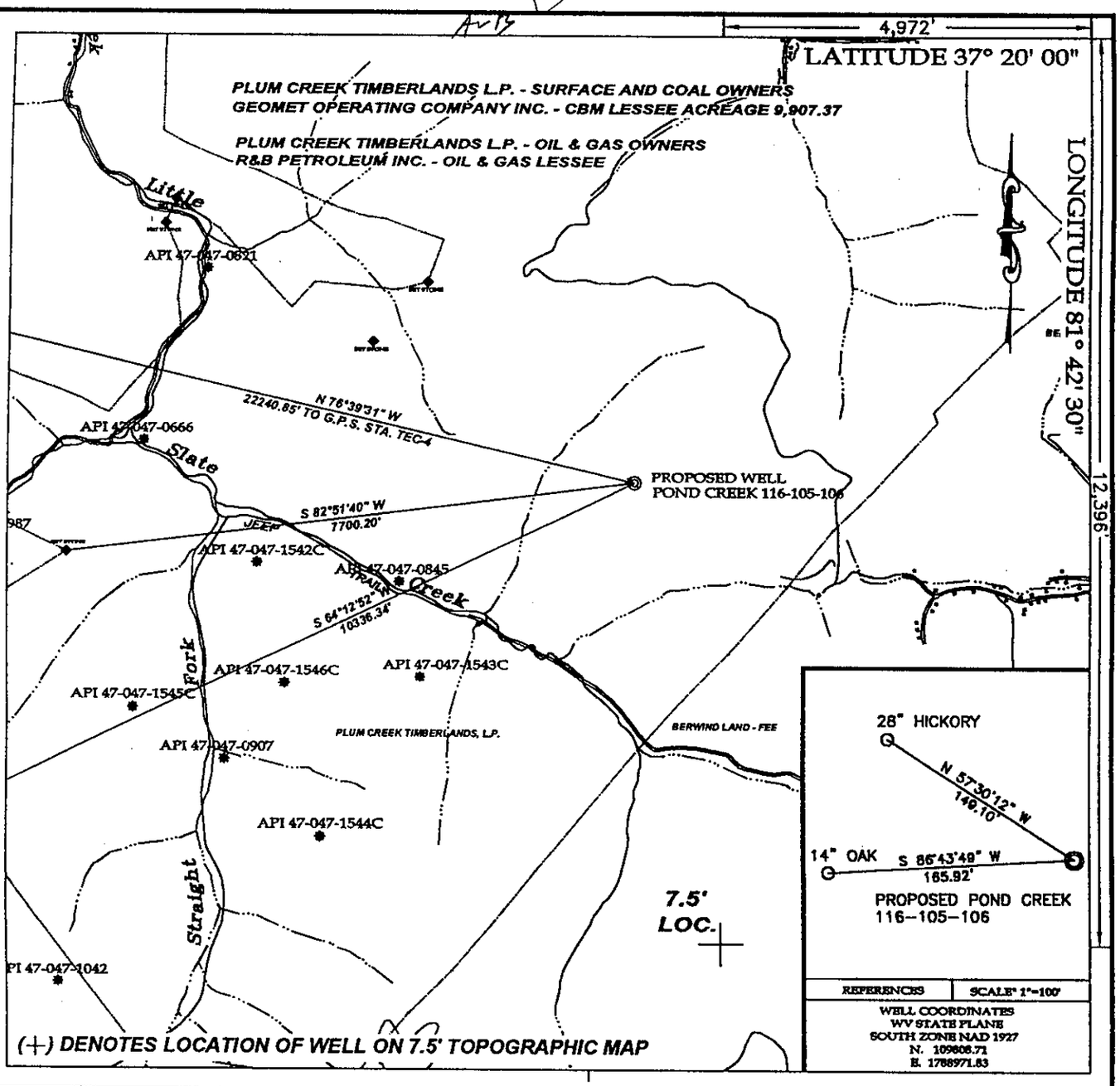



*TEE Engineering Company, Inc.*

320 Cutters Hill Court
Lexington, KY 40509
(859) 263-5350
Fax (859) 263-5345

P.O. Box 219
Stanville, KY 41659
(606) 478-9024
Fax (606) 478-9019


GeoMet Operating Company, Inc.
Well No. Pond Creek 116-105-106

FILE NO. 1883-08/2003 WELLS
DRAWING NO. POND CREEK 106 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 ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

Don F. Blackburn
(SIGNATURE)

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

DON F. BLACKBURN
REGISTERED
8643
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
(SEAL)

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

DATE MAY 20, 2003
OPERATOR'S WELL NO. POND CREEK 116-105-106
API WELL NO. 47 - 047 - 01814C
STATE COUNTY PERMIT

WELL TYPE: OIL ____ GAS X CBM ____ LIQUID INJECTION ____ WASTE DISPOSAL ____
(IF "GAS") PRODUCTION X STORAGE ____ DEEP ____ SHALLOW ____
LOCATION: ELEVATION 2,113.99' NORTHING 109808.71 EASTING 1788971.83
DISTRICT BIG CREEK WATER SHED LITTLE SLATE CREEK
QUADRANGLE WAR 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 X CONVERT ____ DRILL DEEPER ____ REDRILL ____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ____ PEFORATE NEW FORMATION ____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ____
PLUG AND ABANDON ____ CLEAN OUT AND REPLUG ____
TARGET FORMATION NEW RIVER AND POCAHONTAS COALS ESTIMATED DEPTH 1,555'
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 1814C

(Bradshaw 270)

JUL 18 2003 JUL 03 2003

WR-35
Rev (5-01)

DATE: October 15, 2003
API #: 47-4701814

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

**Well Operator's Report of Well Work**

**FARM NAME:** Plum Creek Timberlands **OPERATOR WELL NO.:** 116-105-106

**LOCATION:**
Elevation: 2,113.99' Quadrangle: War

District: Big Creek County: McDowell
Latitude: 4,972' Feet South of 37 Deg. 20 Min. 00 Sec.
Longitude: 12,396' Feet West of 81 Deg. 42 Min. 30 Sec.

| Company: GeoMet Operating Company | Casing & Tubing | Used in Drilling | Left in Well | Cement fill up Cu. Ft. |
|---|---|---|---|---|
| Address: 5336 Stadium Trace Parkway, Suite 206 Birmingham, Alabama 35244 | 16" | 27' | 27' | |
| Agent: Gregg Cleary | | | | |
| Inspector: Ronnie Scott | 8-5/8" | 830' | 830' | 187/Pumped 180 |
| Date Permit Issued: July 16, 2003 | | | | |
| Date Well Work Commenced: August 29, 2003 | 11-3/4" | 328' | 328' | 197/Pumped 210 |
| Date Well Work Completed: September 9, 2003 | | | | |
| Verbal Plugging: | 5-1/2 | 1786' | 1786' | 310/Pumped 338 |
| Date Permission granted on: | | | | |
| Rotary XXXX Cable Rig | | | | |
| Total Depth (feet): 1800' | | | | |
| Fresh Water Depth (feet): Unknown | | | | |
| | | | | |
| Salt Water Depth (feet): Unknown | | | | |
| | | | | |
| Is coal being mined in area (N/Y)? No | | | | |
| | | | | |

Coal Depths (feet): 836, 865, 921, 923, 983, 985, 1013, 1084, 1163, 1195, 1228, 1279, 1362, 1363, 1433, 1552, 1795.

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 15 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: _____

BY: Dundrea Smith

DATE: _____

McDow 1814C

NOV 14 2003

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

Well Name Pond Creek 106 PBTD 1758'

## Zone and Perforation Table

| Frac | | | Ball Out | Bridge Plug Set @ | Est Sand Weight | Actual Sand Weight |
|---|---|---|---|---|---|---|
| Stage 1 Interval | 1550 | 1553 | | | | |
| N2 Scf | 278,000 | | | | 10,000 | 10,600 |
| Acid | 200 | 15% | | | | |
| Gel Volume | 9,035 | | | | | |
| ISIP | 2,980 | | | | | |
| ATP | 3,650 | | | No Plug | | |
| AIR | 18.5 | BPM | | | | |
| Stage 2 Interval | 1,361 | 1364 | | | 25,000 | 26,800 |
| N2 Scf | 277,000 | | | | | |
| Acid | 500 | | | | | |
| Gel Volume | 9,064 | | | | | |
| ISIP | 1,445 | | | | | |
| ATP | 2,450 | | | Plug @ 1400' | | |
| AIR | 29 | BPM | | | | |
| Stage 3 Interval | 1,277 | 1280 | | | 25,000 | 15,000 |
| N2 Scf | 252,000 | | | | | |
| Acid | 500 | | | | | |
| Gel Volume | 7,405 | | | | | |
| ISIP | 2,585 | | | | | |
| ATP | 3,000 | | | Plug @ 1330' | | |
| AIR | 27 | BPM | | | | |
| Stage 4 Interval | 1,162 | 1229 | | | 50,000 | 43,400 |
| N2 Scf | 377,000 | | | | | |
| Acid | 1,000 | | | | | |
| Gel Volume | 12,415 | | | | | |
| ISIP | 1,595 | | | | | |
| ATP | 2,750 | | | Plug @ 1245' | | |
| AIR | 31 | BPM | | | | |
| Stage 5 Interval | 1,162 | 1229 | | | 35,000 | 35,400 |
| N2 Scf | 278,000 | | | | | |
| Acid | 1,000 | 15% | | | | |
| Gel Volume | 11,120 | | | | | |
| ISIP | 1,755 | | | | | |
| ATP | 2,650 | | | Plug @ 1050' | | |
| AIR | 30 | BPM | | | | |

Well Name Pond Creek 106 PBTD 1758'

**Zone and Perforation Table**

| | | | Ball Out | Bridge Plug Set @ | Est Sand Weight | Actual Sand Weight |
|---|---|---|---|---|---|---|
| Stage 6 Interval | 920 | 923 | | | | |
| N2 Scf | 261,000 | | | | 20,000 | 20,800 |
| Acid | 500 | 15% | | | | |
| Gel Volume | 6,855 | | | | | |
| ISIP | 1,100 | | | | | |
| ATP | 2,800 | | | Plug @ 960' | | |
| AIR | 25 | BPM | | | | |
| Stage 7 Interval | | | | | | |
| N2 Scf | | | | | | |
| Acid | | | | | | |
| Gel Volume | | | | | | |
| ISIP | | | | | | |
| ATP | | | | | | |
| AIR | | BPM | | | | |
| Stage 8 Interval | | | | | | |
| N2 Scf | | | | | | |
| Acid | | | | | | |
| Gel Volume | | | | | | |
| ISIP | | | | | | |
| ATP | | | | | | |
| AIR | | BPM | | | | |
| Stage 9 Interval | | | | | | |
| N2 Scf | | | | | | |
| Acid | | | | | | |
| Gel Volume | | | | | | |
| ISIP | | | | | | |
| ATP | | | | | | |
| AIR | | BPM | | | | |
| Stage 10 Interval | | | | | | |
| N2 Scf | | | | | | |
| Acid | | | | | | |
| Gel Volume | | | | | | |
| ISIP | | | | | | |
| ATP | | | | | | |
| AIR | | | | | | |





McDow 1814

# DRILL DATA HOLE – NOAH HORN WELL DRILLING, INC.

COMPANY: GEO-MET

HOLE NO. PC-106

LOCATION: BUG HURLEY HOLLOW

DRILL: RIG 23

DATE STARTED: 08-28-03

ELECTRIC LOGGED: YES

DATE COMPLETED: 09-04-03

GROUTED: YES

| DEPTH | | THICKNESS | STRATA | REMARKS |
|---|---|---|---|---|
| FROM | TO | FT. | DESCRIPTION | VOIDS, ETC |
| 0 | 27 | 27 | OVERBURDEN | 27' W/16" CASING |
| 27 | 90 | 63 | SANDY SHALE | |
| 90 | 120 | 30 | SHALE | |
| 120 | 150 | 30 | SANDY SHALE | |
| 150 | 180 | 30 | SANDSTONE | |
| 180 | 210 | 30 | SANDSTONE/SANDY SHALE | |
| 210 | 240 | 30 | SANDSTONE | |
| 240 | 270 | 30 | SANDSTONE/SANDY SHALE/SANDY SH. | |
| 270 | 300 | 30 | SANDSTONE/SANDY SHALE | |
| 300 | 330 | 30 | SANDY SHALE/SANDSTONE | 328.49' W/ 11-3/4" |
| 330 | 360 | 30 | SANDY SHALE | |
| 360 | 390 | 30 | SANDSTONE | |
| 390 | 420 | 30 | SANDY SHALE | |
| 420 | 440 | 20 | SANDSTONE/SANDY SHALEJ/COAL | |
| 440 | 470 | 30 | SANDY SHALE/SANDSTONE/COAL | |
| 470 | 500 | 30 | SANDSTONE/SANDY SHALE | |
| 500 | 530 | 30 | SANDY SHALE/COAL – 4' | |
| 530 | 560 | 30 | SAND/SANDSTONE | |
| 560 | 590 | 30 | SANDSTONE/SANDY SHALE/COAL | |
| 590 | 620 | 30 | SANDSTONE/SANDY SHALE/SANDSTONE | |
| 620 | 680 | 60 | SANDY SHALE/SANDSTONE | |
| 680 | 710 | 30 | SANDSTONE | |
| 710 | 740 | 30 | SANDSTONE/SANDY SHALE | |
| 740 | 770 | 30 | SANDY SHALE/SANDSTONE STRKS. | |
| 770 | 777 | 07 | BROKE UP –COAL | |
| 777 | 800 | 23 | SANDY SHALE/SANDSTONE/SANDY SHALE | |
| 800 | 830 | 30 | SANDY SHALE/SANDSTONE | |
| 830 | 860 | 30 | SANDSTONE | |
| 860 | 890 | 30 | SANDY SHALE/SANDSTONE | |
| 890 | 920 | 30 | SANDSTONE/COAL-2'/SANDY SHALE | |
| 920 | 950 | 30 | SANDY SHALE/SANDSTONE | |
| 950 | 980 | 30 | SANDSTONE/SANDY SHALE/COAL STR | |
| 980 | 1010 | 30 | SANDY SHALE/SANDSTONE | |
| 1010 | 1040 | 30 | SANDSTONE | |
| 1040 | 1070 | 30 | SANDSTONE/SANDY SHALE/COAL STR. | |
| 1070 | 1100 | 30 | SANDY SHALE/SANDSTONE | |

| | | | |
|---|---|---|---|
| 1100 | 1130 | 30 | SANDSTONE/SANDY SHALE |
| 1130 | 1160 | 30 | SANDY SHALE/COAL STR/SANDSTONE |
| 1160 | 1190 | 30 | SANDSTONE/SANDY SHALE |
| 1190 | 1220 | 30 | SANDY SHALE/SANDSTONE |
| 1220 | 1250 | 30 | SANDY SHALE |
| 1250 | 1280 | 30 | SANDY SHALE/SANDSTONE |
| 1280 | 1310 | 30 | COAL STRKS/SANDY SHALE |
| 1310 | 1340 | 30 | SANDY SHALE/COAL STR/SANDSTONE |
| 1340 | 1520 | 180 | SANDY SHALE |
| 1520 | 1550 | 30 | SANDY SHALE/R.S. 4'/SANDY SHALE |
| 1550 | 1580 | 30 | SANDY SHALE/SANDSTONE |
| 1580 | 1610 | 30 | SANDSTONE/SANDY SHALE |
| 1610 | 1640 | 30 | SANDY SHALE/SANDSTONE |
| 1640 | 1670 | 30 | SANDSTONE/SANDY SHALE STR. |
| 1670 | 1700 | 30 | SANDSTONE/SANDY SHALE |
| 1700 | 1730 | 30 | SANDY SHALE |
| 1730 | 1760 | 30 | SANDY SHALE/R.S. |
| 1760 | 1790 | 30 | R.S. – 10'/SANDY SHALE/R. SH. 5' |
| | | | 1786' W/5-21/2" CASING |

TOTAL DEPTH: 1790'
27' W/16" CASING
328.49' W/11-3/4" CASING
830' W/8-5/8" CASING
1786' W/5-1/2" CASING