



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

FILE NO. DY / RK
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION ALAMCO WELL A-1402 API 6724 (25) ELEV. 852'

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE 30 MARCH 1984
 OPERATOR'S WELL NO. A-1247
 API WELL NO. _____

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

LOCATION: ELEVATION 1007' WATERSHED BRIDGE RUN
 DISTRICT MURPHY 3 COUNTY RITCHIE
 QUADRANGLE HARRISVILLE 37.5' HARRISVILLE 05715' C5

SURFACE OWNER CHARLES W. & I. FRANKLIN POWERS ACREAGE 102.21 Ac.
 OIL & GAS ROYALTY OWNER C. F. REXROAD LEASE ACREAGE 215 Ac.
 LEASE NO. 835

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 BROWN SHALE ESTIMATED DEPTH 5,700'
 WELL OPERATOR ALAMCO OIL 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

MAY 7 1984

FORM IV-6 (8-78)

COUNTY NAME PERMIT

6-6 Mahone (Smithville) (24) DEEP



1) Date: April 2, 1984
 2) Operator's A - 1247 (Maxwell)
 Well No. _____
 3) API Well No. 47 085 - 6943
 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 XXX /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow XXX /)
- 5) LOCATION: Elevation: 1007' Watershed: Bridge Run
 District: Murphy County: Ritchie Quadrangle: Harrisville 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 9) DRILLING CONTRACTOR:
 Name Samuel Hersman Name Development Drilling, Inc.
 Address P. O. Box 66 Address P. O. Box 1740
Smithville, WV 26178 Clarksburg, WV 26301
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate X
 Plug off old formation _____ / Perforate new formation XX /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Brown Shale
- 12) Estimated depth of completed well, 5700 feet
- 13) Approximate trata depths: Fresh, 220 feet; salt, 355 & 1455 feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes _____ / No XXX /
- 15) CASING AND TUBING PROGRAM

RECEIVED
 APR 9 - 1984
 OIL & GAS DIVISION
 DEPT. OF MINES
 No. XXX

CASING OR TUBING TYPE	Size	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	16"				XX	20'	20'	Cement to Surface	End
Fresh water									
Coal	8-5/8"		20#	XX		700'	700'	Cement to Surface	NEAT
Intermediate									
Production	4-1/2"		J.55 10.50#	XX		5700'	5700'	Req. by Rule	Depths set
Tubing								15.01	
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-085-6943 Date April 30, 19 84

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 April 30, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Agent: <u>✓</u>	Plat: <u>MTL</u>	Casing: <u>MTL</u>	Fee: <u>257.63</u>
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[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

JAN 9 - 1985



Date January 8, 1985
 Operator's _____
 Well No. A-1247
 Farm Maxwell
 API No. 47 - 085 - 6943

OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES

OIL and GAS DIVISION

WELL OPERATOR'S REPORT
 OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: OIL / GAS / LIQUID INJECTION / WASTE DISPOSAL
 (If "Gas", Production / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1007' Watershed Bridge Run
 District: Murphy County: Ritchie Quadrangle: Harrisville 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 Charles & Franklin Powers
 ADDRESS Rt. 1, Harrisville, Wv 26362

MINERAL RIGHTS OWNER Rexroad Heirs
 ADDRESS c/o W.K. Hoover, Harrisville, WV

OIL AND GAS INSPECTOR FOR THIS WORK Samuel
Hersman ADDRESS P.O. Box 66, Smithville, WV

PERMIT ISSUED April 30, 1984

DRILLING COMMENCED November 13, 1984

DRILLING COMPLETED November 20, 1984

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"			
9 5/8"			
8 5/8"	1137'	1137'	to surface
7"			
5 1/2"			
4 1/2"	5956'	5956'	w/255 sks 3000'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Brown Shale DEPTH 5700 FEET

Depth of completed well 5995 feet Rotary x / Cable Tools _____
 Water Strata depth: Fresh 110 & 1853 feet Salt _____ feet
 Coal seam depth: None listed Is coal being mined in this area? No

OPEN FLOW DATA

Producing formation Brown Shale, Elk, Balltown, Speechley Pay zone depth See Back feet

Gas: Initial open flow 12 Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 1055 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1250 psig (surface measurement after 480 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)

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

Well was fractured November 30, 1984
 Perforations: 3482 - 3492
 3500 - 3504 *Up Devordiff*
 3514 - ~~3518~~ *Speechley*
 4238 - 4242
 4268 - 4272
 4308 - 4312 *Huron*
 4340 - 4342 *Balltown*
 5389 - 5394 *Rhinestreet Elk*
 5552 - 5559
 5598 - 6000
 5610 - 5611
 5628 - 5630
 5640 - 5642 *Rhinestreet*
 5660 - 5664 *Brown Shale*
 5404 - 5408
 5890 - 5894
 5914 - 5919 *Brown Shale*
Rhinestreet

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Rock	0	55	Damp @ 110'
Sand & Shale	55	82	Damp @ 1853'
Red Rock	82	131	Gas check @ 2228' 39 MCF/D
Sand & Shale	131	139	Gas check @ 2416' 39 MCF/D
Shale & Red Rock	139	158	Gas check @ 2855' 25 MCF/D
Sand & Shale	158	255	Gas check @ 4226' 12 MCF/D
Red Rock	255	268	Gas check @ 5995' 12 MCF/D
Sand & Shale	268	290	
Shale & Red Rock	290	314	
Red Rock	314	346	<u>GAMMA RAY LOG TOPS</u>
Sand & Shale	346	399	
Red Rock	399	428	Pocono 2040'
Sand & Shale	428	628	Weir 2146'
Red Rock	628	750	Berea 2406'
Sand, Shale & Red Rock	750	1860	2nd Berea 2508'
Little Lime	1860	1894	Gordon 2788'
Big Lime	1894	1985	Speechley 3464'
Injun	1985	2215	Balltown 3784'
Sand & Shale	2215	5995 T.D.	Riley 4429'
		<i>Rhinestreet</i>	Benson 4726'
		@ T.D.	Alexander 4980'
			Elk 5388'
			Brown Shale 5503'

1007
3730
4737

(Attach separate sheets as necessary)

ALAMCO, INC.

Well Operator

By: *Bruce G. Pratter*



Date: January 8, 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."