



1) Date: November 28, 19 83
 2) Operator's Well No. A-1463 (McMullan)
 3) API Well No. 47 - 083 - 0852
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 2602 Watershed: Mulberry Fork
 District: Roaring Creek County: Randolph Quadrangle: Cassity 7.5'
- 6) WELL OPERATOR ALAMCO 7) DESIGNATED AGENT D. L. Wheeler
 Address P. O. Box 1740 Address P. O. Box 1740
Clarksburg, WV 26301 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Stewart Name Development Drilling Inc.
 Address P. O. Box 345 Address P. O. Box 1740
Jane Lew, WV 26378 Clarksburg, WV 26301
- 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, Elk
- 12) Estimated depth of completed well, 5200 feet
- 13) Approximate trata depths: Fresh, 112 feet; salt, _____ feet.
- 14) Approximate coal seam depths: 181-375; 434-438 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	16"				X	20'	20'	Cement to surface	
Fresh water									
Coal	8-5/8"		20#	X		700'	700'	Cement to surface by rule 15.01	
Intermediate									
Production	4-1/2"		10:55#	X		5200'	5200'	Req. by Rule 15.01	
Tubing									
Liners									Perforations: Top Bottom

RECEIVED
 DEC 27 1983

OFFICE USE ONLY
 DRILLING PERMIT
 DEPT. OF MINES

Permit number 47-083-0852 Date December 23, 19 83

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 December 23, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>MH</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>25124</u>
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Margaret J. Hassel
 Administrator, Office of Oil and Gas

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



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) LOCATION: District: Roaring Creek County: Randolph Elevation: 2602 Well No.: 083-4083

2) WELL OPERATOR: Name: James Stewart Address: P.O. Box 365, Charleston, WV 25301

3) DESIGNATED AGENT: Name: Robert Stewart Address: P.O. Box 365, Charleston, WV 25301

4) DRILLING CONTRACTOR: Name: Development Drilling Inc. Address: P.O. Box 1740, Charleston, WV 25301

5) PROPOSED WELL WORK: Drill Drift Plug off old formation Perform new formation Other physical change in well (specify): Stimulate

6) GEOLOGICAL TARGET FORMATION: Coal

7) APPROXIMATE COAL SEAM DEPTH: 8-12'

8) APPROXIMATE STRATA DEPTHS: 8-5'

9) ESTIMATED DEPTH OF COMPLETED WELL: 20'

10) IS COAL BEING MINED IN THE STATE? Yes No

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

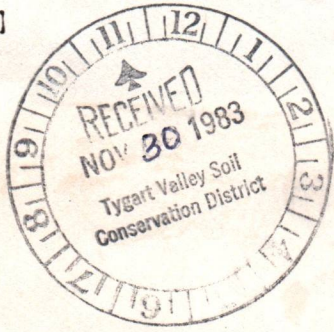
OTHER INSPECTIONS

Reason: _____

Reason: _____

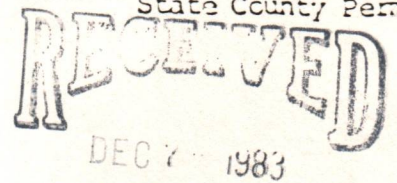
Board:	Agent:	Plant:	Casing:	Fee:
BB	MH	MMA	MMA	MMA

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



State of West Virginia
Department of Mines
Oil and Gas Division

Date 11-29-83
Well No. A-1463
API No. 47 - 083 - 0852
State County Permit



CONSTRUCTION AND RECLAMATION PLAN

Company Name ALAMCO
Address P. O. Box 1740
Clarksburg, West Virginia
Telephone 623-6671
Landowner WEST UACO

Designated Agent Daniel L. Warden
Address P. O. Box 1740
Clarksburg, West Virginia
Telephone 623-6671
Soil Cons. District TYGART VALLEY

Revegetation to be carried out by ALAMCO (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan. 12-3-83 (Date) Daniel L. Warden (SCD Agent)

ACCESS ROAD

LOCATION

Structure Drainage Ditch (A)
Spacing Earthen
Page Ref. Manual 2:12

Structure CULVERTS (B)
Spacing 18" I.D. (WHERE NEEDED)
Page Ref. Manual 2-7

Structure RIP RAP (C)
Spacing ROCK
Page Ref. Manual N/A

Structure DIVERSION Ditch (1)
Material Earthen
Page Ref. Manual 2:12

Structure RIP RAP (2)
Material ROCK
Page Ref. Manual N/A

Structure _____ (3)
Material _____
Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber to be cut and stacked. All brush and small timber to be cut and removed from site before dirt work begins.

REVEGETATION

TREATMENT AREA I

TREATMENT AREA II

Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Straw 2 Tons/acre

Seed* KENTUCKY 31 40 lbs/acre
DOMESTIC RYEGRASS 10 lbs/acre
BIRDFOOT TREFOIL 10 lbs/acre

Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Straw 2 Tons/acre

Seed* KENTUCKY 31 40 lbs/acre
DOMESTIC RYEGRASS 10 lbs/acre
BIRD FOOT TREFOIL 10 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

PLAN PREPARED BY Daniel L. Warden

ADDRESS _____

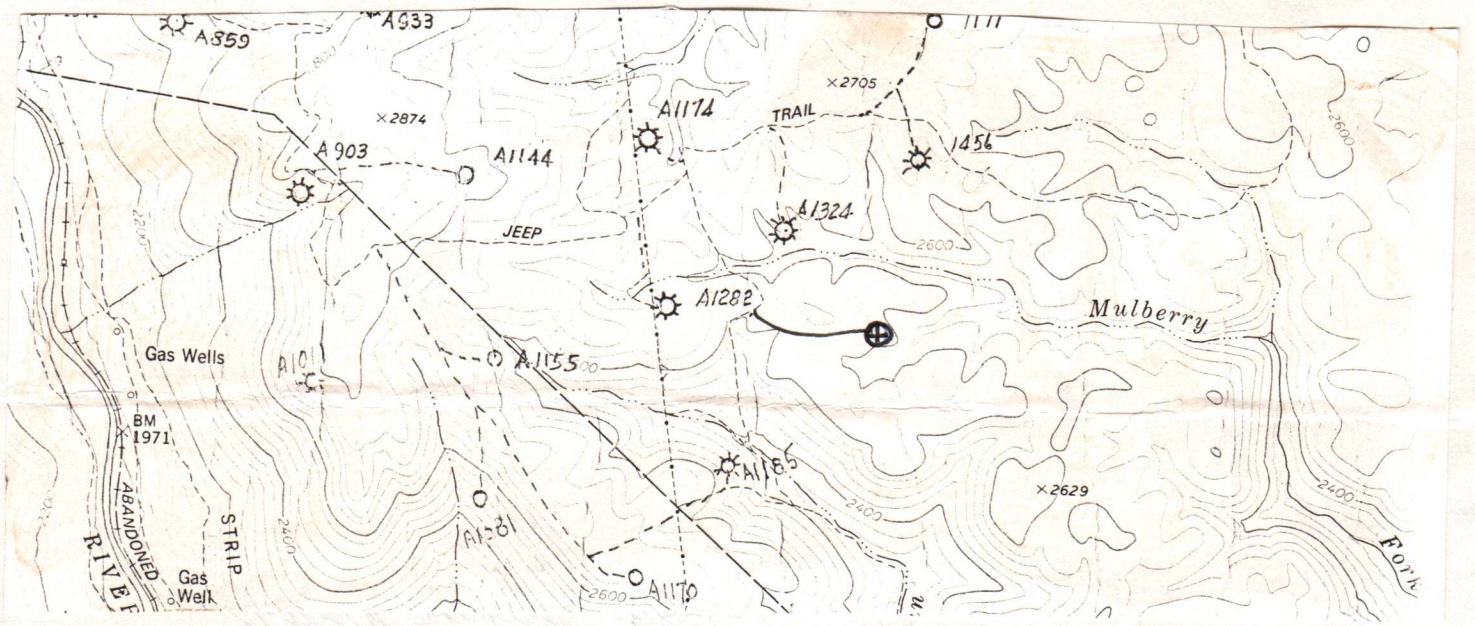
PHONE NO. _____

LEGEND

WELL SITE

ACCESS ROAD

Attach or photocopy section of involved topographic map, Quadrangle CASSIYS 7.5 MIN.



Sketch to include well location, existing access road, roads to be constructed, well site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

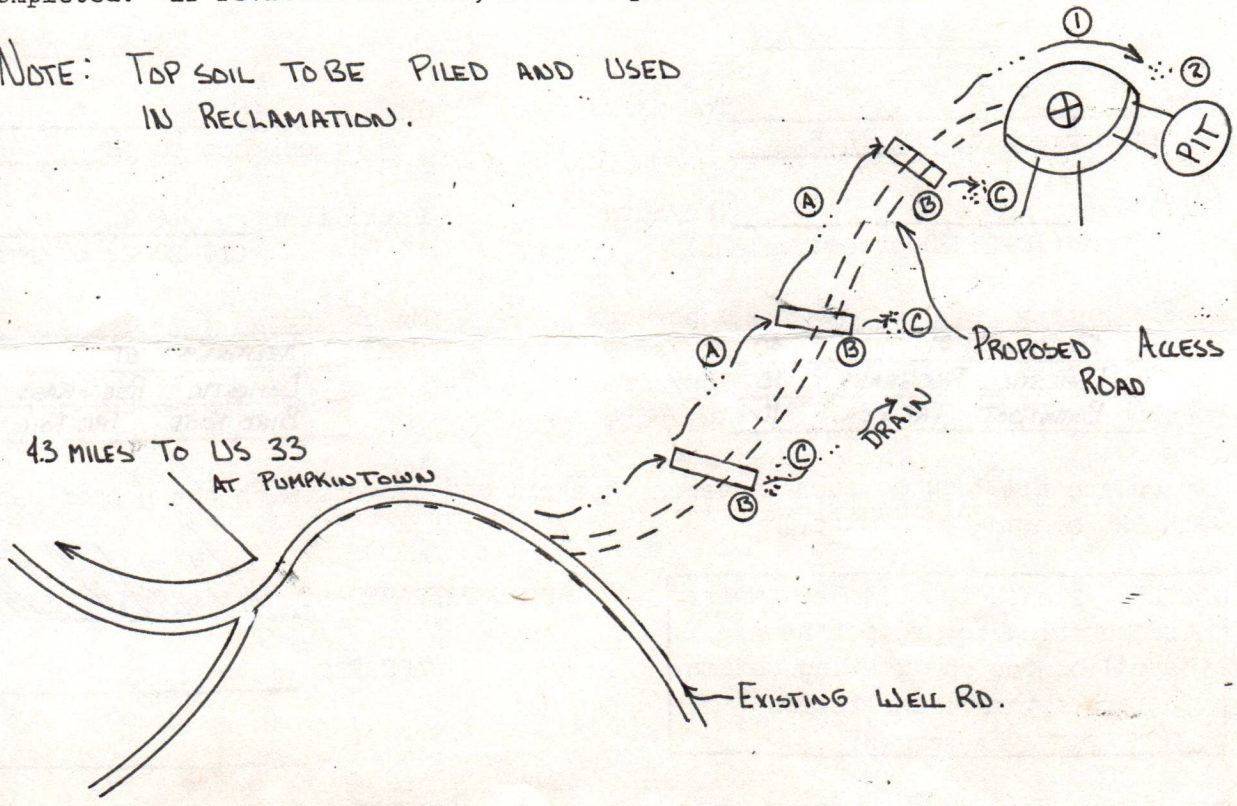
LEGEND

Property boundary	Diversion
Road	Spring
Existing fence	Wet Spot
Planned fence	Building
Stream	Drain pipe
Open ditch	Waterway

COMMENTS

Slope of access road 5 % -- Cuts to be on a 2:1 slope or less. Access road subject to change by company or landowner. All ditches and culverts will be maintained after construction is completed. If revision is made, revised plan will be submitted.

NOTE: TOP SOIL TO BE PILED AND USED IN RECLAMATION.



1) Date: November 28, 1983
2) Operator's
Well No. A-1463 (McMullan)
3) API Well No. 47 - 083-0852
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OFFICE OF OIL & GAS
NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SURFACE OWNER(S) OF RECORD TO BE SERVED
(i) Name Westvaco
Address 203 Randolph Avenue
Elkins, WV 26452
(ii) Name _____
Address _____
(iii) Name _____
Address _____

5(i) COAL OPERATOR See Attached
Address _____
5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name See Attached
Address _____
Name _____
Address _____
5(iii) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:
(1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
(2) The plat (surveyor's map) showing the well location on Form IV-6; and
(3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

6) EXTRACTION RIGHTS
Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
7) ROYALTY PROVISIONS
Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? ~~XXX~~ No
If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

DEPT. OF MINES
OIL & GAS DIVISION

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DEC 7 - 1983

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by
Daniel L. Wheeler
this 28 day of November, 1983.
My commission expires Nov 17, 1990.
Denise C. Spencer
Notary Public, Harrison County,
State of West Virginia

WELL
OPERATOR ALAMCO, INC.
By Daniel L. Wheeler
Its Vice President
Address P. O. Drawer 1740
Clarksburg, WV 26301
Telephone 304-623-6671

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code §§ 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
-----------------------	-----------------------	---------	-----------

Lease dated July 30, 1971			
Goff-Arnold Land Co. unto Manufacturers Light & Heat (Columbia)		1/8	272 449

Columbia Gas unto Allegheny Land & Mineral Co. (Alamco, Inc.)	Not Recorded
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COAL, OIL AND GAS OWNERSHIP

Harry McMullan
P. O. Box 8
Washington, North Carolina 27889

Elizabeth Arnold Vilseck
125 Randolph Avenue
Elkins, West Virginia 26241

Mrs. Charles Philip Holz
1517 Connell Road
Charleston, West Virginia 25314

Esther M. Richter
and Esther M. Cutright
201 29th North
St. Petersburg, Florida 33713

SURFACE

Westvaco
203 Randolph Avenue
Elkins, West Virginia 26241

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DEC 7 - 1983

OIL & GAS DIVISION
DEPT. OF MINES

Phone 636-7760

Permit # 883-0852

Comment

Signed no-objection

No response

Did you receive the required material? IV-2A IV-2B Plat Rec Plan

When?

If you did not comment or sign no-objection was there any particular reason?

Not enough time

Other

Are you also the mineral owner?

Notes: 1/5/84 7:15 p.m. no answer

ATTN: LAND DEPT.
P 349 335 368
RECEIPT FOR CERTIFIED MAIL

A-1463 NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
Permit (See Reverse)

SENT TO
Mrs. Charles Philip Holz
STREET AND NO.
1517 Connell Road
P.O., STATE AND ZIP CODE
Charleston, WV 25304

POSTAGE \$

CERTIFIED FEE \$

SPECIAL DELIVERY \$

RESTRICTED DELIVERY \$

SHOW TO WHOM AND DATE DELIVERED \$

SHOW TO WHOM AND ADDRESS OF DELIVERY \$

SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY \$

SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY \$

TOTAL POSTAGE AND FEES \$

POSTMARK OR DATE

CLARKSBURG, WEST VIRGINIA 26301

DEC 7 AM 1983

263

PS Form 3800, Apr. 1976

DEPT. OF MINES
OIL & GAS DIVISION

DEC 7 - 1983

RECEIVED

PS Form 3800, Apr. 1976

SENT TO Harry McMullan STREET AND NO. P. O. Box 8 P.O. STATE AND ZIP CODE Washington, NC 27889		POSTAGE \$	CERTIFIED FEE \$	CONSULT POSTMASTER FOR FEES
OPTIONAL SERVICES		RETURN RECEIPT SERVICE	SPECIAL DELIVERY	RESTRICTED DELIVERY
SHOW TO WHOM AND DATE DELIVERED	SHOW TO WHOM AND ADDRESS OF DELIVERY	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	
TOTAL POSTAGE AND FEES \$				
POSTMARK OR DATE				
CLARKSBURG, WEST VIRGINIA 26301				
DEC 7 AM 1983				
263				

ATTN: LAND DEPT.
P 349 335 366
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
Permit (See Reverse)

PS Form 3800, Apr. 1976

SENT TO Westvaco STREET AND NO. 205 Randolph Avenue P.O. STATE AND ZIP CODE Richmond, Virginia 26241		POSTAGE \$	CERTIFIED FEE \$	CONSULT POSTMASTER FOR FEES
OPTIONAL SERVICES		RETURN RECEIPT SERVICE	SPECIAL DELIVERY	RESTRICTED DELIVERY
SHOW TO WHOM AND DATE DELIVERED	SHOW TO WHOM AND ADDRESS OF DELIVERY	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	
TOTAL POSTAGE AND FEES \$				
POSTMARK OR DATE				
CLARKSBURG, WEST VIRGINIA 26301				
DEC 7 AM 1983				
263				

ATTN: LAND DEPT.
P 349 335 370
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
Permit (See Reverse)

ATTN: LAND DEPT.
P 349 335 367
RECEIPT FOR CERTIFIED MAIL

A-1463 NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
Permit (See Reverse)

SENT TO
Elizabeth A. Vilseck
STREET AND NO.
125 Randolph Avenue
P.O., STATE AND ZIP CODE
Elkins, WV 26241

POSTAGE \$

CERTIFIED FEE \$

SPECIAL DELIVERY \$

RESTRICTED DELIVERY \$

SHOW TO WHOM AND DATE DELIVERED \$

SHOW TO WHOM AND ADDRESS OF DELIVERY \$

SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY \$

SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY \$

TOTAL POSTAGE AND FEES \$

POSTMARK OR DATE

CLARKSBURG, WEST VIRGINIA 26301

DEC 7 AM 1983

263

PS Form 3800, Apr. 1976

PS Form 3800, Apr. 1976

SENT TO Esther M. Richter STREET AND NO. Esther N. Cutright P.O. STATE AND ZIP CODE 201 29th North Postage Petersburg, VA 33713		POSTAGE \$	CERTIFIED FEE \$	CONSULT POSTMASTER FOR FEES
OPTIONAL SERVICES		RETURN RECEIPT SERVICE	SPECIAL DELIVERY	RESTRICTED DELIVERY
SHOW TO WHOM AND DATE DELIVERED	SHOW TO WHOM AND ADDRESS OF DELIVERY	SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY	
TOTAL POSTAGE AND FEES \$				
POSTMARK OR DATE				
CLARKSBURG, WEST VIRGINIA 26301				
DEC 7 AM 1983				
263				

ATTN: LAND DEPT.
P 349 335 369
RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED—
NOT FOR INTERNATIONAL MAIL
Permit (See Reverse)

RECEIVED



FEB 21 1984 STATE OF WEST VIRGINIA

OIL & GAS DIVISION DEPARTMENT OF MINES
DEPT. OF MINES and GAS DIVISION

Date February 14, 1984
Operator's
Well No. A-1463
Farm McMullan
API No. 47 - 083 - 0852

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: OIL / GAS / LIQUID INJECTION / WASTE DISPOSAL
(If "Gas", Production / Underground Storage / Deep / Shallow)

LOCATION: Elevation: 2602' Watershed Mulberry Fork
District: Roaring Creek County: Randolph Quadrangle: Cassity 7.5'

COMPANY ALAMCO, INC
200 West Main Street
ADDRESS Clarksburg, West Virginia 26301

DESIGNATED AGENT ALAMCO, INC
200 West Main Street
ADDRESS Clarksburg, West Virginia 26301

SURFACE OWNER Westvaco
ADDRESS 203 Randolph St., Elkins, WV

MINERAL RIGHTS OWNER Neva McMullan
ADDRESS P.O. Box 8, Washington, NC 27889

OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart
ADDRESS P.O. Box 345, Jane Lew, WV

PERMIT ISSUED December 23, 1983

DRILLING COMMENCED January 2, 1984

DRILLING COMPLETED January 8, 1984

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

Casing & Tubing Size Cond.	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
20-16			
13-10"			
9 5/8"			
8 5/8"	795'	795'	to surface
7"			
5 1/2"			
4 1/2"	5124'	5124'	w/410 sks 2600'
3"			
2"			
Liners used			

GEOLOGICAL TARGET FORMATION Elk DEPTH 5200 FEET

Depth of completed well 5284 feet Rotary x / Cable Tools _____
Water Strata depth: Fresh 30 & 60 feet Salt _____ feet
Coal seam depth: 75-79, 100-102, 410-413, 670-672 Is coal being mined in this area? No

OPEN FLOW DATA
Producing formation Elk, Alexander, Benson, Balltown Pay zone depth See back feet
Gas: Initial open flow 7 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 1508 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 1275 psig (surface measurement after 3 weeks shut-in
(If applicable due to multiple completion--))
Second producing formation _____ Pay zone dpeth _____ feet
Gas: Initial open flow _____ 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 _____ psig (surface measurement) after _____ hours shut-in
(continue on reverse side)

RMO 852

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

Well was fractured January 13, 1984
 Perforations: 2946 - 2954 Balltown 4996 - 5003 Elk
 3718 - 3720 Benson
 4248 - 4249
 4254 - 4255
 4250 - 4260
 4290 - 4290 Alexander

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill	0	10	1/2" stream water @ 30'
Sand	10	75	1" stream water @ 60'
Coal	75	79	Gas check @ 1620' No show
Sand	79	100	Gas check @ 1992' No show
Coal	100	102	Gas check @ 2309' No show
Sand & Shale	102	410	Gas check @ 2404' No show
Coal	410	413	Gas check @ 2914' No show
Sand & Shale	413	670	Gas check @ 3072' 6 MCF/D
Coal	670	672	Gas check @ 3480' 4 MCF/D
Sand & Shale	672	1215	Gas check @ 3607' 5 MCF/D
Red Rock	1215	1260	Gas check @ 3734' 4 MCF/D
Little Lime	1260	1340	Gas check @ 4426' 5 MCF/D
Big Lime	1340	1495	Gas check @ 4903' 5 MCF/D
Injun	1495	1589	Gas check @ 5062' 7 MCF/D
Sand & Shale	1589	1680	Gas check @ 5284' 7 MCF/D
Red Rock & Shale	1680	1714	
Sand & Shale	1714	1868	
Red Rock & Shale	1868	1890	
Sand	1890	1935	
Shale & Red Rock	1935	2020	Little Lime 1270'
Sand & Shale	2020	3520	Big Lime 1336'
Riley	3520	3530	Big Injun 1495'
Sand & Shale	3530	3720	Pocono 1613'
Benson	3720	3730	Weir 1696'
Sand & Shale	3730	4990	Gordon Stray 1890'
Brown Sand	4990	5020	Gordon 1942'
Sand & Shale	5020	5284 T.D.	4th Sand 1975' 4th A Sand 2071' 5th Sand 2179' Bayard 2250' Speechley 2363' Balltown 2941' Riley 3547' Benson 3713' Alexander 4205' 1st Elk 4991' 2nd Elk 5052' 3rd Elk 5177'

GAMMA RAY LOG TOPS

(Attach separate sheets as necessary)

ALAMCO, INC.

Well Operator

By: Raymond L. Mazza
 Vice President Oil & Gas Operations

Date: February 14, 1984

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 coal, encountered in the drilling of a well."

RECEIVED

JAN 9 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 83-832

Oil or Gas Well
(KIND)

Company Alanco

Address _____

Farm Neva McMullen

Well No. A-1463

District Roaring ck County Putnam

Drilling commenced _____

Drilling completed _____ Total depth 810

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8 1/4	<u>195</u>	<u>195</u>	<u>200 shot</u>
6 5/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: _____

1-4-84
DATE

Phillip Dancy
DISTRICT WELL INSPECTOR

Form 20
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

DATE

I hereby certify I visited the above well on this date.

DISTRICT WELL INSPECTOR



RECEIVED
AUG 14 1984

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

COMPANY Amco

PERMIT NO 83-852 12/83

FARM & WELL NO McMullen H-1463

DIST. & COUNTY Roaring ck Randolph

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
25.03	High-Pressure Drilling		
16.01	Required Permits at Wellsite		
15.03	Adequate Fresh Water Casing		
15.02	Adequate Coal Casing		
15.01	Adequate Production Casing		
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Waste		
23.04	Reclaimed Drilling Pits		
23.05	No Surface or Underground Pollution		
23.07	Requirements for Production & Gathering Pipelines		
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings		

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Phillip Gray

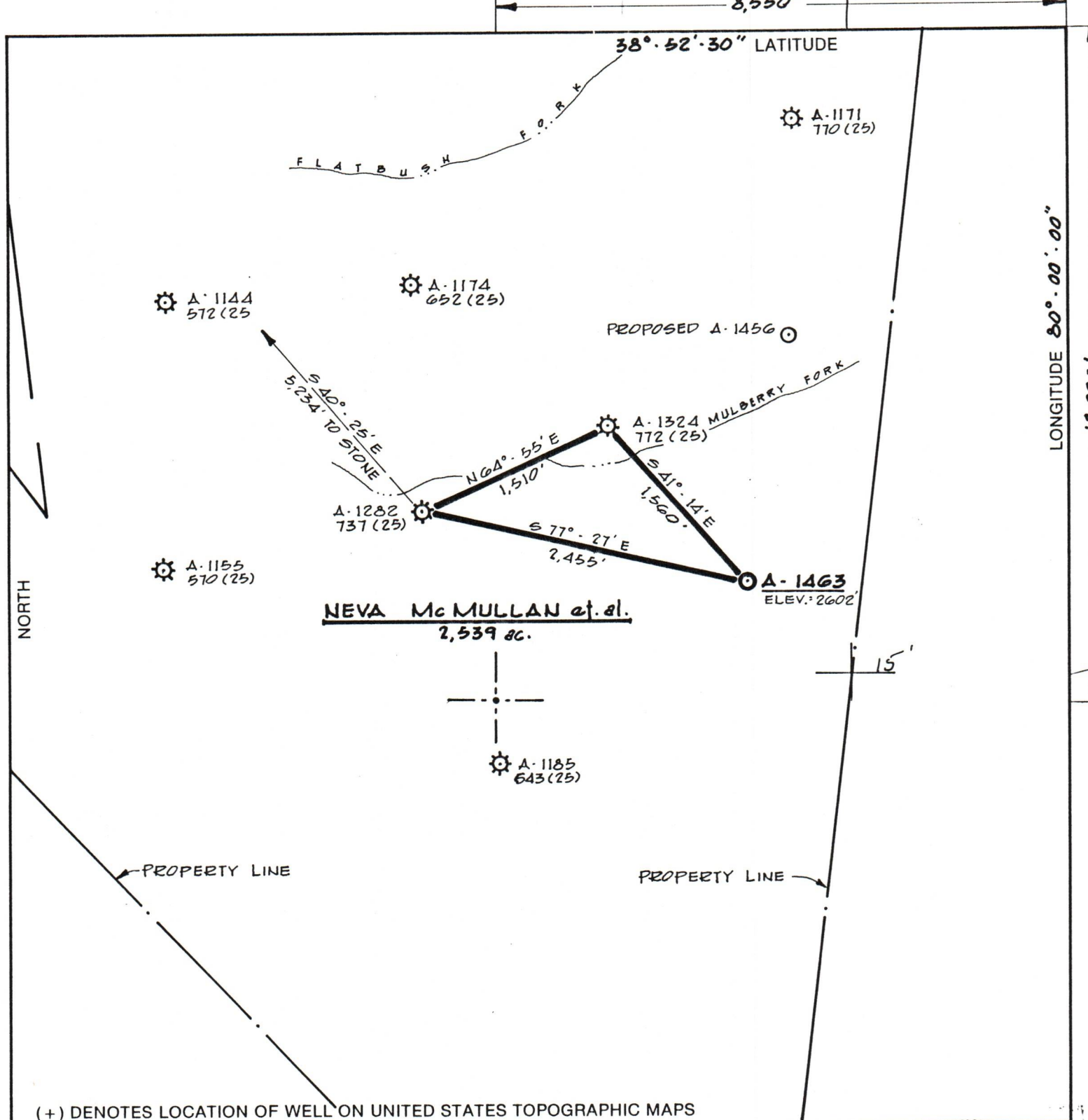
DATE 8-7-84

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. ...
Administrator-Oil & Gas Division

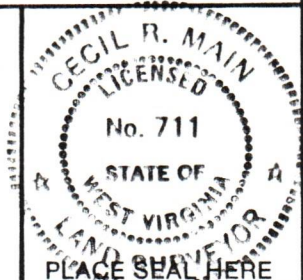
August 21, 1984

DATE



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION API 772, A-1324
ELEV. = 2,604'

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.
 (SIGNED) Cecil R. Main
 R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE NOVEMBER 18, 19 83
 OPERATOR'S WELL NO. A-1463
 API WELL NO.

47 083 0852
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 2,602 WATERSHED MULBERRY FORK
 DISTRICT ROARING CREEK COUNTY RANDOLPH
 QUADRANGLE CASSITY 7.5'

SURFACE OWNER WESTVACO ACREAGE 2,539
 OIL & GAS ROYALTY OWNER NEVA McMULLAN et al. LEASE ACREAGE 2,539
 LEASE NO. 2125

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 ELK ESTIMATED DEPTH 5,200
 WELL OPERATOR ALAMCO DESIGNATED AGENT DANIEL WHEELER
 ADDRESS P.O. BOX 1740, CLARKSBURG, W.V. ADDRESS P.O. BOX 1740, CLARKSBURG, W.V.
26302-1740 26302-1740

FORM IV-6 (8-78)
H.T. HALL

COUNTY NAME RANDOLPH-083
PERMIT 852