANDSTONE |
| 1830 | 1860 | 30 | SANDSTONE STR/SANDY SHALE/ SANDSTONE STR. |
| 1860 | 1890 | 30 | COAL-1860-1862'/SANDY SHALE/ SANDSTONE |
| 1890 | 1920 | 30 | SANDY SHALE/POSS.COAL STR/SANDST. |
| 1920 | 1950 | 30 | SANDSTONE STR/COAL-1925-1927'/ SANDY SHALE/COAL STR. |
| 1950 | 1980 | 30 | SANDY SHALE/SANDSTONE |
| 1980 | 2010 | 30 | SANDSTONE/SHALE STRKS. |
| 2010 | 2040 | 30 | SANDSTONE/SHALE STRKS. |
| 2040 | 2070 | 30 | SANDY SHALE/SANDSTONE STR. |
| 2070 | 2100 | 30 | SANDY SHALE/SANDSTONE STR. |