



MAP SHEET 59 5B-W2

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF
 ACCURACY 1 PART IN 200
 PROVEN SOURCE OF
 ELEVATION ALAMCO WELL A-99
ELEV. 1120' API # 0502

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF MINES.

(SIGNED) Steven R. Hunt
 R.P.E. _____ L.L.S. 707

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE SEPTEMBER 21, 1983
 OPERATOR'S WELL NO. A-1453
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1325 WATERSHED RIGHTHAND FORK
 DISTRICT GRANT COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG 7.5' Centerpoint 15' C
 SURFACE OWNER JOHN O. YERKEY, Et. Al. ACREAGE 79 Ac.
 OIL & GAS ROYALTY OWNER RAYMOND G. YERKEY, Et. Al. LEASE ACREAGE 79 Ac.
 LEASE NO. 287

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

OCT 23 1983

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5,700'
 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

8-6 Smithton-Flint-Sedalia (99)

FORM IV-6 (8-78)

COUNTY NAME
 PERMIT

IV-35
(Rev 8-81)

RECEIVED
FEB 12 1984



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Date February 6, 1984
Operator's
Well No. A-1453
Farm Minter
API No. 47 - 017 - 3262

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 /)

LOCATION: Elevation: 1325' Watershed Righthand Fork
District: Grant County: Doddridge Quadrangle: Smithburg 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 John B. Yerkey, et al
ADDRESS Rt. 2, West Union, Wv 26456

MINERAL RIGHTS OWNER Raymond G. Yerkey, et al
ADDRESS 1923 Chaldoncoy St.,
San Diego, CA 92109

OIL AND GAS INSPECTOR FOR THIS WORK Stephen
Casey ADDRESS Rt. 2, Box 232-D, Jane Lew, WV

PERMIT ISSUED October 21, 1983

DRILLING COMMENCED November 5, 1983

DRILLING COMPLETED November 12, 1983

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"	23'	23'	
9 5/8"			
8 5/8"	1317'	1317'	to surface
7"			
5 1/2"			
4 1/2"	5366'	5366'	w/360 sks 3300'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander DEPTH 5700 FEET

Depth of completed well 5762 feet Rotary x / Cable Tools _____
Water Strata depth: Fresh 100 & 1115 feet Salt _____ feet
Coal seam depth: 646-650, 902-908 Is coal being mined in this area? No

OPEN FLOW DATA

Producing formation Warren, Riley, Benson Pay zone depth See back feet
Gas: Initial open flow 12 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 263 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 720 hours shut-in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone dpeth _____ 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)

FORM IV-35
(REVERSE)

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

Well was fractured November 22, 1983
 Perforations: 3675 - 3677
 3680 - 3684 Warren
 5043 - 5045 Riley
 5269 - 5273 Benson

Plug Back: 5762 - 5366 6% Gel

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill	0	5	Damp @ 100'
Sand & Shale	5	90	1/4' Stream water @ 1115'
Red Rock	90	95	Gas check @ 2108' No show
Sand & Shale	95	646	Gas check @ 2297' No show
Coal	646	650	Gas check @ 2725' 31 MCF/D
Sand & Shale	650	902	Gas check @ 3248' 19 MCF/D
Coal	902	908	Gas check @ 3595' 12 MCF/D
Sand & Shale	908	2152	Gas check @ 3658' 19 MCF/D
Lime	2152	2167	Gas check @ 3938' 19 MCF/D
Shale & Lime	2167	2185	Gas check @ 4502' 12 MCF/D
Lime	2185	2265	Gas check @ 5008' 25 MCF/D
Injun	2265	2286	Gas check @ 5102' 19 MCF/D
Sand & Shale	2286	5762 T.D.	Gas check @ 5290' 31 MCF/D Gas check @ 5384' 25 MCF/D Gas check @ 5767' 12 MCF/D

Alexander
@T.D.

GAMMA RAY LOG TOPS

Little Lime 2144'
 Big Lime 2185'
 Keener 2233'
 Big Injun 2255'
 Pocono 2330'
 Weir 2510'
 Berea 2745'
 Gordon 2943'
 5th Sand 3283'
 Warren 3596'
 Speechley 3880'
 Balltown 4151'
 Bradford 4622'
 Riley 5043'
 Benson 5269'
 Leopold 5451'
 Alexander 5527'

(Attach separate sheets as necessary)

ALAMCO, INC.

Well Operator

By:

Raymond P. Moya

Vice President Oil & Gas Operations

Date:

February 6, 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."

FILE COPY



1) Date: September 28, 19 83
 2) Operator's Well No. A-1453 Minter
 3) API Well No. 47 017 3262
 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 XX /
 B (If "Gas", Production)
 5) LOCATION: Elevation: 1325' / Underground storage / Deep / Shallow XX /
 District: Grant / Watershed: Righthand Fork / County: Doddridge / Quadrangle: Smithburg 7.5'
 6) WELL OPERATOR Alameo, Inc.
 Address P. O. Drawer 1740
Clarksburg, WV 26301
 7) DESIGNATED AGENT Daniel L. Wheeler
 Address P. O. Drawer 1740
Clarksburg, WV 26301
 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Stephen Casey
 Address Route 2, Box 232-D
Jane Lew, WV 26378
 9) DRILLING CONTRACTOR:
 Name Development Drilling, Inc.
 Address P. O. Drawer 1740
Clarksburg, WV 26301
 10) PROPOSED WELL WORK: Drill XX / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) Alexander
 11) GEOLOGICAL TARGET FORMATION, 5700 feet
 12) Estimated depth of completed well, feet
 13) Approximate strata depths: Fresh, feet; salt, 370 feet.
 14) Approximate coal seam depths: Unknown Is coal being mined in the area? Yes

RECEIVED
 OCT - 5 1983
 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		
Conductor	16"							
Fresh water					X	20'	20'	Cement to surface
Coal	8-5/8"		20#	X		900'	900'	Cement to surface
Intermediate					X	5700'	5700'	Required by Rule 15.01
Production	4-1/2"		J.55					
Tubing			10.50#	X				
Liners								

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3262

Date October 21, 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 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 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. This permit expires October 21, 1985

BOND	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing <u>[Signature]</u>	Fee <u>24739</u>
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Margaret J. Hasse
 Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICATION