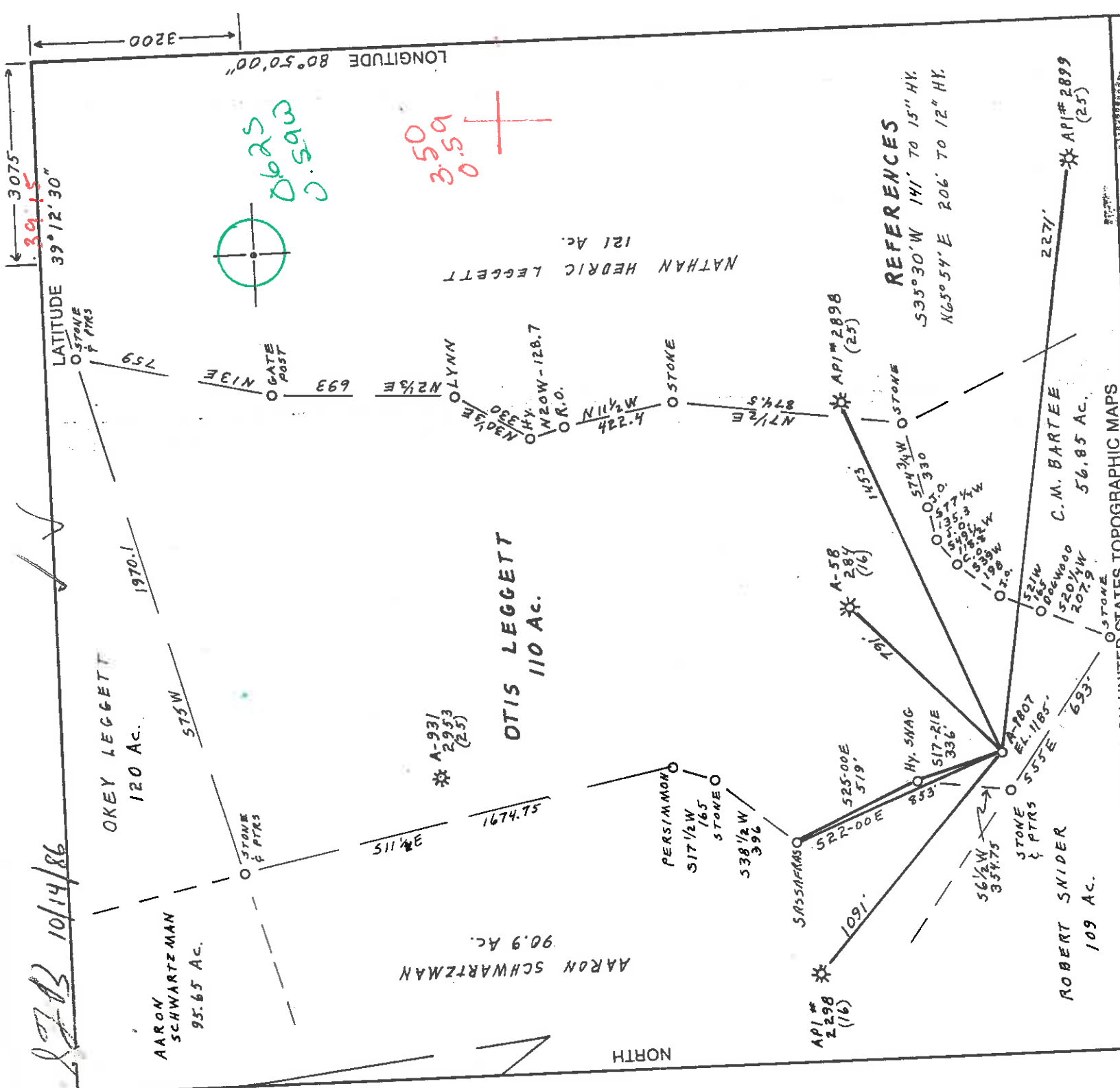


2213 10/14/86

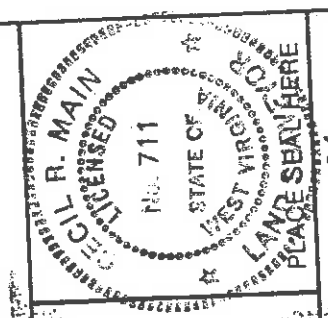


REFERENCES
 S35°30'W 141' TO 15" HY.
 N65°54'E 206' TO 12" HY.

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

FILE NO. 67 517 W13
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION ALAMCO WELL A-931 EL. 902'

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) Caril R. Main
 R.P.E. _____ I.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE MAY 13 1986
 OPERATOR'S WELL NO. A-1807
 API WELL NO. 47 017 STATE 017 COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL SHALLOW DEEP
 (IF "GAS") PRODUCTION STORAGE WATER SHED TAYLOR DRAIN
 LOCATION: ELEVATION 1185 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5' 5a6 ACRES 110
 SURFACE OWNER OTIS LEGGETT LEASE ACRES 110
 OIL & GAS ROYALTY OWNER OTIS LEGGETT, et al. LEASE NO. 6

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 ESTIMATED DEPTH 5500
 TARGET FORMATION ALEXANDER DESIGNATED AGENT MARTY PERRI
 WELL OPERATOR ALAMCO ADDRESS P.O. BOX 1740, CLARKSBURG, W.V. 26301
 PERMIT OCT 27 1986

COUNTY NAME _____ PERMIT _____

66 Straight Fork - Bluestone Creek (133)



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

RECEIVED
JAN 26 1987

Date Jan. 22, 1987
Operator's Well No. A-1807
Farm Leggett
API No. 47-017-3515

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: 1185' Watershed Taylor Drain
District: Southwest County: Doddridge Quadrangle: Oxford 7.5'

COMPANY ALAMCO, INC
ADDRESS 200 West Main Street
Clarksburg, West Virginia 26301

DESIGNATED AGENT ALAMCO, INC
ADDRESS 200 West Main Street
Clarksburg, West Virginia 26301

SURFACE OWNER Otis Leggett
ADDRESS 1002 Stadium Dr.
St. Marys, WV 26170

MINERAL RIGHTS OWNER Otis Leggett
ADDRESS 1002 Stadium Dr.
St. Marys, WV 26170

OIL AND GAS INSPECTOR FOR THIS WORK Region 7
322 70th St.

ADDRESS Charleston, WV 25304

PERMIT ISSUED October 23, 1986

DRILLING COMMENCED December 22, 1986

DRILLING COMPLETED December 31, 1986

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 Cond.			
11-3/4"	37.60'	Pulled	
9 5/8"			
8 5/8"	1137'	1137'	to surface
7"			
5 1/2"			
4 1/2"	5334'	5334'	3000'
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander DEPTH 5500 FEET

Depth of completed well 5457 feet Rotary X / Cable Tools
Water Strata depth: Fresh Damp at 120' feet Salt _____ feet
Coal seam depth: 1270' - 1276' Is coal being mined in this area? _____

OPEN FLOW DATA

Producing formation Alexander, Benson Pay zone depth See Back feet
Gas: Initial open flow 84 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 1400 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours
Static rock pressure 1850 psig (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)

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

Well was fractured
Perforations:

Jan. 9, 1987
 4853' - 4856' }
 4913' - 4919' } *Bureau*
 5181' - 5208' } *aley*

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Top Soil	0	10	
Sandstone	10	30	
Sand & Shale	30	58	Damp @ 120'
Sand	58	98	Damp @ 1490'
Red Rock	98	101	
Sand & Shale	101	128	Gas checked @ 2090' - 60 Mcf
Red Rock	128	137	Gas checked @ 2397' - 60 Mcf
Sand & Shale	137	142	Gas checked @ 3403' - 84 Mcf
Sand	142	146	Gas checked @ 4089' - 84 Mcf
Sand & Shale	146	160	Gas checked @ 4871' - 84 Mcf
Shale	160	170	Gas checked @ 5457' - 84 Mcf
Sand & Shale	170	266	
Sand & Shale	283	286	
Red Rock	286	340	
Sand & Shale	340	374	<u>Gamma Ray Log Tops:</u>
Shale	374	406	Big Lime - 1981'
Sand & Shale	406	434	Benson - 4924'
Red Rock & Shale	434	555	Alexander - 5186'
Sand	555	560	
Sand & Shale	560	664	
Sand	664	675	
Red Rock & Shale	675	774	
Sand	774	788	
Sand, Shale & Red Rock	788	886	
Sand	886	920	
Red Rock	920	1033	
Sand & Shale	1033	1335	
Sand	1335	1341	
Sand & Shale	1341	1270	
Coal	1270	1276	
Sand & Shale	1276	1490	

(Continued On Attached Sheet)
(Attach separate sheets as necessary)

AIAMCO, INC.

Well Operator

By: *[Signature]*

Richard R. Hoffman, Vice President - Production

Date: January 22, 1987

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."

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49.4 011 0010

REMARKS
Including indication of all fresh
and salt water, coal, oil and gas

BOTTOM FEET

TOP FEET

FORMATION COAL HARD OR SOFT

FORMATION COAL HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Sand	1490	1512	
Sand & Shale	1512	1747	
Sand	1747	1778	
Sand & Shale	1778	1925	
Little Lime	1925	1945	
Sand & Shale	1945	1974	
Big Lime	1974	2033	
Shale	2033	2039	
Injun	2039	2062	
Sand & Shale	2062	2396	
Shale	2396	2498	
Sand & Shale	2498	2900	
Sand & Shale	2900	2926	
Gordon	2926	3350	
Sand & Shale	3350	3376	
Speechley	3376	4025	
Sand & Shale	4025	4045	
Balltown	4045	4474	
Sand & Shale	4474	4506	
Riley	4506	4903	
Sand & Shale	4903	4935	
Benson	4935	5150	
Sand & Shale	5150	5187	
Alexander	5187	5457	
Sand & Shale	5457		TD.

RECEIVED
JAN 26 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

FEB 3 1987

BDF/0121874-11

1) Date: October 1, 1986
2) Operator's Well No.: A-1807 (Leggett)
3) API Well No. 47 017-3515
State County Permit



OCT 8 1986

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

- 4) WELL TYPE: A Oil Gas B (If "Gas", Production Underground storage Deep Shallow
Elevation: 1185 Watershed: Taylor Drain
District: Southwest County: Doddridge Quadrangle: Oxford 7.5' 325
- 6) WELL OPERATOR Alamco, Inc CODE: 975 7) DESIGNATED AGENT Marty L. Perri
Address P. O. Box 1740 Address P. O. Box 1740
Clarksburg, WV 26301 Address Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Region 7 9) DRILLING CONTRACTOR:
Address 322 70th Street Name Development Drilling
Charleston, WV 25304 Address P. O. Box 0

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, Alexander

- 12) Estimated depth of completed well, 5500 feet.
13) Approximate true depths: Fresh, 100 feet; salt, _____ feet.
14) Approximate coal seam depths: NONE 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.	Left in well		
Conductor	16"			20'	Cement to surface	
Fresh water						
Coal						
Intermediate	8-5/8"		20#	1000'	As required by Rule 15.05	
Production	4-1/2"		10-33#	5500'	As required by Rule 15.01	
Tubing						
Lin.						

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3515 Date October 23, 1986

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 23, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <u>AS</u>	Mat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>2683</u>	WPCP: <u>AS</u>	S&E: <u>MW</u>	Other:
				<u>148</u>			

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.
J. H. ...
Director, Division of Oil and Gas

