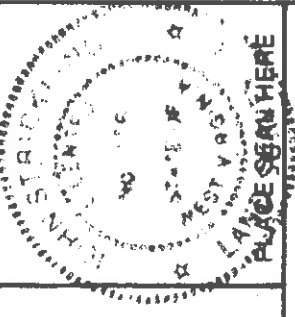


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1: 200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
 ELEV. 1184'

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) *John Stuchling*
 R.P.E. I.L.S. 715



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE 7 FEBRUARY, 19 84
 OPERATOR'S WELL NO. A-1544
 API WELL NO. 47 017 3335 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1184' WATERSHED EAST RUN
 DISTRICT GRANT COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG, W.V. 7 1/2' ACREAGE 119
 SURFACE OWNER HOWARD GAIN
 OIL & GAS ROYALTY OWNER J.N. BENEDUM HEIRS. LEASE ACREAGE 65
 LEASE NO. 299

PROPOSED WORK: DRILL 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 ALEXANDER ESTIMATED DEPTH 5700'
 WELL OPERATOR ALAMCO DESIGNATED AGENT DANIEL L. WHEELER
 ADDRESS P.O. BOX 1740 ADDRESS P.O. BOX 1740
CLARKSBURG, WY 26302 CLARKSBURG, W.V. 26302

6-6 *Smithton - Flint - Soda Lake* (99)

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MAR 20 1985

Date March 15, 1985
Operator's
Well No. A-1544
Farm Hill Heirs
API No. 47 - 017 - 3335



OIL & GAS DIVISION STATE OF WEST VIRGINIA
DEPT. OF MINES DEPARTMENT OF MINES

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: 1310' Watershed East Run
District: Grant 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 Howard Gain

ADDRESS Rt. 1, Box 51, Dearing, GA 30808

MINERAL RIGHTS OWNER Hill Heirs c/o Ed Orr

ADDRESS P.O. Box 624, Tampa, Fla.

OIL AND GAS INSPECTOR FOR THIS WORK Mike

Route 2, Box 114

Underwood ADDRESS Salem, WV 26426

PERMIT ISSUED May 23, 1984

DRILLING COMMENCED November 12, 1984

DRILLING COMPLETED November 19, 1984

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

Casing & Tubing Size 20-16 Cond.	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
11-3/4"	15'	Pulled	
9 5/8"			
8 5/8"	1347'	1347'	to surface
7"			
5 1/2"			
4 1/2"	5582'	5582'	w/520 sks 2600'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander DEPTH 5700 FEET

Depth of completed well 5755 feet Rotary x / Cable Tools feet
Water Strata depth: Fresh 1115 & 1820 feet Salt feet
Coal seam depth: 370-375 Is coal being mined in this area? No

OPEN FLOW DATA

Producing formation Leopold, Benson, Warren Pay zone depth See Back feet
Gas: Initial open flow No show Mcf/d Oil: Initial open flow Bbl/d
Final open flow 311 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1500 psig (surface measurement after 136 hours shut-in
(If applicable due to multiple completion--)

Second producing formation

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	November 28, 1984	
Perforations:	3619 - 3619	5280 - 5284
	3623 - 3625	5331 - <u>5335</u> Benson
	3634 - 3634	
	3658 - 3658	5469 - 5473
	3670 - 3672	5475 - 5475
	3679 - 3681	5478 - 5478
	3686 - <u>3688</u> Warren	5482 - <u>5484</u> Leopold

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay	0	6	Damp @ 1115'
Sand & Shale	6	35	1/4" stream of water @ 1820'
Red Rock	35	55	Gas check @ 2287' No show
Sand & Shale	55	230	Gas check @ 2502' No show
Sand, Shale & Red Rock	230	255	Gas check @ 2720' 60 MCF/D
Sand & Shale	255	370	Gas check @ 3615' No show
Coal	370	375	Gas check @ 4142' No show
Sand & Shale	375	2138	
Little Lime	2138	2158	
Sand & Shale	2158	2180	
Big Lime	2180	2252	
Big Injun	2252	2320	
Sand & Shale	2320		
			Pocono 2326'
			Berea 2746'
			Gordon 2946'
			5th Sand 3238'
			Warren 3600'
			Speechley 3886'
			Balltown 4157'
			Bradford 4612'
			Ritey 5043'
			Benson 5276'
			Leopold 5450'
			Alexander 5538'

(Attach separate sheets as necessary)

ALAMCO, INC.

Well Operator

By: James P. Olive



Date: March 15, 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."

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1) Date: April 27, 1984
2) Operator's A-1544 (Hill Heirs)
Well No.
3) API Well No. 47 - 017 - 3335
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 XX / Gas XX / Production XX / Undergrnd storage XX / Deep XX / Shallow XX
B (If "Gas", Production XX / East Run / Watershed: Smithsburg, WV 7.5)
Elevation: 1310 / County: Doddridge
5) LOCATION: District: Grant / Quadangle: D. L. Wheeler
6) WELL OPERATOR: Alamco, Inc. / P. O. Box 1740 / Address: Clarksburg, WV 26301
7) DESIGNATED AGENT: D. L. Wheeler / P. O. Box 1740 / Address: Clarksburg, WV 26301
8) OIL & GAS INSPECTOR TO BE NOTIFIED: Howard Mike Underwood / Name: Development Drilling Corp. / Address: P. O. Box 1740 / Clarksburg, WV
9) DRILLING CONTRACTOR: Development Drilling Corp. / Name: P. O. Box 1740 / Address: Clarksburg, WV
10) PROPOSED WELL WORK: Drill XX / deeper / Redrill X / Stimulate X / Plug off old formation XX / Perforate new formation XX / Other physical change in well (specify) Alexander

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11) GEOLOGICAL TARGET FORMATION, 5700' feet
12) Estimated depth of completed well, 694-1915 feet; salt, 613-615 feet.
13) Approximate trata depths: Fresh, 115-117 & 613-615 Is coal being mined in the area? Yes
14) Approximate coal seam depths: 115-117 & 613-615

OIL & GAS DIVISION
DEPT OF MINE

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#	1181'	1181'	Cement to surface	
Intermediate			1.55				
Production	4-1/2"		10.50#	5700'	5700'	Req. by Rule	
Tubing							
Liners							

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3335 Date May 23, 1984

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 May 23, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:
BLANKS	LO	TS	TS	12.5

Margaret J. Lane
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

