



1) Date: January 24, 19 84
 2) Operator's Well No. A-1534 McMullan
 3) API Well No. 47 - 083 - 0879
 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: 2524' Watershed: Long Run
 District: Middle Fork County: Randolph Quadrangle: Cassity 7.5'
- 6) WELL OPERATOR Alamco, Inc. 7) DESIGNATED AGENT D. L. Wheeler
 Address P. O. Drawer 1740 Address P. O. Drawer 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, 5300' feet
 13) Approximate trata depths: Fresh, 182, 164, 309 feet; salt, _____ feet.
 14) Approximate coal seam depths: 309, 315 Is coal being mined in the area? Yes No
- 15) CASING AND TUBING PROGRAM

RECEIVED
 JAN 26 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

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	Top
Conductor	16"				X	20'	20'	Cement to Surface	
Fresh water									
Coal	8-5/8"		20#	X		900'	900'	Cement to Surface	NEAT
Intermediate									
Production	4-1/2"		J.55	X		5300'	5300'	Req. by Rule	Depth set 01
Tubing			10.50#						
Liners									

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-083-0879 Date February 14, 19 84

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 February 14, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <u>ls</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>25380</u>
----------------------	------------------	-----------------	-------------------	-------------------

[Signature]
 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

RECEIVED
JAN 5 8 1984

DEPT. OF MINES
OIL & GAS DIVISION

1) WELL LOCATION: B (If Gas) Production, Elevation: 5254, Watered: ...
2) WELL OPERATOR: ...
3) DRILLING CONTRACTOR: ...
4) APPROXIMATE COAL BEAN DEPTH: ...
5) APPROXIMATE STRAIN DEPTH: ...
6) ESTIMATED DEPTH OF COMPLETED WELL: ...
7) OTHER PHYSICAL CHANGE IN WELL ASPECTS: ...
8) GEOLOGICAL TARGET FORMATION: ...
9) CASING AND TUBING PROGRAM: ...

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	Follow-up inspection(s)
Well work started	"
Completion of the drilling process	"
Well Record received	"
Reclamation completed	"

OTHER INSPECTIONS

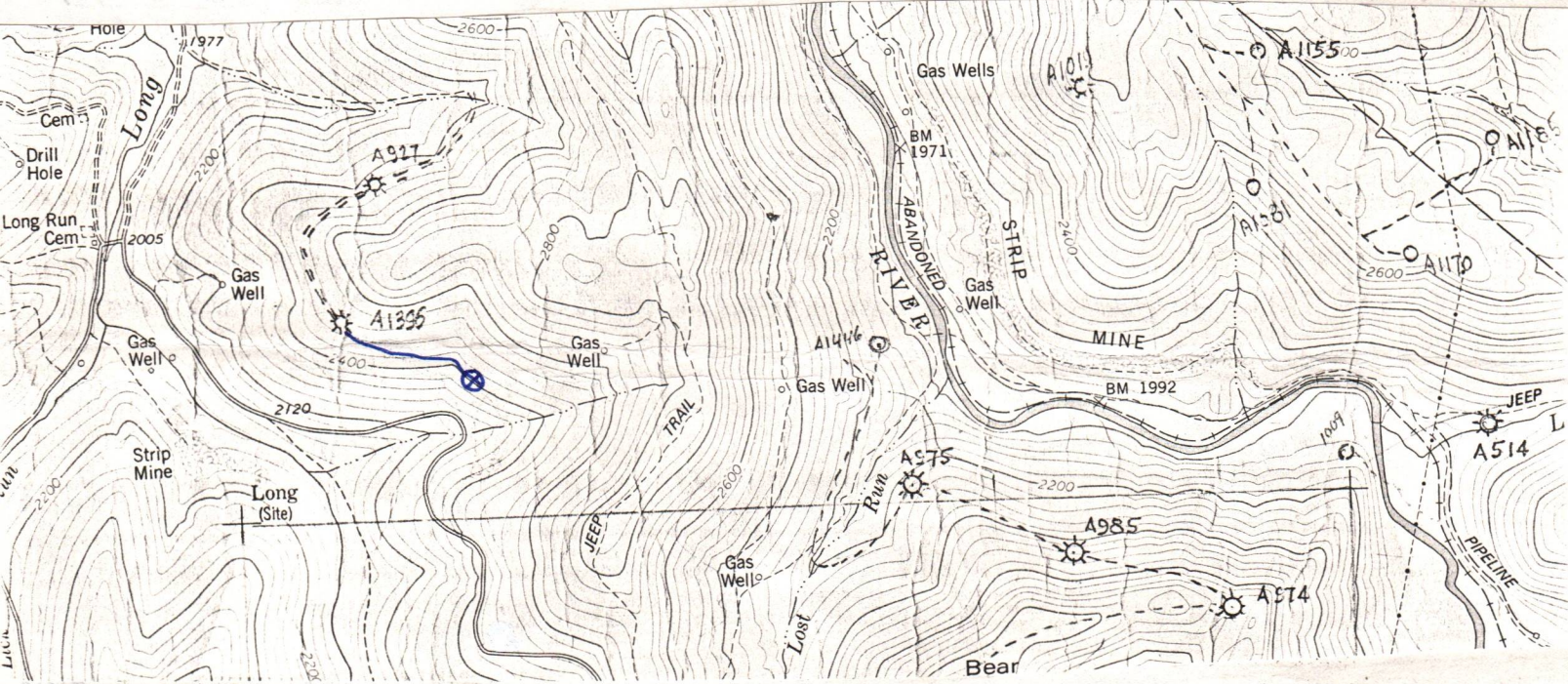
Reason: _____
Reason: _____

Blakel
Agent
Casing
Fee

08/25/2023

LEGEND
WELL SITE
ACCESS ROAD

Attach or photocopy section of involved topographic map
Quadrangle CASSITY 7.5'

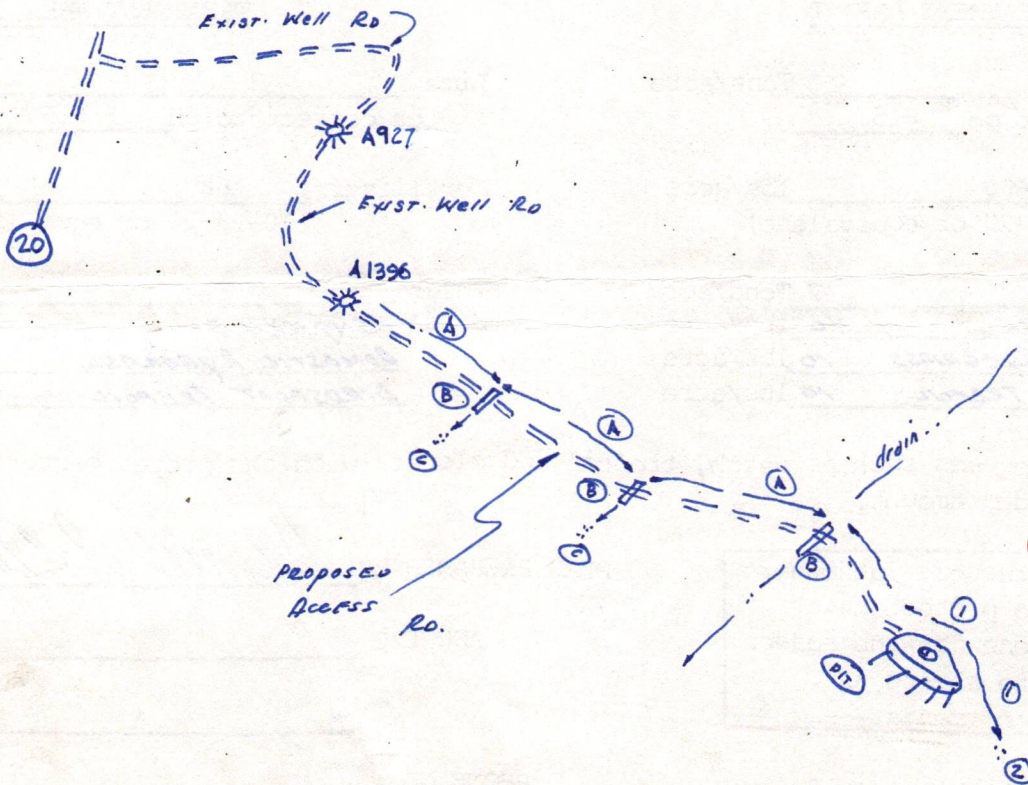


Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

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



08/25/2023

1) Date: January 24, 19 84
2) Operator's Well No. A-1534 McMullan
3) API Well No. 47 - 083 - 0879
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 26241

(ii) Name _____
Address _____

(iii) Name _____
Address _____

5(i) COAL OPERATOR N/A
Address _____

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Amex Coal Co.
Address 105 S. Meridan Street
Indianapolis, Ind. 46225

Name International Coal Co.
Address Greenbrier Valley Blg.
Lewisburg, WV 24901

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.

RECEIVED
JAN 26 1984

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.)

OIL & GAS DIVISION
DEPT. OF MINES

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.

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 24 day of January, 19 84.
My commission expires 11/19, 19 90.

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

Denise C. Spencer
Notary Public, Harrison County,
State of West Virginia

08/25/2023

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)

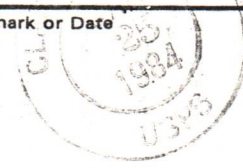
Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (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:

<u>Grantor, lessor, etc.</u>	<u>Grantee, lessee, etc.</u>	<u>Royalty</u>	<u>Book</u>	<u>Page</u>
Harry McMullan, et al	Manufacturers Light	7/8	272	1433
Columbia Gas Corp.	ALAMCO Nat Co.	1/8	17	701

A-1534
 P 406 781 049
 RECEIPT FOR CERTIFIED MAIL

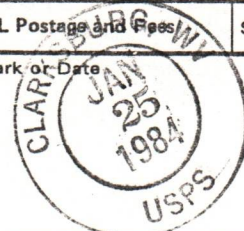
NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to	
International Coal Company Greenbrier Valley Bldg. Lewisburg, WV 24901	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 	

PS Form 3800, Feb. 1982

A-1534
 P 406 781 048
 RECEIPT FOR CERTIFIED MAIL

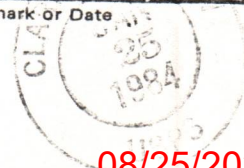
NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to	
Amax Coal Company 105 South Meridan Street Indianapolis, Indiana	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 	

PS Form 3800, Feb. 1982

A-1534
 P 406 781 047
 RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to	
Westvac 203 Randolph Avenue Elkins, West Virginia 2624	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date 	

PS Form 3800, Feb. 1982

RECEIVED
 JAN 26 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

08/25/2023

RECEIVED

JAN 2 1921

Oil & Gas Division

DEPT. OF MINES

08/25/2023



Date May 7, 1984
 Operator's
 Well No. A-1534
 Farm McMullan
 API No. 47 - 083 - 0879

RECEIVED
 MAY 18 1984

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES

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

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: 2524' Watershed Long Run
 District: Middle Fork 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, Elkins, WV 26241

MINERAL RIGHTS OWNER Harry 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 February 14, 1984

DRILLING COMMENCED April 2, 1984

DRILLING COMPLETED April 10, 1984

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
20-16 Cond.			
13-10"			
9 5/8"			
8 5/8"	702'	702'	to surface
7"			
5 1/2"			
4 1/2"	5030'	5030'	w/350 sks 2900'
3"			
2"			
Liners used			

GEOLOGICAL TARGET FORMATION Elk DEPTH 5300 FEET

Depth of completed well 5252 feet Rotary x / Cable Tools _____

Water Strata depth: Fresh 55 & 167 feet Salt _____ feet

Coal seam depth: 180-183, 305-310 Is coal being mined in this area? No

OPEN FLOW DATA

Producing formation 1st Elk Pay zone depth See back feet

Gas: Initial open flow 2 Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 582 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 2 hours

Static rock pressure 1500 psig (surface measurement after 25 hours shut-in

(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth 08/25/2023 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)

Randolph 0879

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

Well was fractured April 23, 1984
Perforations: 4887 - 4895 1st Elk

RECEIVED
MAY 1 1984
OIL & GAS DIVISION
DEPT. OF MINES

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale	0	180	1/4" stream water @ 55'
Coal	180	183	3/4" stream water @ 167'
Sand & Shale	183	305	Gas check @ 1379' No show
Coal	305	310	Gas check @ 1782' No show
Sand & Shale	310	498	Gas check @ 1970' 6 MCF/D
Red Rock	498	509	Gas check @ 3037' No show
Sand & Shale	509	610	Gas check @ 3380' 11 MCF/D
Red Rock	610	683	Gas check @ 4375' 6 MCF/D
Sand & Shale	683	710	Gas check @ 4752' 6 MCF/D
Sand, Shale & Red Rock	710	851	Gas check @ 5067' 6 MCF/D
Sand & Shale	851	983	Gas check @ 5252' 2 MCF/D
Lime & Shale	983	1031	
Lime	1031	1183	
Injun	1183	1280	
Sand & Shale	1280	1290	
Red Rock	1290	1310	Pocono 1282'
Sand & Shale	1310	1390	Gantz 1424'
Red Rock	1390	1719	Gordon 1532'
Sand	1719	1730	Gordon Stray 1661'
Red Rock & Shale	1730	1778	4th Sand 1688'
Sand	1778	1820	4th A Sand 1777'
Red Rock & Shale	1820	1855	5th Sand 1861'
Sand & Shale	1855	1915	Bayard 1950'
Red Rock & Shale	1915	1941	Speechley 2056'
Sand & Shale	1941	5252 T.D.	Balltown 2478'
			Riley 3272'
			Benson 3472'
			Benson-Repeat 3624'
			Alexander 3826'
			1st Elk 4868'
			2nd Elk 4952'
			3rd Elk 5086'

GAMMA RAY LOG TOPS

(Attach separate sheets as necessary)

ALAMCO, INC.

Well Operator

By: Raymond C. Nozza
Vice President Oil & Gas Operations

Date: May 7, 1984

08/25/2023

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."

IV-20
Obverse
1-84

RECEIVED

JUL 18 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
May 22, 1984

COMPANY Alamco, Inc.

PERMIT NO 083-0879 1/84

P. O. Drawer 1740

FARM & WELL NO Harry McMullan #A-1534

Clarksburg, West Virginia 26301

DIST. & COUNTY Middle Fork/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 Scrogg

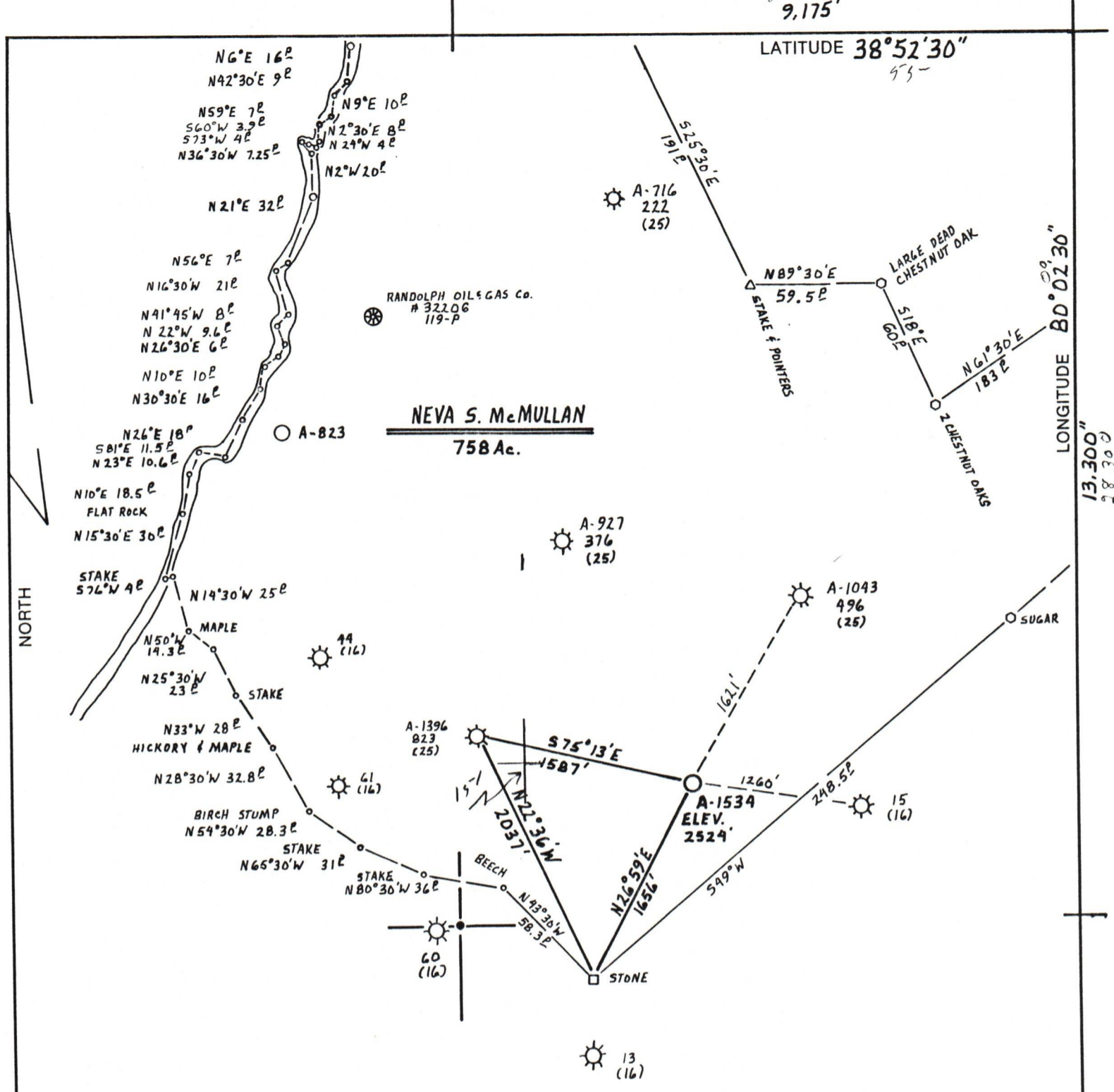
DATE 7-5-84

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

TMS/r1 s

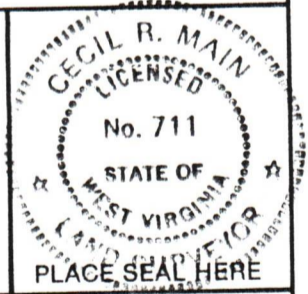
July 23, 1984 08/25/2023
DATE



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

FILE NO. SH
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION Alamco A-1396
API B23 ELEV. 2504'

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 JANUARY 20, 1984
 OPERATOR'S WELL NO. A-1534
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 2524 WATER SHED LONG RUN
 DISTRICT MIDDLE FORK COUNTY RANDOLPH
 QUADRANGLE CASSITY 7.5
 SURFACE OWNER WESTVACO ACREAGE 758 Ac.
 OIL & GAS ROYALTY OWNER NEVA S. McMULLAN LEASE ACREAGE 758 Ac.
 LEASE NO. 1755

COUNTY NAME RAND
 PERMIT 879

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ELK ESTIMATED DEPTH 5300'
 WELL OPERATOR ALAMCO DESIGNATED AGENT DANIEL L. WHEELER
 ADDRESS P.O. Box 1740 ADDRESS P.O. Box 1740
CLARKSBURG, WEST VIRGINIA 26302-1740 CLARKSBURG, WEST VIRGINIA 26302-1740

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

08/25/2023