

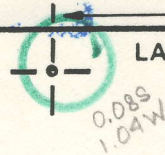
3-17-83

Plot Card GSD

5.550'

LATITUDE 39° 07' 30"

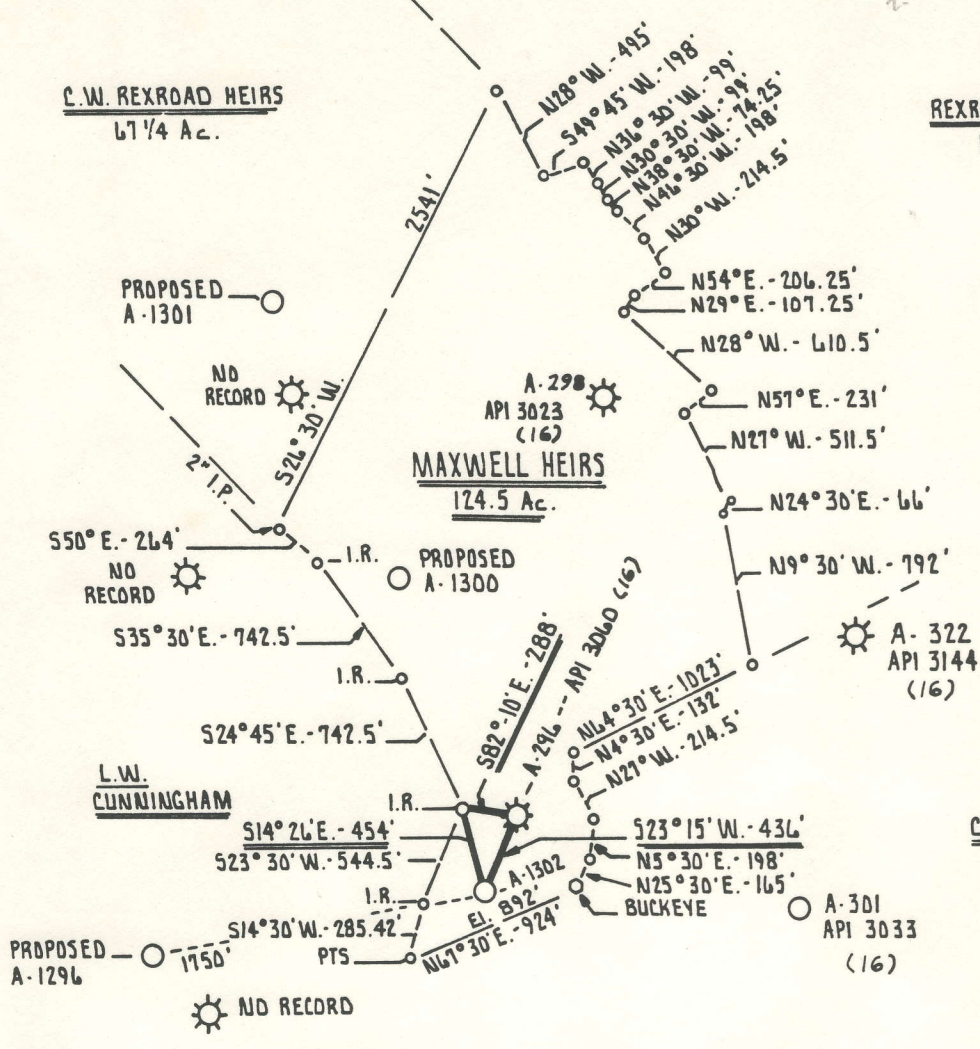
39° 10' - 15'



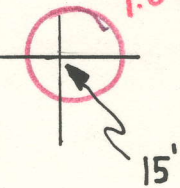
450'

LONGITUDE 81° 05' 00"

NORTH



2.965
1.04W

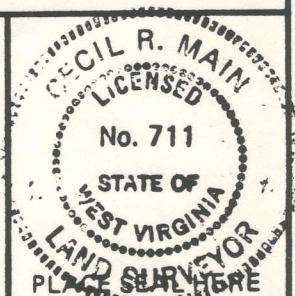


MAP SHEET 80 522-W27

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION API 3060 -- A-296
ELEVATION 882'

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 FEBRUARY 24th, 19 83
OPERATOR'S WELL NO. A-1302
API WELL NO. 47 - 085 - 6342
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 892' WATER SHED INDIAN CREEK
DISTRICT MURPHY COUNTY RITCHIE
QUADRANGLE SMITHVILLE 7.5 ~~7.5~~ Aberrville 15 C
SURFACE OWNER WESTVACO ACREAGE 248.5 Ac.
OIL & GAS ROYALTY OWNER MAXWELL HEIRS LEASE ACREAGE 124.5 Ac.
LEASE NO. 834
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) DEEP

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 5990'
WELL OPERATOR ALLEGHENY LAND and MINERAL Co. 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

6-6 Mahonet (Smithville) (124)
MAR 21 1983

RIT, 6342



Date December 18, 1984
 Operator's _____
 Well No. A-1302
 Farm Maxwell Heirs
 API No. 47 - 085 - 6342

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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES

OIL & GAS DIVISION **OIL and GAS DIVISION**
 DEPT. OF MINES **WELL OPERATOR'S REPORT**

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 892' Watershed Indian Creek
 District: Murphy County: Ritchie Quadrangle: Smithville 7.5'

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

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

SURFACE OWNER Westvaco
 ADDRESS 203 Randolph, Elkins, WV 26241

MINERAL RIGHTS OWNER Maxwell Heirs
 ADDRESS c/o Union National Bank
Clarksburg, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK Samuel
Hersman ADDRESS P.O. Box 66, Smithville, WV

PERMIT ISSUED November 7, 1983

DRILLING COMMENCED November 6, 1984

DRILLING COMPLETED November 11, 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			
11-3/4"	22'	Pulled	
9 5/8"			
8 5/8"	1011'	1011'	to surface
7"			
5 1/2"			
4 1/2"	5836'	5836'	w/490 sks 3000'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Brown Shale DEPTH 5990 FEET

Depth of completed well 5857 feet Rotary x / Cable Tools _____
 Water Strata depth: Fresh 89 feet Salt _____ feet
 Coal seam depth: None listed Is coal being mined in this area? No

OPEN FLOW DATA
 Producing formation Benson-Alexander, Brown Shale Pay zone depth See Back feet
 Gas: Initial open flow 34 Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow 1164 Mcf/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 4 hours
 Static rock pressure 1575 psig (surface measurement after 120 hours shut-in
 (If applicable due to multiple completion--)
 Second producing formation _____ Pay zone depth _____ 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)

JAN 7 1985

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

Well was fractured November 19, 1984
 Perforations: 4616 - 4618 5526 - 5526
 4782 - 4786 5544 - 5544
 4871 - 4876 Benson-Alexander 5548 - 5548
 5550 - 5550
 5436 - 5444 5687 - 5691
 5482 - 5484 5773 - 5777
 5494 - 5496 Brown Shale Rhinestreet 5796 - 5799 Brown Shale Rhinestreet

WELL LOG

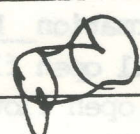
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale & Red Rock	0	45	Damp @ 89'
Sand & Shale	45	185	Gas check @ 1727' 103 MCF/D
Red Rock	185	203	Gas check @ 1885' 103 MCF/D
Sand & Shale	203	270	Gas check @ 2696' 39 MCF/D
Red Rock & Shale	270	305	Gas check @ 3042' 39 MCF/D
Sand & Shale	305	789	Gas check @ 3355' 39 MCF/D
Shale & Red Rock	789	835	Gas check @ 3695' 44 MCF/D
Sand & Shale	835	870	Gas check @ 4008' 39 MCF/D
Red Rock & Shale	870	902	Gas check @ 4353' 39 MCF/D
Sand & Shale	902	998	Gas check @ 4763' 39 MCF/D
Shale & Red Rock	998	1062	Gas check @ 5296' 39 MCF/D
Sand & Shale	1062	1739	Gas check @ 5857' 34 MCF/D
Little Lime	1739	1773	
Sand & Shale	1773	1779	
Big Lime	1779	1824	<u>GAMMA RAY LOG TOPS</u>
Big Injun	1824	1910	
Sand & Shale	1910	5857 T.D.	Pocono 1913'
		<u>Rhinestreet</u>	Weir 2038'
		@ TD.	Berea 2296'
			2nd Berea 2396'
			Gordon 2675'
			Speechley 3360'
			Balltown 3673'
			Riley 4314'
			Benson 4603'
			Alexander 4779'
			Elk 5272'
			Brown Shale 5388'
			5857
			2296
			3561
			8857
			892
			4965

Onondaga = 5794

(Attach separate sheets as necessary)

ALAMCO, INC.

Well Operator

By: Bruce G. Frather 

Date: December 18, 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."



1) Date: October 13, 1983
 2) Operator's Well No. A-1302 Cunningham
 3) API Well No. 47 - 085 - 6342-Ren
 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: 892' Watershed: Indian Creek
 District: Murphy County: Ritchie Quadrangle: Smithville 7.5'
- 6) WELL OPERATOR ALAMCO 7) DESIGNATED AGENT Daniel 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 Samuel N. Hersman 477-3597 Name Development Drilling
 Address P. O. Box 66 Address P. O. Box 1740
Smithville, WV 26178 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, Brown Shale
 12) Estimated depth of completed well, 5990' feet
 13) Approximate strata depths: Fresh, Unknown feet; salt, _____ feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No

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 OCT 20 1983

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		
Conductor	16"				X	20'	20'	Cement to Surface
Fresh water	8-5/8"							
Coal	8-5/8"		20#	X		700'	700'	Cement to Surface <i>By Rule 505</i>
Intermediate								
Production	4-1/2"		J.55 10.50#	X		5990'	5990'	Req. by Rule 15.01
Tubing								
Liners								Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-085-6342-Ren Date November 7, 1983

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 November 7, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:
BLANKET BOND	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<u>24832</u>

[Signature: Michael Lewis]
 Administrator, Office of Oil and Gas

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

File

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



1) Date: March 14, 19 83
 2) Operator's Well No. A-1302 (Maxwell)
 3) API Well No. 47 085 6342
 State 085 County 6342 Permit

DRILLING CONTRACTOR:
Development Drilling, Inc.
P. O. Drawer 1740
Clarksburg, West Virginia 26301

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas XX /
 B (If "Gas", Production / Underground storage / Deep / Shallow XX /)
- 5) LOCATION: Elevation: 892' Watershed: Indian Creek
 District: Murphy County: Ritchie Quadrangle: Smithville 7.5'
- 6) WELL OPERATOR: Allegheny Land and Mineral Company 11) DESIGNATED AGENT: Daniel L. Wheeler
 Address: P. O. Drawer 1740 Address: P. O. Drawer 1740
Clarksburg, West Virginia 26301 Clarksburg, West Virginia 26301
- 7) OIL & GAS ROYALTY OWNER: Maxwell Heirs 12) COAL OPERATOR: n/a
 Address: Union National Bank, etal Address:
Harrisville, WV 26362
 Acreage: 124.5 out of 568
- 8) SURFACE OWNER: Westvaco (Attn: Pete Seaman) 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address: #2 Ferguson Drive Name: Maxwell Heirs
Parkersburgh, WV 26101 Address: Union National Bank, etal
 Acreage: 248.50 Harrisville, West Virginia 26362
 Name:
 Address:
- 9) FIELD SALE (IF MADE) TO:
 Address: Consolidated Gas Supply Corp.
495 West Main Street
Clarksburg, West Virginia 26301
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED: 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name: Samuel N. Horsman 477-3597 Name: n/a
 Address: P. O. Box 66 Address:
Smithville, WV 26178
- 15) PROPOSED WORK: Drill XX / Drill deeper / Redrill / Fracture or stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Brown Shale
 17) Estimated depth of completed well, 5990' feet
 18) Approximate water strata depths: Fresh, unknown feet; salt, feet.
 19) Approximate coal seam depths: none Is coal being mined in the area? Yes / No XX /

20) 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	<u>16"</u>				<u>X</u>	<u>20'</u>	<u>20'</u>		Kinds <u>cement to surface</u>
Fresh water	<u>8-5/8"</u>								Sizes <u>cement to surface</u>
Coal	<u>8-5/8"</u>		<u>20#</u>	<u>X</u>		<u>900'</u>	<u>900'</u>	<u>N/A</u>	Depths set <u>by Rule 15.01</u>
Intermediate									Perforations:
Production	<u>4-1/2"</u>		<u>10.50</u>	<u>X</u>		<u>5990'</u>	<u>5990'</u>		Top <u> </u> Bottom <u> </u>
Tubing									
Liners									

- 21) 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.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing 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? Yes No
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.
- Notary: Signed: Daniel L. Wheeler
 My Commission Expires February 14, 1989 Its: Vice President

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-085-6342 Date March 18, 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. 10) 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.)

Permit expires unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u> </u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u> </u>
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Administrator, Office of Oil and Gas