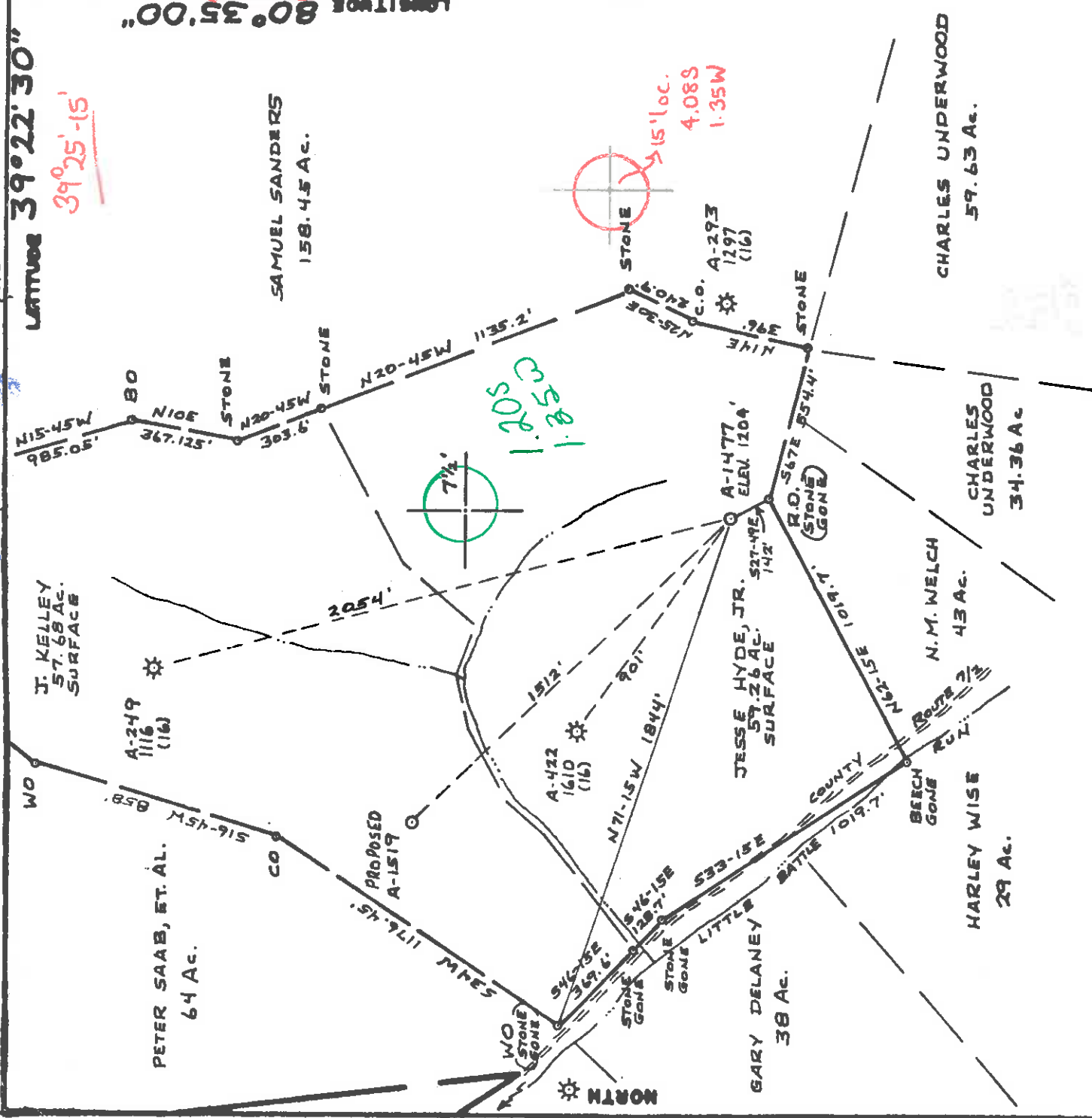


Plot Card CSD

7,110'

LATITUDE 39°22'30"

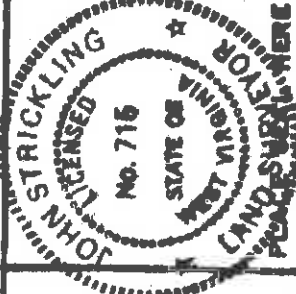
LONGITUDE 80°35'00"



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION ALAMCO WELL No. 247 ELEV. 1063'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (6-78)

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 Strickling*  
 N.P.E. L.L.S. 715



DATE 25 NOVEMBER 19 83  
 OPERATOR'S WELL NO A-1477  
 API WELL NO. 47-017 - 3281  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL TYPE: OIL - GAS X LIQUID INJECTION - WASTE DISPOSAL  
 (IF GAS, PRODUCTION X STORAGE - DEEP - SHALLOW X)  
 LOCATION: ELEVATION 1204' WATER SHED LITTLE BATTLE RUN DISTRICT McCLELLAN COUNTY DODDRIDGE

QUADRANGLE SALEM, WV 7 1/2' Contour 151' C  
 SURFACE OWNER JESSE HYDE, JR. ACRES 59.26  
 DIL & GAS ROYALTY OWNER VALLENTINE BALLOUZ, ET AL. LEASE ACRES 116.94  
 LEASE NO. 456

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 - AND REFRILL  
 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, WV 26302 CLARKSBURG, WV 26302

JAN 9 1984

b-6 Smithson-Flint, Sadalia (9a)

**RECEIVED**

AUG 29 1984



Date August 28, 1984  
 Operator's Well No. A-1477  
 Farm Ballouz  
 API No. 47 - 017 - 3281

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 X / LIQUID INJECTION / WASTE DISPOSAL /  
 (If "Gas", Production / Underground Storage / Deep / Shallow XX /)

LOCATION: Elevation: 1204' Watershed Little Battle Run  
 District: McClellan County: Doddridge Quadrangle: Salem 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 Jesse Hyde, Jr.  
 ADDRESS Allen St., Hepzibah, WV 26369  
A.C. Ballouz Estate  
 MINERAL RIGHTS OWNER c/o Mary Davis  
1010 S. State St.  
 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 4, 1984

DRILLING COMMENCED June 25, 1984

DRILLING COMPLETED July 13, 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 <u>Ord.</u>			
11-3/4"			
9 5/8"			
8 5/8"	1303'	1303'	to surface
7"			
5 1/2"			
4 1/2"	5610'	5610'	w/535 sks 3100'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander DEPTH 5700 FEET

Depth of completed well 5705 feet Rotary x / Cable Tools  
 Water Strata depth: Fresh 109 & 560 feet Salt \_\_\_\_\_ feet  
 Coal seam depth: 780-788 Is coal being mined in this area? No  
 OPEN FLOW DATA

Producing formation Alexander, Benson, Warren Pay zone depth See Back feet  
 Gas: Initial open flow 58 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 622 Mcf/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests 4 hours  
 Static rock pressure 1530 psig ( surface measurement after 2 weeks 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 July 23, 1984  
 Perforations: 3555 - 3558  
 3564 - 3567 Warren  
5172 - 5177 Benson  
5468 - 5472 Alexander

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Shale & Red Rock	0	90	1/4" stream water @ 109'
Sand & Shale	90	130	1/2" stream water @ 560'
Shale & Red Rock	130	152	Gas check @ 2201' 30 MCF/D
Sand & Shale	152	442	Gas check @ 2692' 30 MCF/D
Red Rock	442	455	Gas check @ 2913' 58 MCF/D
Sand	455	510	Gas check @ 3190' 67 MCF/D
Sand, Shale & Red Rock	510	780	Gas check @ 3530' 70 MCF/D
Coal	780	788	Gas check @ 4283' 84 MCF/D
Sand, Shale & Red Rock	788	1400	Gas check @ 4834' 103 MCF/D
Sand & Shale	1400	2045	Gas check @ 5267' 119 MCF/D
Little Lime	2045	2054	Gas check @ 5513' 146 MCF/D
Sand & Shale	2054	2080	Gas check @ 5705' 58 MCF/D
Big Lime	2080	2157	
Big Injun	2157	2190	
Sand & Shale	2190		

*Alex @ TD*

GAMMA RAY LOG TOPS

- Pocomo 2214'
- Weir 2396'
- Berea 2626'
- Gordon Stray 2746'
- Gordon 2834'
- 5th Sand 2920'
- Warren 3488'
- Speechley 3768'
- Balltown 4015'
- Riley 4997'
- Benson 5168'
- Leopold 5357'
- Alexander 5437'

(Attach separate sheets as necessary)

ATAMCO, INC.  
 Well Operator  
 By: Wayne Spumville/djps  
 Date: August 28, 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-1477 (Ballouz)  
 3) API Well No. 47 - 017 - 3281 State County Permit

FILE COPY  
**RECEIVED**  
 8 0 1983

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

OIL & GAS DIVISION  
 WELL TYPE OF MINES Gas XX

5) LOCATION: B (If "Gas", Production X)  
 Elevation: 1204' Undergrnd storage        Deep        Shallow XX  
 District: McClellan Watershed: Little Battle Run  
 County: Doddridge County: Doddridge Quadrangle: 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 Stephen Casey 9) DRILLING CONTRACTOR:  
 Address Route #2; Box 232-D Name Development Drilling Corpn.  
Jane Lew, West Virginia 26378 Address P. O. Box 1740  
Clarksburg, WV 26301

10) PROPOSED WELL WORK: Drill XX / Drilling        deeper        / Redrill        / Stimulate X  
 Plug off old formation        / Perforate new formation XX  
 Other physical change in well (specify)       

11) GEOLOGICAL TARGET FORMATION, Alexander  
 12) Estimated depth of completed well, 5700 feet  
 13) Approximate traata depths: Fresh, 344 feet; salt,        feet.  
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes        / No XX

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	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		J.55				
Production	4-1/2"	10.50#XX	5700'	5700'	Req. by Rule 265-6.01	
Tubing						
Liners						

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3281 Date January 4, 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 January 4, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BB</u>	Agent: <u>MLL</u>	Plat: <u>MH</u>	Casing: <u>MLL</u>	Fee: <u>25174</u>
-----------------	-------------------	-----------------	--------------------	-------------------

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

Administrator, Office of Oil and Gas

File

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

