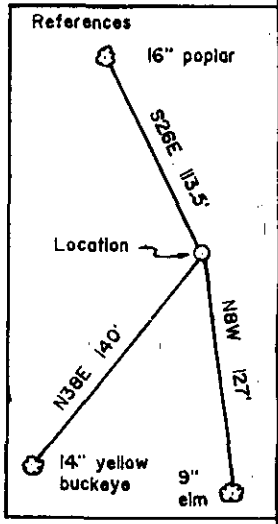
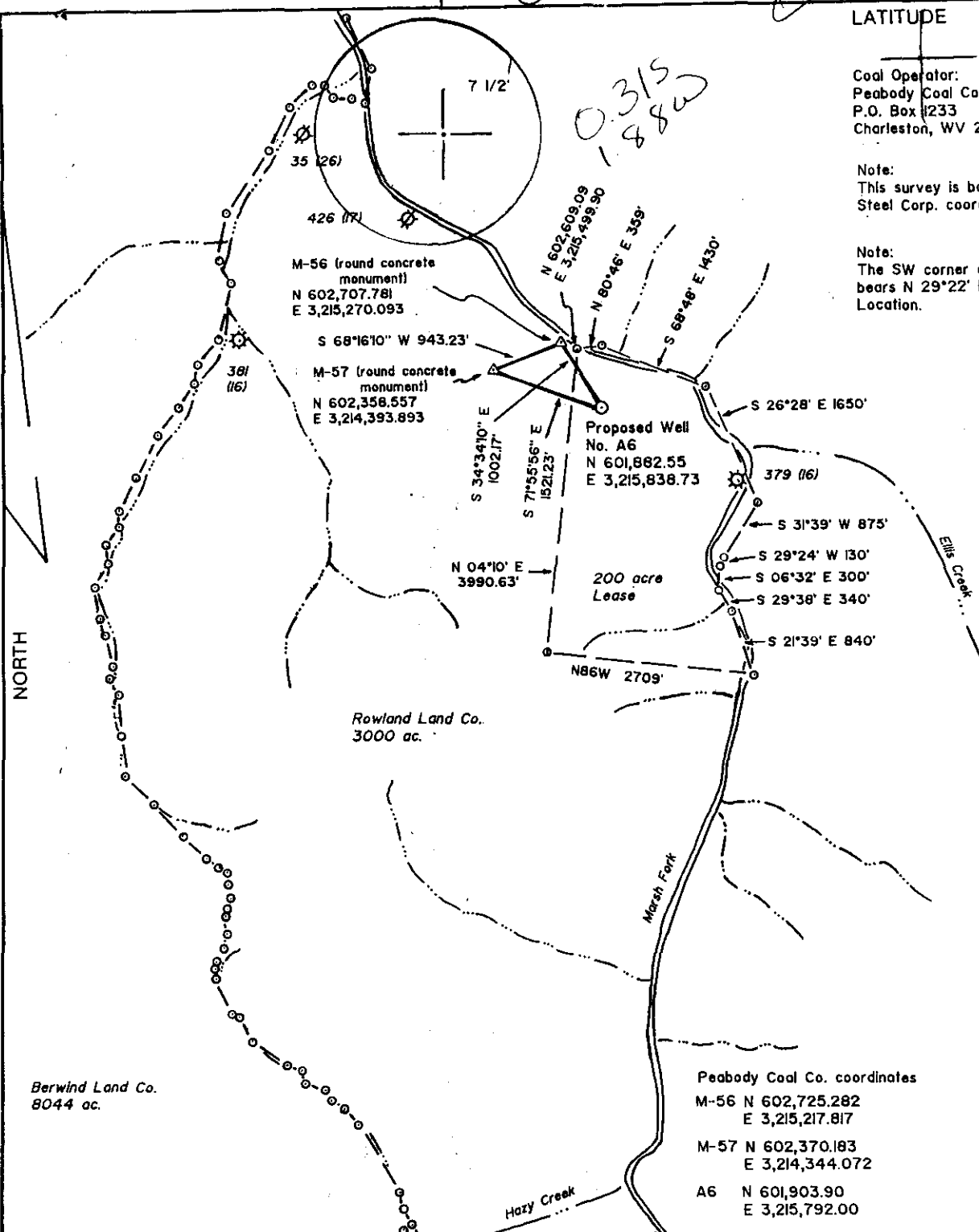


Coal Operator:
Peabody Coal Co.
P.O. Box 1233
Charleston, WV 25324

Note:
This survey is based on the Armco
Steel Corp. coordinate system

Note:
The SW corner of a one story house
bears N 29°22' E 220.1' from the
Location.



Peabody Coal Co. coordinates
 M-56 N 602,725.282
 E 3,215,217.817
 M-57 N 602,370.183
 E 3,214,344.072
 A6 N 601,903.90
 E 3,215,792.00

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 2000'
 MINIMUM DEGREE OF
 ACCURACY 1 in 10,000
 PROVEN SOURCE OF
 ELEVATION M-56 1002' NW of
the Location: elev. 930.82

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF ENERGY
 (SIGNED) [Signature]
 R.P.E. _____ L.L.S. 669



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE March 24, 19 87
 OPERATOR'S WELL NO. A-6
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1028 WATER SHED Marsh Fork of Big Coal River
 DISTRICT Marsh Fork 2 COUNTY Raleigh
 QUADRANGLE Whitesville 7 1/2' 677 006 6 Beld Knob EC
 SURFACE OWNER Rowland Land Co. ACREAGE 3000
 OIL & GAS ROYALTY OWNER Rowland Land Co. LEASE ACREAGE 200

LEASE NO. 8458
 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 Weir Sandstone ESTIMATED DEPTH 2800
 WELL OPERATOR Natural Resource Management Corp. DESIGNATED AGENT Dave Cash, Natural Resource Management Corp.
 ADDRESS Foster Plaza VI, 681 Anderson Dr. ADDRESS 312 Sixth Ave.
Pittsburgh, PA 15220 Charleston, WV 25303

WR-35



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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date November 13, 1987

Operator's

Well No. A#6

Farm Rowland Land

API No. 47 - 081 - 0790

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 1028' GL Watershed Marsh Fork of Little Coal River
District: Marsh Fork County Raleigh Quadrangle Whitesville 7.5'

COMPANY Natural Resource Management Corporation

ADDRESS 681 Andersen Drive, Foster Plaza VI
Pittsburgh, PA 15220

DESIGNATED AGENT Dave Cash, NRMC

ADDRESS 312 Sixth Avenue
Charleston, WV 25303

SURFACE OWNER Rowland Land Company

ADDRESS 1033 Quarrier Street, Room 301
Charleston, WV 25301

MINERAL RIGHTS OWNER same as surface owner

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Rodney G.

Dillon ADDRESS P. O. Box 1526
Sophia, WV 25921

PERMIT ISSUED July 20, 1987

DRILLING COMMENCED October 8, 1987

DRILLING COMPLETED October 13, 1987

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
CN

Casing & Tubing	Used in Drilling	Left in Well	Current fill up Cu. ft.
Size 20-16 Cond.			
13 3/8"	30'	30'	conductor
9 5/8	643'	643'	340 sks
8 5/8			
7	1190'	1190'	95 sks
5 1/2			
4 1/2	2733	2733	140 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Weir Sandstone Depth 2800 feet

Depth of completed well 2781 feet Rotary X / Cable Tools

Water strata depth: Fresh 110 feet; Salt 1080 feet

Coal seam depths: none reported Is coal being mined in the area? Yes

OPEN FLOW DATA

Producing formation Weir Sandstone Pay zone depth 2602-2656 feet

Gas: Initial open flow 152 Mcf/d Oil: Initial open flow Ebl/d

Final open flow 1400 Mcf/d Final open flow Ebl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 690 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation n/a Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Ebl/d

Final open flow Mcf/d Oil: Final open flow Ebl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

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1) Date: July 16, 19 87
 2) Operator's Well No. Rowland Land A-6
 3) API Well No. 47 State 081 County 0790 Permit

STATE OF WEST VIRGINIA
 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
 DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas / B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 1028' CL / Watershed: Marsh Fork of Little Coal River
 District: Marsh Fork 2 / County: Raleigh 081 / Quadrangle Whitesville 7.5' 676
 6) WELL OPERATOR Natural Resource CODE: 34550 / 7) DESIGNATED AGENT Dave Cash
 Address Management Corp., 681 Andersen Dr., Address Natural Resource Management Corp.,
 Foster Plaza VI, Pittsburgh, PA 15220 312 Sixth Ave., Charleston, WV 25303
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Rodney G. Dillon / 9) DRILLING CONTRACTOR: Name Unknown at this time
 Address P. O. Box 1526 / Address
 Sophia, WV 25921
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Weir
 12) Estimated depth of completed well, 2800 feet
 13) Approximate trata depths: Fresh, 178, 200, 430, 520 feet; salt, None feet.
 14) Approximate coal seam depths: None Reported Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	13-3/8		48	X		30'	30'	CTS	Kinds
Fresh water	9-5/8		32.3	X		600'	600'	CTS	Sizes
Coal									
Intermediate	7		20	X		1200'	1200'	100 SKS	Depths set
Production	4-1/2		10.5	X		2800'	2800'	As Required	Perforations:
Tubing									Top Bottom
Liners									

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-081-0790 Date July 20, 19 87

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires July 20, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Fee	MPCP	SLZ	Other
			2.00			
			13.36			

NOTE: Keep one copy of this permit posted at the drilling location.

Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Spotted 500 gal. 15% HCL and 500 gal. MeOH. Perforated 2602' - 2620', 7 holes. ^{Lower weir}
 Perforated 2648' - 2656', 9 holes. Broke down formations on hydrostatic. Pumped 681 bbls. 30# gel water 2% KCL with 225 SCF N₂/bbl. 575 sks 20/40 sand. Average treating rate 30 BPM. Average pressure 2500 PSI. ISIP A/F 1400 PSI. Flowed well back on 1/2" choke to clean up.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
<u>FROM DRILLER'S LOG:</u>					
Sand & Shale			0	380	FW @ 110'
Shale			380	530	
Salt Sand			530	1257	SW @ 1080'
Sand & Shale			1257	2080	
Lime			2080	2535	Oil Show @ 2325'
Sand & Shale			2535	2781	GC @ TD - 152 mcf
	DTD		2781'		
	LTD		2789'		
<u>FROM CDL:</u>					
Princeton SS			1286	1334	
Avis LS			1450	1483	
Maxton Stray SS			1540	1571	
Lower Maxton SS			1898	1957	
Little Lime			1983	2038	
Big Lime			2073	2393	
Upper Weir SS			2452	2561	
Lower Weir SS			2567	2655	

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DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

NATURAL RESOURCE MANAGEMENT CORPORATION

Well Operator

By: Paul J. Shuleski
 Date: Paul J. Shuleski, Regional Geology Manager
 November 13, 1987

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ⁶⁹⁵ ~~minerals~~, encountered in the drilling of a well."