



Date March 18, 1985
 Operator's
 Well No. A-1522
 Farm Highland
 API No. 47 - 017 - 3268

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES

RECEIVED
 MAR 20 1985

OIL & GAS DIVISION
 DEPT. OF MINES
 OF
 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: 1070' Watershed Riggins Run
 District: McClellan County: Doddridge Quadrangle: Smithburg 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 Arby Glaspell
 ADDRESS C P Star Route, West Union, WV 26456

MINERAL RIGHTS OWNER Cecil Highland
 ADDRESS c/o Empire Bank, Clarksburg, WV 26301

OIL AND GAS INSPECTOR FOR THIS WORK Stephen

Casey ADDRESS Rt 2, Jane Lew, WV 26378

PERMIT ISSUED December 7, 1983

DRILLING COMMENCED June 12, 1984

DRILLING COMPLETED June 19, 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.			
11-3/4"	31'	31'	
9 5/8"			
8 5/8"	1094'	1094'	to surface
7"			
5 1/2"			
4 1/2"	5188'	5188'	w/425 sks 3150'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander DEPTH 5520 FEET

Depth of completed well 5550 feet Rotary x / Cable Tools
 Water Strata depth: Fresh feet Salt 4 feet
 Coal seam depth: None listed Is coal being mined in this area? No

OPEN FLOW DATA

Producing formation Benson, Riley, Warren,
Gordon, Pocono, Big Injun Pay zone depth See Back feet
 Gas: Initial open flow 133 Mcf/d Oil: Initial open flow Bbl/d
 Final open flow 84 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 100 psig (surface measurement after 161 days 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)

APR 01 1985

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

Well was fractured June 29 & August 27, 1984
Perforations: 2076 - 2088 Big Injun

4864 - 4866
5008 - 5011
5012 - 5014 Riley
5093 - 5096 Benson
PLUG BACK:
5550-5400 6% Gel
5400-5300 35 sks
5300-5148 6% Gel

2135 - 2144 Pocono
2758 - 2764 Gordon
3484 - 3486
3490 - 3492
3518 - 3520 Warren

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Fill	0	10	1/2" stream of water @ 171'
Sand & Shale	10	44	Gas check @ 2242' No show
Red Rock	44	57	Gas check @ 2553' No show
Sand & Shale	57	148	Gas check @ 3045' No show
Red Rock	148	158	Gas check @ 3552' No show
Sand & Shale	158	260	Gas check @ 3811' No show
Red Rock & Shale	260	302	Gas check @ 4091' No show
Sand & Shale	302	391	Gas check @ 4459' No show
Shale & Red Rock	391	410	Gas check @ 4521' No show
Sand & Shale	410	890	Gas check @ 5189' No show
Red Rock & Shale	890	945	Gas check @ 5550' 133 MCF/D
Sand & Shale	945	1932	
Little Lime	1932	1950	
Sand & Shale	1950	1976	
Big Lime	1976	2060	
Big Injun	2060	2120	
Sand & Shale	2120	5550 T.D.	

Alex @ D

GAMMA RAY LOG TOPSS ✓

- Pocono 2108'
- Weir 2337'
- Berea 2537'
- Gordon 2750'
- 5th Sand 3044'
- Warren 3418'
- Spechley 3696'
- Balltown 3985'
- Riley 4863'
- Benson 5090'

(Attach separate sheets as necessary)

ALAMCO, INC.
Well Operator _____
By: *James P. Allen*
Date: March 18, 1985

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."



FORM 11-2072
(Obsolete)
7-83

RECEIVED

NOV 8 1983

- Date: Nov. 18, 19 83
- Operator's Well No. A-1522 (Highland)
- API Well No. 47-017-3268 State County Permit

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

OIL & GAS DIVISION
DEPT. OF MINES

- WELL TYPE: A Oil Gas XX
- LOCATION: B (If "Gas", Production X)
Elevation: 1070' / 1070' / 1070'
District: McClellan / Doddridge / Doddridge
County: Smithburg, WV / Smithburg, WV / Smithburg, WV
Quadrangle: Smithburg, WV 7.5'
- WELL OPERATOR Alamco, Inc.
Address P. O. Box 1740 / P. O. Box 1740 / P. O. Box 1740
Clarksburg, WV 26301 / Clarksburg, WV 26301 / Clarksburg, WV 26301
- OIL & GAS INSPECTOR TO BE NOTIFIED
Name Stephen Casey
Address Route #2 / Jane Lew, WV 26378 / Jane Lew, WV 26378
Clarksburg, WV 26301 / Clarksburg, WV 26301 / Clarksburg, WV 26301
- PROPOSED WELL WORK: Drill XX / deeper / Drill deeper / Perforate new formation XX
Plug off old formation / Perforate new formation
- GEOLOGICAL TARGET FORMATION, Alexander
Estimated depth of completed well, 279 feet; salt, 279 feet; 5520' feet
Approximate true depths: Fresh, 279 feet; salt, 279 feet.
Approximate coal seam depths: None Is coal being mined in the area? Yes XX / No XX
- 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								
Coal	8-5/8"		20#	X		900'	900'	Cement to surface
Intermediate			J.55					
Production	4-1/2"		10.50#	X		5520'	5520'	Req. by Rule 15.101
Tubing								
Liners								

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3268 Date December 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 December 7, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>BB</u>	<u>MH</u>	<u>MH</u>	<u>MH</u>	<u>25031</u>

[Signature]
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.
See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File

