

(+) DENOTES LOCATION OF WELL ON 7.5' TOPOGRAPHIC MAP

**TEE Engineering Company, Inc.**

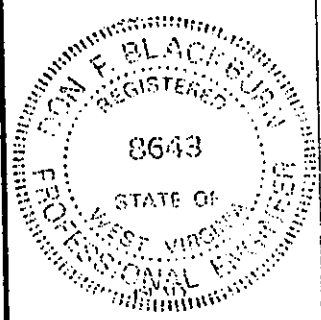
GeoMet Operating Company, Inc.  
Well No. Pond Creek 104-103-015

FILE NO. 1925-11  
DRAWING NO. WELL 15 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 FEBRUARY 5, 2002  
OPERATOR'S WELL NO. POND CREEK 104-103-015

API WELL NO. 47 047 1616  
STATE COUNTY PERMIT

WELL TYPE: OIL GAS X CBM LIQUID INJECTION WASTE DISPOSAL  
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW  
LOCATION: ELEVATION 2,141.95' WATER SHED ALDRICH FORK OF BRADSHAW CREEK  
DISTRICT SANDY RIVER COUNTY  
QUADRANGLE BRADSHAW

SURFACE OWNER PLUM CREEK TIMBERLANDS, L.P. ACREAGE 9,909.37  
CBM ROYALTY OWNER PLUM CREEK TIMBERLANDS, L.P. LEASE ACREAGE 9,909.37

PROPOSED WORK: DRILL X 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 1935'  
WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT GREGG CLEARY  
ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 206 BIRMINGHAM, ALABAMA 35244 ADDRESS 1105 HEATHERWOOD ROAD BLUEFIELD, WV 24701

MAR 15 2002

McDow 1616c

*Handwritten initials*

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, L.P.

OPERATOR WELL NO.: PC #015

LOCATION:

Elevation: 2141.95

Quadrangle: Bradshaw

District: Sandy River County: McDowell  
Latitude: 6002 Feet South of 37 Deg. 17 Min. 30 Sec.  
Longitude: 1656 Feet West of 81 Deg. 47 Min. 30 Sec.

Company: <u>GeoMet Operating Company</u>	Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
Address: 5336 Stadium Trace Parkway, Suite 206 Birmingham, Alabama 35244	13-3/8"	41.15'	41.15'	
Agent: <u>Gregg Cleary</u>				
Inspector: <u>Ronnie Scott</u>	8-5/8"	333'	333'	137/Pumped 204
Date Permit Issued: <u>March 12, 2002</u>				
Date Well Work Commenced: <u>June 28, 2002</u>	5-1/2"	1958'	1958'	339/Pumped 364
Date Well Work Completed: <u>September 17, 2002</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>2040'</u>				
Fresh Water Depth (feet): <u>Unknown</u>				
Salt Water Depth (feet): <u>Unknown</u>				
Is coal being mined in area (N/Y)? <u>No</u>				

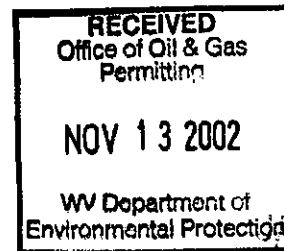
Coal Depths (feet): 538/617/742/763/853/1102/1191/1219/1305/1366/1376/1396/1428/1461/1476/1501/1564/1654/1729/1735

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 225 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: Karen Rife  
 DATE: 12-18-2002



McDow 1616 C  
NOV 17 2003

API #: 47-01616C  
Operator Well #: PC #015  
Farm Name: Plum Creek Timberlands, L.P.

1.) Details of perforated intervals, fracturing or stimulating, physical change, etc.

1<sup>st</sup> Stage:

Perf P2, 1732' – 1736' & frac on 9/17/02 by Superior with 70Q Foam 16,000 16/30 Sand, 183,000 SCF N2, 238 Total Bbls Fluid. Breakdown Pressure 3521 PSIG, Average Pressure 2654 PSI, 1880 ISIP

2<sup>nd</sup> Stage:

Perf P2-1, 1657' – 1661' & frac on 9/17/02 by Superior with 70Q Foam 19,400 16/30 Sand, 194,000 SCF N2, 131 Total Bbls Fluid. Breakdown Pressure 2970 PSIG, Average Pressure 2450 PSI, 4000 ISIP

3<sup>rd</sup> Stage:

Perf P4, 1566' – 1570' & frac on 9/17/02 by Superior with 70Q Foam 30,600 16/30 Sand, 263,000 SCF N2, 167 Total Bbls Fluid. Breakdown Pressure 2465 PSIG, Average Pressure 2610 PSI, 1460 ISIP

4<sup>th</sup> Stage:

Perf P5, 1464' – 1468', Perf P4-5, ~~1479' – 1485'~~ & frac on 9/17/02 by Superior with 70Q Foam 62,000 16/30 Sand, 390,000 SCF N2, 262 Total Bbls Fluid. Breakdown Pressure 2909 PSIG, Average Pressure 2366 PSI, 1435 ISIP

5<sup>th</sup> Stage:

Perf P6, 1429' – 1433' & frac on 9/17/02 by Superior with 70Q Foam 20,000 16/30 Sand, 199,000 SCF N2, 143 Total Bbls Fluid. Breakdown Pressure 3312 PSIG, Average Pressure 2445 PSI, 1465 ISIP

6<sup>th</sup> Stage:

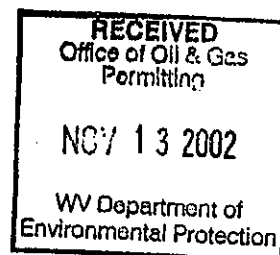
Perf P6, 1400' – 1402', Perf P-9, 1379' – 1381'/1368' – 1372' & frac on 9/17/02 by Superior with 70Q Foam 37,500 16/30 Sand, 276,000 SCF N2, 238 Total Bbls Fluid. Breakdown Pressure 2419 PSIG, Average Pressure 2265 PSI, 1500 ISIP

7<sup>th</sup> Stage:

Perf P9-6, 1220' – 1224', Perf P9-7, 1193' – 1199' & frac on 9/17/02 by Superior with 70Q Foam 32,000 16/30 Sand, 233,000 SCF N2, 214 Total Bbls Fluid. Breakdown Pressure 2290 PSIG, Average Pressure 1970 PSI, 1260 ISIP

8<sup>th</sup> Stage:

Perf P10, 1105' – 1109' & frac on 9/17/02 by Superior with 70Q Foam 35,000 16/30 Sand, 310,000 SCF N2, 191 Total Bbls Fluid. Breakdown Pressure 2300 PSIG, Average Pressure 2446 PSI, 1580 ISIP



**DRILL DATA HOLE - NOAH HORN WELL DRILLING, INC.**

**COMPANY: GEOMET OPERATING CO.      HOLE NO.: GPPC-015**

**LOCATION: PEA PATCH                      DRILL: RIG # 45**

**DATE STARTED: 06-28-2002              DATE COMPLETED: 07-03-2002**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT.	DESCRIPTION	VOIDS, ETC
0.00	35.00	35.00	OVERBURDEN	
35.00	41.00	6.00	SOFT SAND / SAND	41.15' W/ 13 3/8" CASING
41.00	63.00	22.00	SAND	
63.00	246.00	183.00	SANDY SHALE / COAL	
246.00	276.00	30.00	SANDY SHALE	
276.00	306.00	30.00	SAND	
306.00	346.00	40.00	SANDY SHALE	333' W/ 8 5/8" CASING
346.00	390.00	44.00	SAND	
390.00	450.00	60.00	SANDY SHALE	
450.00	480.00	30.00	SAND	
480.00	510.00	30.00	SANDY SHALE	
510.00	540.00	30.00	SAND	
540.00	570.00	30.00	SAND STR / SANDY SHALE	
570.00	600.00	30.00	SANDY SHALE / SAND STR	
600.00	630.00	30.00	SANDY SHALE / COAL STR	615' SAND
630.00	660.00	30.00	SAND / SANDY SHALE	
660.00	690.00	30.00	SAND / COAL STR	667' SAND
690.00	720.00	30.00	SAND / COAL	710'-712' / SANDY SHALE
720.00	750.00	30.00	SANDY SHALE / SAND / COAL	738'-740' / SANDY SHALE
750.00	780.00	30.00	SAND / COAL	770'-772' / SANDY SHALE
780.00	810.00	30.00	SANDY SHALE / COAL	785', 787', 790' / SAND
810.00	840.00	30.00	SAND / SANDY SHALE / SAND STR	
840.00	870.00	30.00	SANDY SHALE / SHALE STR / COAL	854'-856'
870.00	900.00	30.00	SANDY SHALE / SAND STR / SANDY SHALE	
900.00	930.00	30.00	SANDY SHALE / SAND STR	
930.00	960.00	30.00	SANDY SHALE / SAND	
960.00	990.00	30.00	SAND / COAL	970'-972' / SAND / SANDY SHALE
990.00	1020.00	30.00	SANDY SHALE / SAND	
1020.00	1050.00	30.00	SAND / SANDY SHALE / SAND	
1050.00	1080.00	30.00	SAND / SANDY SHALE / COAL STR	
1080.00	1110.00	30.00	SANDY SHALE / COAL	1097'-1101' / SANDY SHALE / SAND STR
1110.00	1140.00	30.00	SANDY SHALE / SAND	
1140.00	1170.00	30.00	SANDY SHALE / COAL STR	1145' / SAND
1170.00	1200.00	30.00	SANDY SHALE / COAL	1190'-1193'
1200.00	1230.00	30.00	SANDY SHALE / COAL	1215'-1218' / SANDY SHALE / SAND STR
1230.00	1260.00	30.00	SANDY SHALE / COAL	1240'-1241' / SAND
1260.00	1290.00	30.00	SANDY SHALE / SAND	
1290.00	1320.00	30.00	SAND / SANDY SHALE STR / COAL STR	1305'
1320.00	1350.00	30.00	SAND / SANDY SHALE	

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Office of Oil & Gas  
Permitting

**NOV 13 2002**

WV Department of  
Environmental Protection

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JAN 7 2003

PAGE 2  
 GEOMET OPERATING CO  
 GPPC-015

FROM	TO	FT.	DESCRIPTION
1350.00	1380.00	30.00	SANDY SHALE / COAL <u>1365'-1367'</u> / SAND
1380.00	1410.00	30.00	SANDY SHALE / COAL <u>1395'-1398'</u> / SAND
1410.00	1440.00	30.00	SAND / SANDY SHALE / COAL <u>1413'-1416'</u> / SANDY SHALE / SAND
1440.00	1470.00	30.00	SANDY SHALE / COAL <u>1457'-1460'</u>
<del>1470.00</del>	<del>1500.00</del>	<del>30.00</del>	<del>SANDY SHALE / COAL <u>1485'-1487'</u>, 1495'</del>
1500.00	1530.00	30.00	SANDY SHALE / SAND
1530.00	1560.00	30.00	SANDY SHALE
1560.00	1620.00	60.00	SANDY SHALE / COAL
1620.00	1680.00	60.00	SANDY SHALE
1680.00	1710.00	30.00	SAND
1710.00	1770.00	60.00	SANDY SHALE / COAL
1770.00	1800.00	30.00	SANDY SHALE
1800.00	1860.00	60.00	SAND
1860.00	1890.00	30.00	SANDY SHALE
1890.00	1950.00	60.00	SANDY SHALE / RED SHALE
1950.00	1980.00	30.00	SANDY SHALE
1980.00	2040.00	60.00	SAND TD 7 7/8" HOLE

2040.00 FT. TOTAL DEPTH  
 41.15 FT. OF 13 3/8" CASING  
 333.00 FT. OF 8 5/8" CASING

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