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OIL & GAS DIVISION
DEPT. of MINES

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

Date August 28, 1984

Operator's

Well No. A-1519

Farm Ballouz

API No. 47 - 017 - 3283

OIL and GAS DIVISION

WELL OPERATOR'S REPORT
OF

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: 1065'

Watershed Little Battle Run

District: McClellan

County: Doddridge

Quadrangle: Salem 7.5'

COMPANY ALAMOO, INC

200 West Main Street

ADDRESS Clarksburg, West Virginia 26301

DESIGNATED AGENT ALAMOO, INC

200 West Main Street

ADDRESS Clarksburg, West Virginia 26301

J. O. Kelly

SURFACE OWNER c/o Mrs. W.P. McCormick

ADDRESS 302 Arcadia Dr., Anderson, SC 29621

A.C. Ballouz Estate

MINERAL RIGHTS OWNER c/o Mary Davis

1010 S. State St., Rt. 2

ADDRESS New Martinsville, WV 26155

OIL AND GAS INSPECTOR FOR THIS WORK Stephen

Casey ADDRESS Rt. 2, Bx 232-D, Jane Lew, WV

PERMIT ISSUED January 6, 1984

DRILLING COMMENCED July 15, 1984

DRILLING COMPLETED July 20, 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"			
9 5/8"			
8 5/8"	1095'	1095'	to surface
7"			
5 1/2"			
4 1/2"	5464'	5464'	w/525 sks 3000'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander

DEPTH 5700

FEET

Depth of completed well 5560 feet

Water Strata depth: Fresh 40 & 84 feet

Coal seam depth: None listed feet

OPEN FLOW DATA

Producing formation Alexander, Benson, Balltown, Warren

Gas: Initial open flow 58 Mcf/d

Final open flow 984 Mcf/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1510 psig (surface measurement after 2 weeks shut-in

(If applicable due to multiple completion--)

Second producing formation

Gas: Initial open flow _____ Mcf/d

Final open flow _____ Mcf/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)

OCT 1 1984

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

Well was fractured July 31, 1984
 Perforations: 3428 - 3432 5348 - 5351
 3438 - 3441 Warren 5355 - 5359
 4050 - 4055 Balltown 5361 - 5364 Alexander
 5050 - 5056 Benson

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Sand, Shale & Red Rock	0	139	Damp @ 40'
Sand & Shale	139	250	1/4" stream water @ 84'
Red Rock & Shale	250	293	Gas check @ 1794' No show
Sand	293	315	Gas check @ 2122' 103 MCF/D
Red Rock	315	353	Gas check @ 2554' 30 MCF/D
Sand & Shale	353	444	Gas check @ 3309' 33 MCF/D
Sand, Shale & Red Rock	444	458	Gas check @ 3958' 30 MCF/D
Sand & Shale	458	530	Gas check @ 4709' 39 MCF/D
Shale & Red Rock	530	600	Gas check @ 4865' 42 MCF/D
Sand & Shale	600	1100	Gas check @ 5050' 58 MCF/D
Red Rock, Sand & Shale	1100	1872	
Little Lime	1872	1879	
Sand & Shale	1879	1942	
Big Lime	1942	2021	
Big Injun	2021	2080	
Sand & Shale	2080	5560 T.D.	
		ALL V @ T.D.	

GAMMA RAY LOG TOPS

Pocono 2100'
 Weir 2272'
 Berea 2492'
 Gordon Stray 2622'
 Gordon 2704'
 Warren 3364'
 Spechley 3652'
 Balltown 3893'
 Riley 4790'
 Benson 5048'
 Leopold 5236'
 Alexander 5316'

(Attach separate sheets as necessary)

Well Operator ALAMCO, INC.

By: Maureen Stummerville/step

Date: August 20, 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: December 7, 19 83
 2) Operator's Well No. A-1519 (Ballouz)
 3) API Well No. 47 - 017-3283
 State West Virginia County Putnam Permit

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

- 4) WELL TYPE Gas / Gas / Gas
 Elevation: 1065
 District: McClellan
 5) LOCATION: Little Battle Run / Shallow / Deep
 6) WELL OPERATOR Alamco, Inc. / Doddridge / Quadrangle: Salem, WV 7.5'
 Address P. O. Box 1740 / Clarksville, WV 26301
 7) DESIGNATED AGENT D. L. Wheeler
 Address P. O. Box 1740 / Clarksville, WV 26301
 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Stephen Casey
 Address Rt. 2, Box 232-D
Jane Lew, WV 26378
 9) DRILLING CONTRACTOR:
 Name Development Drilling Co.
 Address P. O. Box 1740 / Clarksville, WV 26301
 10) PROPOSED WELL WORK: Drill / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
 11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5700 feet
 13) Approximate strata depths: Fresh, 105 feet; salt, feet.
 14) Approximate coal seam depths: None 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.	For drilling	Left in well		
Conductor	16"			20'	20'	Cement to surface	
Fresh water							
Coal	8-5/8"		20#	750'	750'	Cement to surface	
Intermediate							
Production	4-1/2"		10.50#X	5700	5700	Req. by Reg. 15.01	
Tubing							
Liners							
							Perforations: Top <u> </u> Bottom <u> </u>

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3283

January 6, 19 84
 Date

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 January 6, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>BB</u>	<u>MW</u>	<u>MW</u>	<u>MW</u>	<u>25176</u>

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

Maryland J. Hines
 Administrator, Office of Oil and Gas

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

