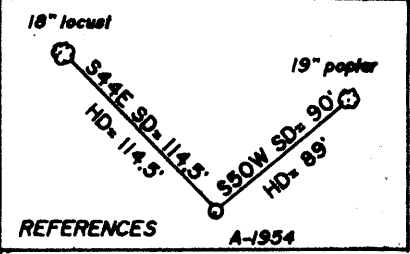
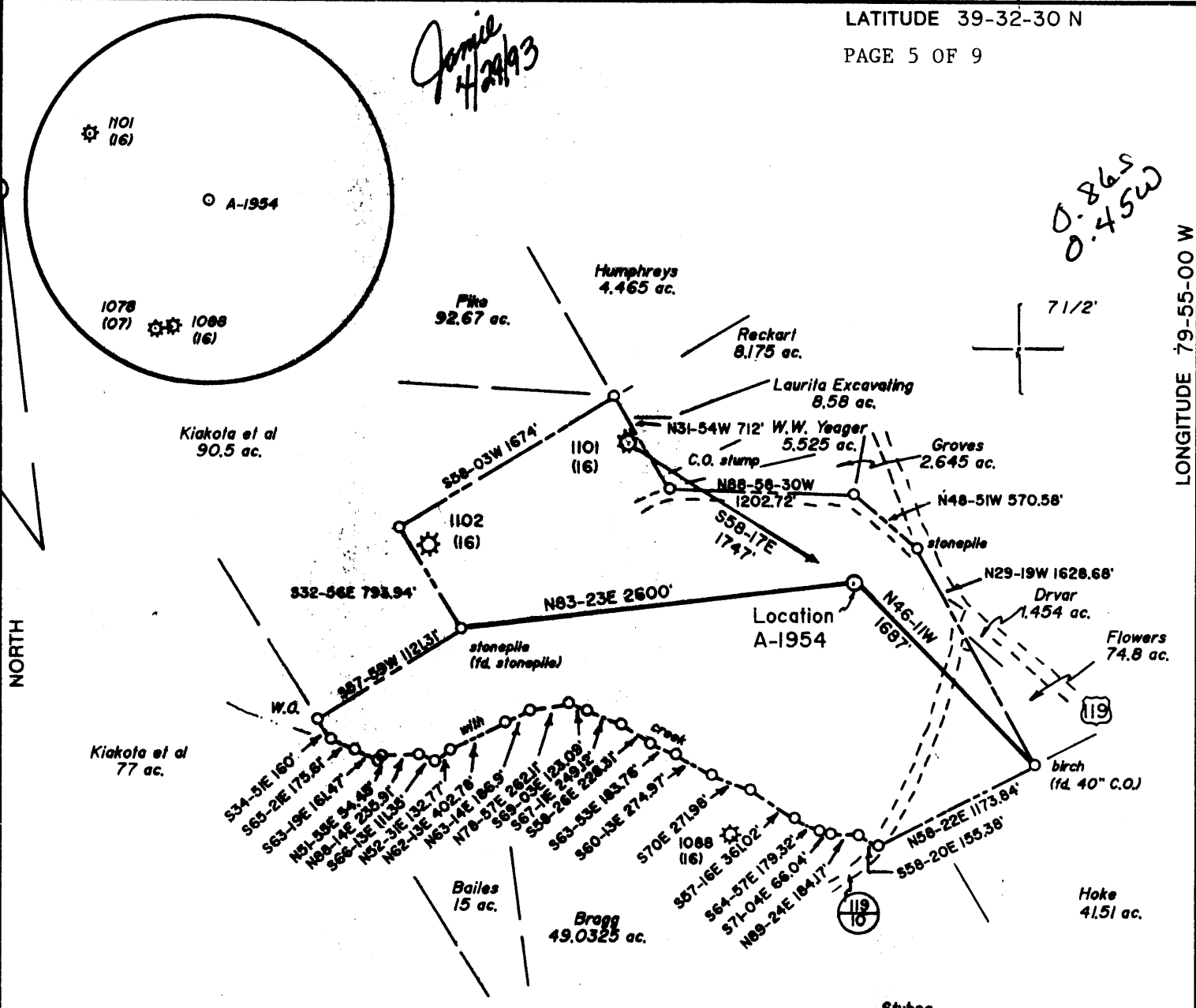


*Janice
Hess
4/28/93*

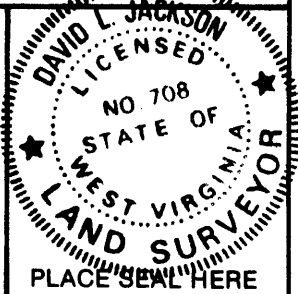
*0.865
0.45W*



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

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Road junction 650'
SE of Location: elev. 1873'

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 ENERGY.
 (SIGNED) David L. Jackson
 R.P.E. _____ L.L.S. 708



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE April 26, 19 93
 OPERATOR'S WELL NO. A-1954
 API WELL NO. _____

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

LOCATION: ELEVATION 1780 WATER SHED Owl Creek
 DISTRICT Clinton COUNTY Monongalia
 QUADRANGLE Morgantown South 7 1/2' SW

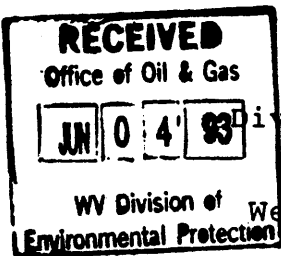
SURFACE OWNER Mary Jane Hess, et al ACREAGE 172.802
 OIL & GAS ROYALTY OWNER Mary Jane Hess, et al LEASE ACREAGE 173
 LEASE NO. 3113

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 4th Sand ESTIMATED DEPTH 1950
 WELL OPERATOR Alamco, Inc. DESIGNATED AGENT Marty Perri
 ADDRESS P.O. Box 1740, Clarksburg, WV 26302-1740 ADDRESS P.O. Box 1740, Clarksburg, WV 26302-1740

FORM WW-6

COUNTY NAME PERMIT



State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: HESS, MARY JANE

Operator Well No.: HESS A-1954

LOCATION: Elevation: 1,780.00 Quadrangle: MORGANTOWN SOUTH

District: CLINTON County: MONONGALIA
Latitude: 4540 Feet South of 39 Deg. 32Min. 30 Sec.
Longitude 2360 Feet West of 79 Deg. 55 Min. Sec.

Company: ALAMCO, INC.
200 W. MAIN ST., P.O. BOX 1740
CLARKSBURG, WV 26302-1740

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4	35'	-	-
8-5/8	707'	707'	224 cu. ft.
4-1/2		1965.2'	258 cu. ft.

Agent: MARTY L. PERRI

Inspector: RANDAL MICK
Permit Issued: 04/29/93
Well work Commenced: 05/04/93
Well work Completed: 05/17/93
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 2,008 Drl. TD
Fresh water depths (ft) 57'

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 255'

OPEN FLOW DATA

Producing formation 4th Sand Pay zone depth (ft) 1826-1859
Gas: Initial open flow 363 MCF/d Oil: Initial open flow - Bbl/d
Final open flow 746 MCF/d Final open flow - Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 410 psig (surface pressure) after 24 Hours

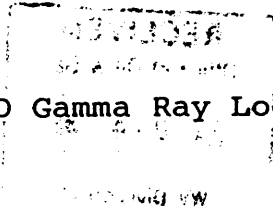
Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Reviewed TMB
Recorded _____

For: ALAMCO, INC. JUN 4 1993
By: [Signature] Richard R. Hoffman
Date: _____

Formations: 0-713 Drillers Log Book - 713 to TD Gamma Ray Log



<u>Top</u>	<u>Bottom</u>	<u>Type</u>
0	135	SD & SH
135	195	Sand
195	255	SD & SH
255	258	Coal
258	316	Sand
316	328	SH
328	447	Sand
447	615	SH & RR
615	640	Sand
640	713	SD & SH
713	832	Big Lime
832	945	Big Injun
945	1032	SD & SH
1032	1136	Weir
1136	1260	SH
1260	1269	Gantz
1269	1818	SD & SH
1818	1868	4th Sand
1868	1950	Sand & SH
	2000	Log TD

Water, Coal, Gas

Wet @ 57'

Coal: 255 - 258'

Oil: None

Gas Checks:

824'	N/S
1197'	N/S
1290'	N/S
1572'	N/S
1790'	N/S
1852'	353 MCF/D

Perforations:

4th Sand - 1826 - 1859'
(12 Holes)

Fracture:

Water frac 20# Gel Sys. 40,000
#20/40 Sand

25/11

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

Expires 04/29/95

- 1) Well Operator: ALAMCO, INC⁰¹⁰ (975) (4) 484
- 2) Operator's Well Number A-1954 ELEVATION: 1,780'
- 4) Well type: (a) OIL ___/ or GAS X /
(b) If Gas: Production ___/ Underground Storage ___/
Deep ___/ Shallow XX /
- 5) Proposed Target Formation(s): FOURTH SAND 421
- 6) Proposed Total Depth: 1,980 feet
- 7) Approximate fresh water strata depths: 120' 153'
- 8) Approximate salt water depths: NONE
- 9) Approximate coal seam depths: 73'-78' 292'-296'
- 10) Does land contain coal seams tributary to active mine? Yes ___/ No XX /
- 11) Proposed Well Work: SEE ATTACHED
- 12) See 061-1088 CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	SIZE	GRADE	WEIGHT PER FT.	FOR DRILLING	LEFT IN WELL	FILL-UP (Cu. Ft.)
Conductor	11-3/4"	LS	32#	40'	40'	NONE
Fresh Water						
Coal						
Intermediate	8-5/8"	J-55	23#	702'	702'	As req. by 38 CSR 18-11-2
Production	4-1/2"	J-55	10.50#	1,980'	1,980'	As req. by 38 CSR 38-11
Tubing						
Liners						

PACKERS: Kind NONE
Sizes --
Depths Set --

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Agent

1) Date: April 27, 1993
2) Operator's well number
A-1954 (HESS)
3) API Well No: 47 - 061 - 1108
State - County - Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Mary Jane Hess
Address Route 9, Box 88
Morgantown, WV 26505
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Randall Mick
Address 111 Blackshere Drive
Mannington, WV 26582
Telephone (304)-987-3324

5) (a) Coal Operator:
Name None of Declaration
Address _____
(b) Coal Owner(s) with Declaration
Name Mary Jane Hess
Address Route 9, Box 88
Morgantown, WV 26505
Name _____
Address _____
(c) Coal Lessee with Declaration
Name NONE OF DECLARATION
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
XX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 8 on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- XX Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator ALAMCO, INC.
By: [Signature]
Its: Manager, Land
Address P. O. Box 1740
Clarksburg, WV 26302-1740
Telephone 304 623-6671

Subscribed and sworn before me this 27th day of April, 1993

[Signature] Notary Public
My commission expires December 9, 2002