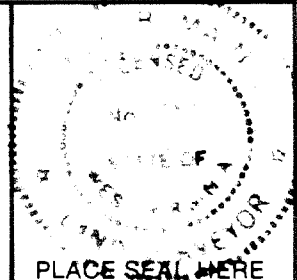


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS MAP SHEET 59 50 W 2

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 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 DECEMBER 6, 1983
 OPERATOR'S WELL NO. A-1452
 API WELL NO. 47-017-3278
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1329' WATERSHED RIGHTHAND FORK
 DISTRICT GRANT COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG 7.5' Centerpoint 15' C

SURFACE OWNER JOHN O. YERKEY, ET. AL ACREAGE 79
 OIL & GAS ROYALTY OWNER RAYMOND G. YERKEY, ET. AL LEASE ACREAGE 79
 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) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5,750
 WELL OPERATOR ALAMCO DESIGNATED AGENT DANIEL L. WHEELER
 ADDRESS P.O. BOX 1740, CLARKSBURG, W.V. 26302-1740 ADDRESS P.O. BOX 1740, CLARKSBURG, W.V. 26302-1740

FORM IV-6 (8-78)

COUNTY NAME PERMIT

6-6 Smithton-Flint-Sedalia (99)

IV-35
(Rev 8-81)**RECEIVED**

AUG 17 1984

OIL & GAS DIVISION
DEPT. OF MINESSTATE OF WEST VIRGINIA
DEPARTMENT OF MINESDate August 15, 1984

Operator's

Well No. A-1452Farm YerkeyAPI No. 47 - 017 - 3278

OIL and GAS DIVISION

WELL OPERATOR'S REPORT
OFDRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGEWELL TYPE: OIL / GAS X / LIQUID INJECTION / WASTE DISPOSAL
(If "Gas", Production / Underground Storage / Deep / Shallow XX)LOCATION: Elevation: 1329' Watershed Righthand Fork
District: Grant County: Doddridge Quadrangle: Smithburg 7.5'COMPANY ALAMCO, INCADDRESS 200 West Main Street
Clarksburg, West Virginia 26301DESIGNATED AGENT ALAMCO, INCADDRESS 200 West Main Street
Clarksburg, West Virginia 26301SURFACE OWNER John O. Yerkey, et alADDRESS Rt. 2, West Union, WV 26456MINERAL RIGHTS OWNER Raymond G. Yerkey, et alADDRESS Rt. 2, West Union, WV 26456OIL AND GAS INSPECTOR FOR THIS WORK RobertBates ADDRESS 109 Minnich St., Weston, WVPERMIT ISSUED December 27, 1983DRILLING COMMENCED June 20, 1984DRILLING COMPLETED July 11, 1984IF 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"			
9 5/8"			
8 5/8"	1313'	1313'	to surface
7"			
5 1/2"			
4 1/2"	5378'	5378'	w/525 sks 3082'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander DEPTH 5750 FEETDepth of completed well 5702 feet Rotary x / Cable Tools _____Water Strata depth: Fresh 120, 1605 feet Salt _____ feetCoal seam depth: None listed Is coal being mined in this area? No

OPEN FLOW DATA

Producing formation Warren, Riley, Benson Pay zone depth See Back feetGas: Initial open flow 6 Mcf/d Oil: Initial open flow _____ Bbl/dFinal open flow 284 Mcf/d Final open flow _____ Bbl/dTime of open flow between initial and final tests 4 hoursStatic rock pressure 1500 psig (surface measurement after _____ 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)

SEP 17 1984

FORM IV-35
(REVERSE)

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

Well was fractured July 18, 1984
 Perforations: 3594 - 3596 ✓ 5245 - 5249 Benson
 3650 - 3653 ✓
 3656 - 3658 ✓
 3705 - 3707 Warren
 4996 - 4998 ✓
 5021 - 5023 ✓
 5158 - 5162 Riley

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	10	1/4" stream water @ 120'
Sand & Shale	10	140	1/4" stream water @ 1605'
Red Rock	140	153	Gas check @ 2711' No show
Sand & Shale	153	220	Gas check @ 3011' No show
Red Rock	220	234	Gas check @ 3486' 6 MCF/D
Shale & Red Rock	234	260	Gas check @ 3795' 6 MCF/D
Sand & Shale	260	320	Gas check @ 4137' 6 MCF/D
Red Rock & Shale	320	490	Gas check @ 4414' 6 MCF/D
Sand & Shale	490	2154	Gas check @ 5058' 6 MCF/D
Little Lime	2154	2190	
Big Lime	2190	2300	
Injun	2300	2510	
Sand & Shale	2510	5702 T.D.	
		(Alex @ T.D.)	
			<u>GAMMA RAY LOG TOPS</u>
			Pocono 2311'
			Weir 2510'
			Berea 2722'
			Gordon 2912'
			5th Sand 3255'
			Warren 3562'
			Speechley 3857'
			Balltown 4128'
			Riley 4990'
			Benson 5242'

(Attach separate sheets as necessary)

ALAMCO, INC.

Well Operator

By: Wayne Somerville /dkp

Date: August 15, 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 8, 19 83
2) Operator's Well No. A-1452 (Yerkey)
3) API Well No. 47 - 017 - 3278
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: 1329 Watershed: Righthand Fork
District: Grant County: Doddridge Quadrangle: Smithburg 7.5'
- 6) WELL OPERATOR Alamco, Inc. 7) DESIGNATED AGENT D. 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 Name Robert Bates 9) DRILLING CONTRACTOR:
Address 109 Minnich Street Name Development Drilling, Inc.
Weston, WV 26452 Address P. O. Box 1740
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) DEPT. OF MINES
- 11) GEOLOGICAL TARGET FORMATION, Alexander
- 12) Estimated depth of completed well, 5750 feet
- 13) Approximate trata depths: Fresh, _____ feet; salt, 374 feet.
- 14) Approximate coal seam depths: Unknown 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.	New	Used	For drilling		
Conductor	16"				X	20'	20'	Cement to Surface
Fresh water								
Coal	8-5/8"		20#	X		750'	750'	Cement to Surface by rule 15.01
Intermediate								
Production	4-1/2"		J.55	X		5750'	5750'	Req. by Rule 15.01
Tubing			10.50#					
Liners								Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3278 Date December 27, 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 27, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>MW</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fee: <u>25139</u>
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Margaret J. Hasse
Administrator, Office of Oil and Gas

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