

16" WHITE OAK  
 20" CHESTNUT OAK  
 PROPOSED HALL NORTH 107-105-136

REFERENCES SCALE 1"=100'

WELL COORDINATES  
 WV STATE PLANS  
 SOUTH ZONE NAD 1927  
 N. 109443.06  
 E. 1771276.49

**TEE Engineering Company, Inc.**  
 520 Cottage Hill Court  
 Lexington, KY 40509  
 (859) 263-3330  
 Fax: (859) 263-3345

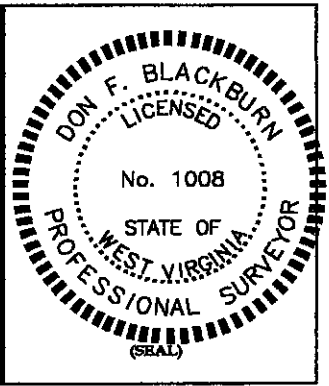
**GeoMet Operating Company, Inc.**  
 Well No. Hall North 107-105-136

FILE NO. 1883-08  
 DRAWING NO. HALL NORTH 136 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. \_\_\_\_\_ R.P.S. 1008



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

DATE JULY 20, 2004  
 OPERATOR'S WELL NO. HALL NORTH 107-105-136

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

LOCATION: ELEVATION 2,347.43' NORTHING 109445.06 EASTING 1771276.49  
 DISTRICT SANDY RIVER WATER SHED HITE FORK OF BRADSHAW CREEK  
 QUADRANGLE BRADSHAW COUNTY MCDOWELL

SURFACE OWNER HALL MINING COMPANY et al ACREAGE 370.12  
 CBM ROYALTY OWNER HALL MINING COMPANY et al LEASE ACREAGE 370.12  
 LEASE NO. \_\_\_\_\_ RECORDING IN PROGRESS \_\_\_\_\_

PROPOSED WORK: DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR  
 STIMULATE X 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 2,090'  
 WELL OPERATOR GEOMET OPERATING COMPANY, INC. DESIGNATED AGENT KERRY HILL  
 ADDRESS 5336 STADIUM TRACE PARKWAY SUITE 206 ADDRESS 330 HARPER PARK DRIVE SUITE A  
BIRMINGHAM, ALABAMA 35244 BECKLEY, WV 25801

JUN 24 2005  
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State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

Well Operator's Report of Well Work

FARM NAME: Hall Mining Company, et al

OPERATOR WELL NO.: HM North 107-105-136

LOCATION:

Elevation: 2,347.43'

Quadrangle: Bradshaw

District: Sandy River County: McDowell  
Latitude: 10.544' Feet South of 37 Deg. 20 Min. 00 Sec.  
Longitude: 12.904' 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>46.5'</u>	<u>46.5'</u>	
Agent: <u>Ryan Carter</u>				
Inspector: <u>Barry Stallings</u>	<u>8-5/8"</u>	<u>353'</u>	<u>353'</u>	<u>79/Pumped 120</u>
Date Permit Issued: <u>June 24, 2005</u>				
Date Well Work Commenced: <u>October 3, 2005</u>	<u>5-1/2"</u>	<u>2105'</u>	<u>2105'</u>	<u>365/Pumped 221</u>
Date Well Work Completed: <u>10/25/2005</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XXXX</u> Cable Rig				
Total Depth (feet): <u>2115'</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): 353, 414, 417, 437, 453, 730, 731, 819, 866, 872, 911, 943, 1001, 1044, 1128, 1259, 1265, 1298, 1347, 1358, 1360, 1374, 1468, 1539, 1547, 1573, 1584, 1615, 1652, 1656, 1762, 1827, 1833, 1872, 12941 ?

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OPEN FLOW DATA

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Producing formation All Zones Commingled Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial Open Flow 36 MCF/d Oil: Initial Open Flow \_\_\_\_\_ Bbl/d  
Final Open Flow \_\_\_\_\_ MCF/d Final Open Flow \_\_\_\_\_ Bbl/d  
Time of Open Flow between initial and final tests \_\_\_\_\_ Hours  
Static Rock Pressure 72 psig (surface pressure) after 96 Hours

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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: [Signature]  
DATE: 11/2/05

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

Well Name Hall Mining 136

PBTD

2105'

**Zone and Perforation Table**

Stage Interval				Est Sand Weight	Actual Sand Weight
Stage 1 Interval					
N2 Scf	389,000	SCF	1873-1876 1940-1942		
Acid	500	GAL	1953-1955	20,000	20,400
Gel Volume	6,426	GAL			
ISIP	1,380	PSI			
ATP	2,486	PSI	BALLED OUT W/ 36 BALLS		
AIR	29	BPM	BRIDGE PLUG @ 1850'		
Stage 2 Interval				20,000	20,100
N2 Scf	281,000	SCF	1761-1763 1823-1825		
Acid	500	GAL	1826-1828		
Gel Volume	5,670	GAL			
ISIP	1,345	PSI			
ATP	2,174	PSI	BALLED OUT W/ 30 BALLS		
AIR	33	BPM	BRIDGE PLUG @ 1700'		
Stage 3 Interval				20,000	20,200
N2 Scf	323,000	SCF	1615-1617 1652-1654		
Acid	500	GAL	1655-1657		
Gel Volume	5,922	GAL			
ISIP	1,418	PSI			
ATP	2,465	PSI	BALLED OUT W/ 30BALLS		
AIR	33	BPM	BRIDGE PLUG @ 1600'		
Stage 4 Interval				25,000	25,200
N2 Scf	346,000	SCF	1537-1539 1547-1549		
Acid	500	GAL	1573-1575		
Gel Volume	6,300	GAL			
ISIP	1,181	PSI			
ATP	2,536	PSI	BALLED OUT W/ 30 BALLS		
AIR	34	BPM	BRIDGE PLUG @ 1500'		
Stage 5 Interval				15,000	15,100
N2 Scf	203,000	SCF	1467-1469		
Acid	250	GAL			
Gel Volume	3,906	GAL			
ISIP	1,037	PSI			
ATP	2,244	PSI			
AIR	28	BPM	BRIDGE PLUG @ 1420'		

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

**COMPANY: GEOMET**

**HOLE #: HALL MINING NORTH #136**

**LOCATION: PEA PATCH**

**DRILL RIG #: 94**

**DATE STARTED: 10-03-05**

**DATED COMPLETED: 10-06-05**

**ELECTRIC LOGGED: YES**

**GROUTED: YES**

DEPTH		THICKNESS	STRATA	REMARKS
FROM	TO	FT	DESCRIPTION, VOIDS ETC	
0	46	46	OVERBURDEN	
46	65	19	SAND STONE/SANDY SHALE	
65	94	29	SANDY SHALE/SAND STONE	
94	125	31	SAND STONE/COAL/SANDY SHALE	
125	155	30	SANDY SHALE	
155	185	30	SAND STONE/SANDY SHALE/COAL	
185	215	30	SANDY SHALE/SAND STONE	
215	245	30	SAND STONE/SANDY SHALE	
245	275	30	SAND STONE/SANDY SHALE/SAND STONE	
275	305	30	SANDY SHALE	
305	335	30	SANDY SHALE/COAL	
335	365	30	SAND STONE/SANDY SHALE/COAL/SAND	
	STONE			
365	375	10	SAND STONE	
375	385	10	SAND/SHALE	
385	415	30	SAND/SHALE/COAL	
415	445	30		
445	475	30	SANDY SHALE/COAL/SAND STONE/SANDY	
	SHALE			
475	505	30	SANDY SHALE	
505	535	30	SANDY SHALE/COAL/SAND STONE	
535	565	30	SAND STONE/COAL/SAND STONE	
565	595	30	SAND STONE	
595	625	30	SAND STONE/SHALE STRKS	
625	655	30	SAND STONE/SANDY SHALE STRKS	
655	685	30	SANDY SHALE/SAND STONE	
685	715	30	SAND STONE/SANDY SHALE/SAND STONE	
715	745	30	SANDY SHALE/COAL/SANDY SHALE	
745	775	30	SANDY SHALE	
775	805	30	SAND STONE	
805	835	30	SANDY SHALE/COAL/SAND STONE	
835	865	30	SAND STONE/SANDY SHALE/COAL/SANDY	
	SHALE			
865	895	30	SANDY SHALE/SAND STONE/SANDY SHALE	
895	925	30	SANDY SHALE/COAL/SAND STONE	
925	955	30	SAND STONE/COAL/SANDY SHALE	
955	985	30	SANDY SHALE/SAND STONE	
985	1015	30	SAND STONE/COAL/SANDY SHALE	
1015	1045	30	SAND STONE/SANDY SHALE/COAL	
1045	1075	30	SAND STONE/SANDY SHALE	
1075	1105	30	SANDY SHALE	

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1105	1135	30	SANDY SHALE/COAL/SANDY SHALE/SAND STONE
1135	1165	30	SAND STONE
1165	1195	30	SAND STONE/SANDY SHALE
1195	1225	30	SANDY SHALE/SAND STONE
			STR/COAL/SANDY SHALE
1225	1255	30	SANDY SHALE/COAL/SAND STONE STR/SAND STONE
1255	1285	30	SAND STONE/COAL/SANDY SHALE/SAND STONE
1285	1315	30	SAND STONE STR/SANDY SHALE/COAL/SANDY SHALE
1315	1345	30	SAND STONE
1345	1375	30	SANDY SHALE/COAL/SAND STONE/COAL STR/SANDY SHALE
1375	1405	30	SANDY SHALE/SAND STONE STR
1405	1435	30	SANDY SHALE/COAL STR/SAND STONE/SANDY SHALE
1435	1465	30	SANDY SHALE/COAL/SANDY SHALE
1465	1525	60	SAND/SHALE
1525	1555	30	SANDY SHALE
1555	1585	30	SAND/SHALE
1585	1615	30	SAND/SHALE/COAL
1615	1645	30	SANDY SHALE
1645	1675	30	SAND/SHALE/COAL
1675	1705	30	SAND/SHALE
1705	1765	60	SAND/SHALE/COAL
1765	1795	30	SAND/SHALE/SAND STONE
1795	1825	30	SAND/SHALE
1825	1855	30	SAND STONE/SANDY SHALE
1855	1885	30	SAND/SHALE/COAL
1885	1975	90	SAND/SHALE
1975	2115	140	SAND/SHALE

2115.00 FT. TOTAL DEPTH  
 46.50 FT. OF 13 3/8" CASING  
 353.40 FT. OF 8 5/8" CASING  
 2231.45 FT. OF 5 1/2" CASING

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