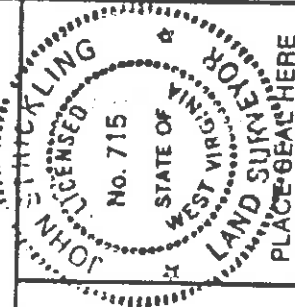


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF _____
 ACCURACY 1:200
 PROVEN SOURCE OF _____
 ELEVATION ALAMCO WELL
 A-203 (921) ELEV. 1330'

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

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 R.P.E. L.L.S. 715



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION STORAGE _____ DEEP _____ SHALLOW PERMIT
 LOCATION: ELEVATION 1133' WATERSHED BIG BATTLE RUN COUNTY DODD BRIDGE
 DISTRICT McCLELLAN QUADRANGLE SMITHBURG, WV 7 1/2 611 022 55 Centerpoint
 SURFACE OWNER WILLIAM TAYLOR ACREAGE 61.84
 OIL & GAS ROYALTY OWNER I.F. HILL HEIRS LEASE ACREAGE 109

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

DATE September 15, 1986
 OPERATOR'S WELL NO. A-1545
 API WELL NO. 47-017-3513
 COUNTY CLARKS COUNTY
 STATE WEST VIRGINIA
 COUNTY PERMIT 3301

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG 6-6 Smithton-Flint-Sedalia (99)
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5675'
 WELL OPERATOR ALAMCO OIG DESIGNATED AGENT Maity L. Perri
 ADDRESS P.O. BOX 1740 CLARKSBURG, WV 26302
 ADDRESS P.O. BOX 1740 CLARKSBURG, WV 26302

COUNTY NAME _____
 PERMIT OCT 14 1986

LATITUDE 39° 22' 30"
 LONGITUDE 80° 37' 30"

98.9/12/86

IV-35
(Rev 8-81)



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

RECEIVED
DEC 17 1986

Date 12-16-86
Operator's Well No. A- 1545
Farm Hill
API No. 47 - 017 - 3513

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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: 1133 Watershed Big Battle Run
District: McClellan 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 William R. Taylor
c/o Wilma Jean Taylor, Rt. 2, Box 120
ADDRESS Salem, WV 26426

MINERAL RIGHTS OWNER I. F. Hill Heirs
c/o Doris Louise Fluaharty, Agent
ADDRESS Rt. 2, Box 179 West Union, WV 26456

OIL AND GAS INSPECTOR FOR THIS WORK Region 7
322 - 70th St.
ADDRESS Charleston, WV 25304

PERMIT ISSUED October 7, 1986

DRILLING COMMENCED October 13, 1986

DRILLING COMPLETED October 19, 1986

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 5685 feet Rotary _____ / Cable Tools _____
Water Strata depth: Fresh 50,791, 1700 feet Salt _____ feet
Coal seam depth: 494' - 499' Is coal being mined in this area? _____
OPEN FLOW DATA

Producing formation Riley, Benson Pay zone depth _____ See Back _____ feet
Gas: Initial open flow 15 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 539 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 4 hours
Static rock pressure 1200psig (surface measurement after 72 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)

DCK/1216864-2

DEC 23 1986

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"	1225'	1225'	to surface
7"			
5 1/2"			
4 1/2"	5286'	5286'	586'
3			
2			
Liners used			

DEPTH 5675' FEET

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

Well was fractured 10-31-86
Perforations: Riley - 5056'-5058'
Benson - 5144'-5148'

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Top soil	0	10	Damp @ 50'
Shale	10	20	Hole wet @ 791'
Shale	20	35	Hole wet @ 1700'
Shale	35	45	
Sand	45	95	
Shale	95	115	Gas checked @ 1500' - no show
Sand	115	139	Gas checked @ 2190' - no show
Shale	139	150	Gas checked @ 2843' - 15 Mcf
Sand & Shale	150	164	Gas checked @ 3468' - 15 Mcf
Shale	164	178	Gas checked @ 3934' - 60 Mcf
Sand & Shale	178	193	Gas checked @ 4435' - no show
Sand & Shale	193	235	Gas checked @ 4933' - 15 Mcf
Sand	235	255	Gas checked @ 5685' - 15 Mcf
Shale	255	378	
Sand & Shale	378	388	
Shale	388	494	
Sand & Shale	494	499	
Coal	499	520	
Sand	520	945	
Sand & Shale	945	977	
Sand	977	1115	
Sand & Shale	1115	1215	
Sand	1215	1276	
Sand & Shale	1276	1660	
Sand	1660	1700	
Sand & Shale	1700	1745	
Sand & Shale	1745	1780	
Sand	1780	2009	
Sand & Shale	2009	2023	
Lime	2023	2042	
Sand & Shale	2042	2046	
Lime	2046	2049	
Sand & Shale	2049	2154	

(Attach separate sheets as necessary)

AMOCO, INC.

Well Operator

By:

Richard R. Hoffman, Vice President of Production

Date:

5415-5685

Note: Regulation 2.02 (1) 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."



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

RECEIVED
SEP 18 1986

4) WELL TYPE: A Oil Gas
DIVISION OF OIL & GAS PRODUCTION
DEPARTMENT OF ENERGY
Elevation: 1133' Undergroud storage Deep Shallow
Watershed: Big Battle Run
County: Doddridge Quadrangle: Smithburg 7.5' 678
District: McClellan 15 M. L. Perri
5) WELL OPERATOR: Alamo, Inc. CODE: 975 7) DESIGNATED AGENT P. O. Box 1740
Address: P. O. Box 1740
Clarksburg, WV 26301

8) OIL & GAS INSPECTOR TO BE NOTIFIED
Region 7
Name: _____
Address: 322 - 70th Street
Charleston, WV 25304

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

11) GEOLOGICAL TARGET FORMATION, _____
12) Estimated depth of completed well, _____ feet
13) Approximate trata depths: Fresh, _____ feet salt, _____ feet
14) Approximate coal seam depths: _____ feet 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.	For drilling	Left in well		
Conductor	16			20'	20'	Cement to surface	
Fresh water	8-5/8"			1100'	1100'	CRS Req. by Rule 15.05	
Coal	4-1/2"		10.50#	5500'	5500'	Req. by Rule 15.01	
Intermediate Production				5675'	5675'	OR 500 SKS	Depths set
Tubing							Perforations:
Line							Top
							Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3513 Date October 7 19 86

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 October 7, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <i>ASB</i>	Plat: <i>AS</i>	Casing: <i>AS</i>	Fee: <i>2654</i>	WPCP: <i>AS</i>	Other: <i>AS</i>
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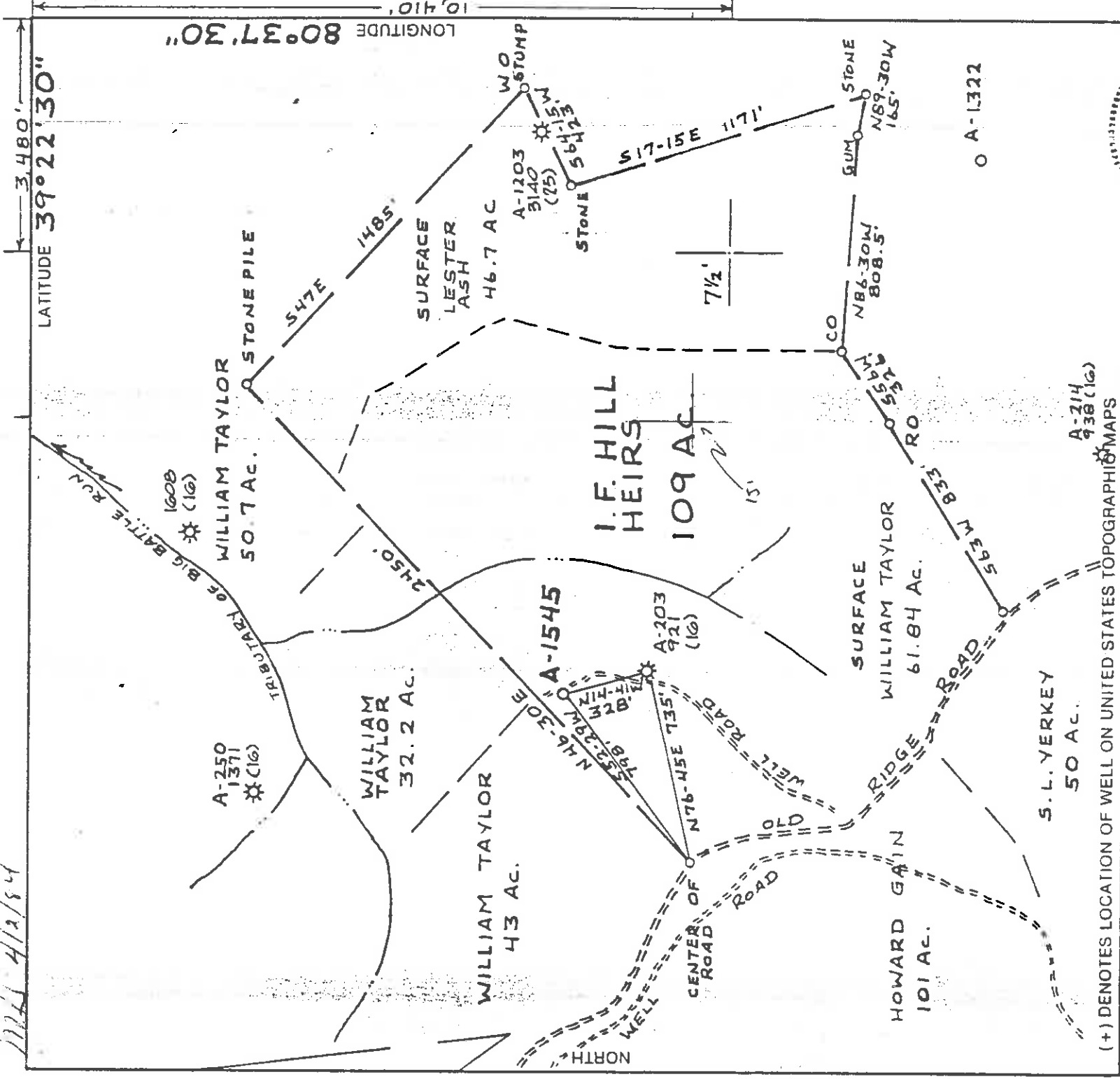
NOTE: Keep one copy of this permit posted at the drilling location.

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

John H. Johnston
Director, Division of Oil and Gas
John H. Johnston
for instructions to the well operator.

126

2024 4/12/84

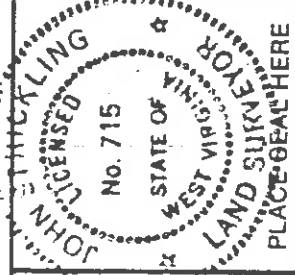


LATITUDE 39° 22' 30"

LONGITUDE 80° 37' 30"

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ALAMCO WELL A-203 (911) ELEV. 1230'

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 R.F.E. L.L.S. 7715



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

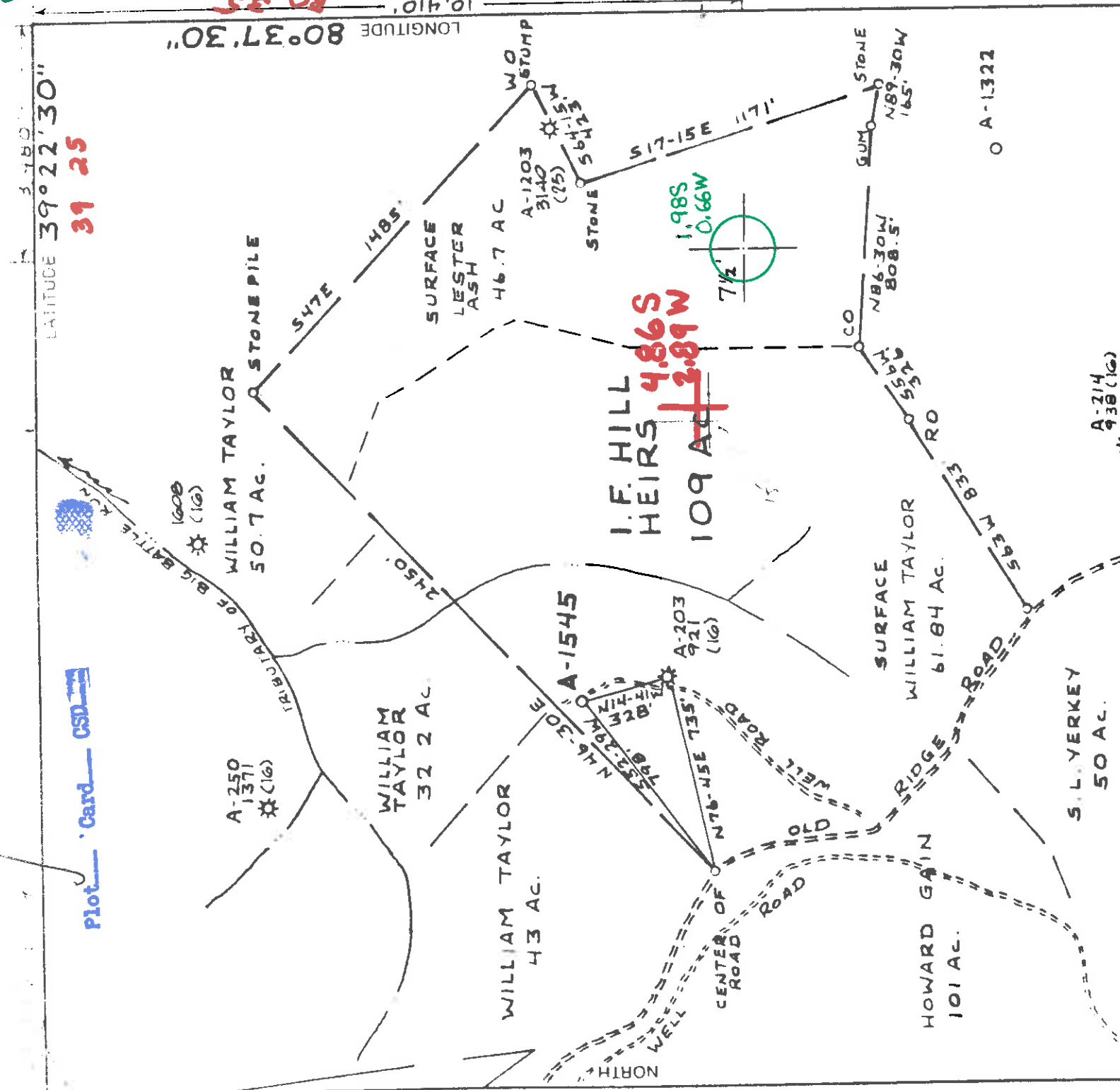


DATE 7 FEBRUARY 19 84
 OPERATOR'S WELL NO. A-1545
 API WELL NO. NOW: 017-3513

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL STATE COUNTY PERMIT
 (IF "GAS.") PRODUCTION X STORAGE DEEP SHALLOW X
 LOCATION: ELEVATION 1233' WATER SHED BIG BATTLE RUN CANCELLED
 DISTRICT McCLELLAN COUNTY DODDGE
 QUADRANGLE SMITHBURG, WV 7 1/2'
 SURFACE OWNER WILLIAM TAYLOR ACREAGE 61.84
 OIL & GAS ROYALTY OWNER J.E. HILL HEIRS LEASE ACREAGE 109
 LEASE NO. NOW 017 3513
 PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
 FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5500'
 WELL OPERATOR ALAMCO OIO DESIGNATED AGENT DANIEL L. WHEELER
 ADDRESS P.O. BOX 1740 ADDRESS P.O. BOX 1740
 CLARKSBURG, WV 26302 CLARKSBURG, WV 26302

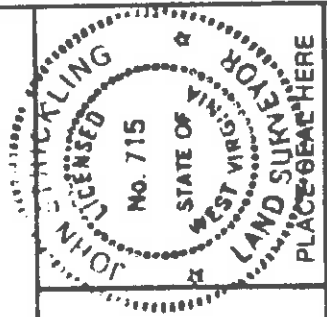
DODD. 3301
 COUNTY NAME PERMIT



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF _____
 ACCURACY 1:200
 PROVEN SOURCE OF _____
 ELEVATION ALAMCO WELL
 A-203 (921) ELEV. 1330'

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

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* R.E. I.L.S. 715



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 7 FEBRUARY, 19 84
 OPERATOR'S WELL NO. A-1545
 API WELL NO. 47 017 3301

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL STATE COUNTY PERMIT
 (IF "GAS.") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1233' WATERSHED BIG BATTLE RUN
 DISTRICT McCLELLAN COUNTY BOONVILLE
 QUADRANGLE SMITHBURG, W.V. 7 1/2' Combr point
 SURFACE OWNER WILLIAM TAYLOR ACRES 61.84
 OIL & GAS ROYALTY OWNER J.F. HILL HEIRS LEASE ACRES 109

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
 FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 LEASE NO. _____

PLUG AND ABANDON CLEAN OUT AND REPLUG _____
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5500'
 WELL OPERATOR ALAMCO DESIGNATED AGENT DANIEL L. WHEELER
 ADDRESS P.O. BOX 1740 ADDRESS P.O. BOX 1740
CLARKSBURG, W.V. 26302 CLARKSBURG, W.V. 26302

COUNTY NAME _____ PERMIT APR 9 1984



1) Date: March 9, 1984
 2) Operator's Well No. A-1545 (Hill)
 3) API Well No. 47 - 017 - 3301 County Permit

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

4) WELL TYPE: A Oil XXX Gas XXX Underground storage Deep / Shallow XXX
 B (If "Gas", Production X)
 5) LOCATION: Elevation: 1233 Watershed: Big Battle Run
 District: McClellan County: Doddridge Quadrangle: Smithburg 7.5'
 6) WELL OPERATOR Alanco, Inc. 7) DESIGNATED AGENT D. L. Wheeler
 Address P. O. Drawer 1740 Address P. O. Drawer 1740
Clarksburg, WV 26301 Clarksburg, WV 26301

8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Harold Mike Underwood Name Development Drilling Corporation
 Address Route #2, Box 114 Address P. O. Drawer 1740
Sallem, WV 26426 Clarksburg, WV 26301

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

11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5500 feet
 13) Approximate true depths: Fresh, 58 feet; salt, 783 feet.
 14) Approximate coal seam depths: 4.91-505 - 760-766 Is coal being mined in the area? Yes DEPT. OF MINES

15) CASING AND TUBING PROGRAM

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							
Coal	8-5/8"		20#	1100'	1100'	Cement to surface by rule 5.05	
Intermediate							
Production	4-1/2"		J.55 10.50	5500'	5500'	Req. by Rule 15.01	Depths set
Tubing							Perforations:
Liners							Top
							Bottom

Permit number 47-017-3301 April 3, 1984
 Date

OFFICE USE ONLY
 DRILLING PERMIT

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 3, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>LM</u>	Plat: <u>MA</u>	Casing Fee: <u>MA 25610</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

