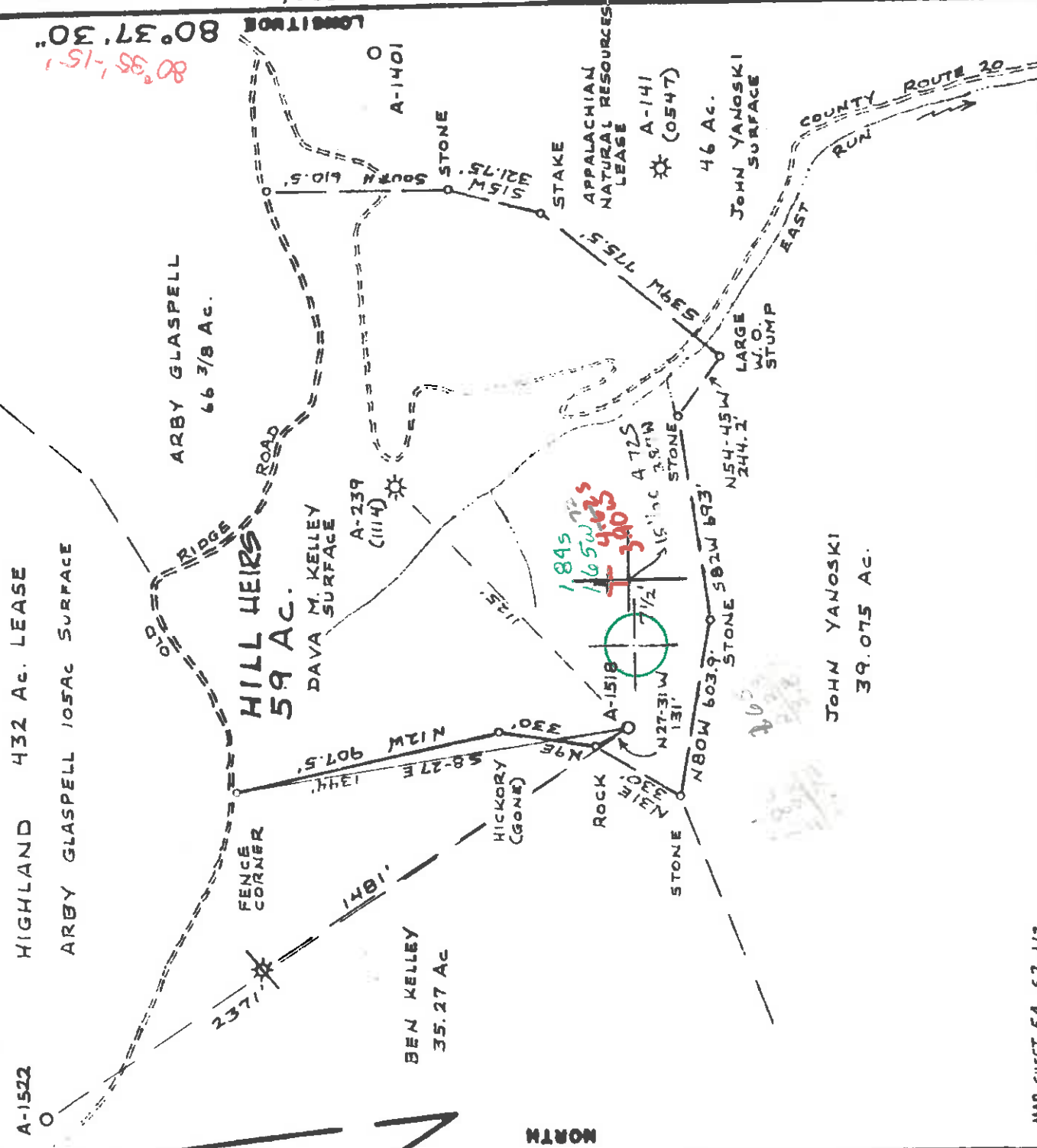


39° 25' - 15'

NORTH

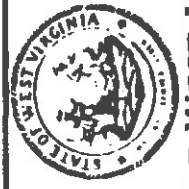


MAP SHEET 54 57- W3

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:100
 PROVEN SOURCE OF ELEVATION ALAMCO WELLS
 (1114) ELEV. 1215

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)

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 Stirling
 M.P.E. _____ L.L.S. 715



DATE 31 OCTOBER, 1983
 OPERATOR'S WELL NO A-1518
 API WELL NO. 47-017 - 3269
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES

DEC 12 1983

OIL AND GAS DIVISION
 WELL TYPE: OIL LIQUID INJECTION WASTE DISPOSAL
 (IF GAS, PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1307, WATER SHED EAST RUN
 DISTRICT GRANT COUNTY DODDRIDGE
 SURFACE OWNER DAVA M. KELLEY ET. AL. ACRES 59
 OIL & GAS ROYALTY OWNER HILL HERS LEASE ACRES 59
 LEASE NO. 4-221
 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, WV 26302 CLARKSBURG, WV 26302

6-6 Smithson - Flint - Sedalia (99)

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AUG 17 1984



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

Date August 15, 1984
Operator's
Well No. A-1518
Farm Hill
API No. 47 - 017 - 3269

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: 1307' 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 Dara M. Kelly, et al
ADDRESS Rt. 2, Box 210, West Union, WV 26456

MINERAL RIGHTS OWNER Hill Heirs
c/o Sharon Jackson Agt.
ADDRESS Rt. 1, Bx 165, Pennsboro, WV 26415

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

PERMIT ISSUED December 8, 1983

DRILLING COMMENCED July 15, 1984

DRILLING COMPLETED July 23, 1984

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

GEOLOGICAL TARGET FORMATION Alexander

Depth of completed well 5750 feet Rotary x / Cable Tools _____ feet
Water Strata depth: Fresh 1032, 1700, 1800 feet Salt _____ feet
Coal seam depth: 370-375, 629-632 Is coal being mined in this area? No

OPEN FLOW DATA

Producing formation Benson-Riley, Warren Pay zone depth See Back feet
Gas: Initial open flow 30 Mcf/d Oil: Initial open flow _____ Bbl/
Final open flow 156 Mcf/d Final open flow _____ Bbl/

Time of open flow between initial and final tests 4 hours

Static rock pressure 1200 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/
Final open flow _____ Mcf/d Final open flow _____ Bbl/

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut-in

(continue on reverse side)

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
20-16 Cond.			
11-3/4"			
9 5/8"			
8 5/8"	1219'	1219'	to surface
7"			
5 1/2"			
4 1/2"	5421'	5421'	w/450 sks 3300'
3			
2			
Liners used			

DEPTH 5700 FEET

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

Well was fractured
Perforations:

August 1. 1984
3707 - 3711
3715 - 3717 Warren

5085 - 5087
5094 - 5096
5317 - 5320 Benson-Riley

Riley

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Top Soil & Clay	0	10	Damp @ 1032'
Sand & Shale	10	235	Damp @ 1700'
Red Rock	235	255	3/4" stream water @ 1800'
Sand & Shale	255	275	Gas check @ 2291' No show
Red Rock, Sand & Shale	275	370	Gas check @ 2599' No show
Coal	370	375	Gas check @ 2906' No show
Red Rock, Sand & Shale	375	629	Gas check @ 3310' No show
Coal	629	632	Gas check @ 3715' No show
Sand, Shale & Red Rock	632	700	Gas check @ 4640' 30 MCF/D
Sand & Shale	700	790	
Red Rock & Shale	790	1060	
Sand & Shale	1060	1150	
Red Rock & Shale	1150	1340	
Sand & Shale	1340	1700	
Black Shale	1700	1705	
Sand & Shale	1705	1960	
Sand, Shale & Red Rock	1960	2158	
Little Lime	2158	2190	
Sand & Shale	2190	2200	
Big Lime & Injun	2200	2300	
Sand & Shale	2300	5750 T.D.	

GAMMA RAY LOG TOPS

Pocono 2344'
Weir 2552'
Berea 2771'
Gordon 2886'
5th Sand 3265'
Warren 3628'
Speechley 3922'
Balltown 4181'
Bradford 4539'
Riley 5084'
Benson 5316'
Alexander 5572'

(Attach separate sheets as necessary)

ALAMO, INC.

Well Operator

By: *Shayne Smearville / aldp*

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: November 3, 19 83
 2) Operator's Well No. A - 1518 (HILL)
 3) API Well No. 47 - 017 - 3269 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 Undergrad storage Deep Shallow
 Elevation: 1307' Watershed: East Run
 District: Grant County: Doddridge Quadrange: Smithburg 7.5'
- 5) LOCATION: Alamco
 Address P. O. Drawer 1740
Clarksburg, WV 26301
- 6) WELL OPERATOR: Stephen Casey
 Address Route 2, Box 232-D
Jane Lew, WV 26378
- 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 deeper Redrill
 Plug off old formation Perforate new formation
 Other physical change in well (specify) Alexander
- 11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5700 feet
 13) Approximate traas depths: Fresh, 307 feet; salt, 307 feet.
 14) Approximate coal seam depths: 387-407; 450-453 Is coal being mined in the area? Yes No
- 15) CASING AND TUBING PROGRAM

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OIL & GAS DIVISION
 DEPT. OF MINES

CASING OR TUBING TYPE	Size	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	For drilling	Left in well		
Conductor	16"				20'	20'	Cement to surface
Fresh water							
Cool	8-5/8"		20#	X	900'	900'	Cement to surface by rule
Intermediate							
Production	4-1/2"		10.55	X	5700'	5700'	Required by Regs. 5.01
Tubing							
Liners							

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3269 Date December 8, 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 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 8, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Blanket Bond	Agent: <u>lp</u>	Plat: <u>MH</u>	Casing	Fee
			<u>MH</u>	<u>25041</u>

Margaret J. Lauer
 Administrator, Office of Oil and Gas

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

File

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

