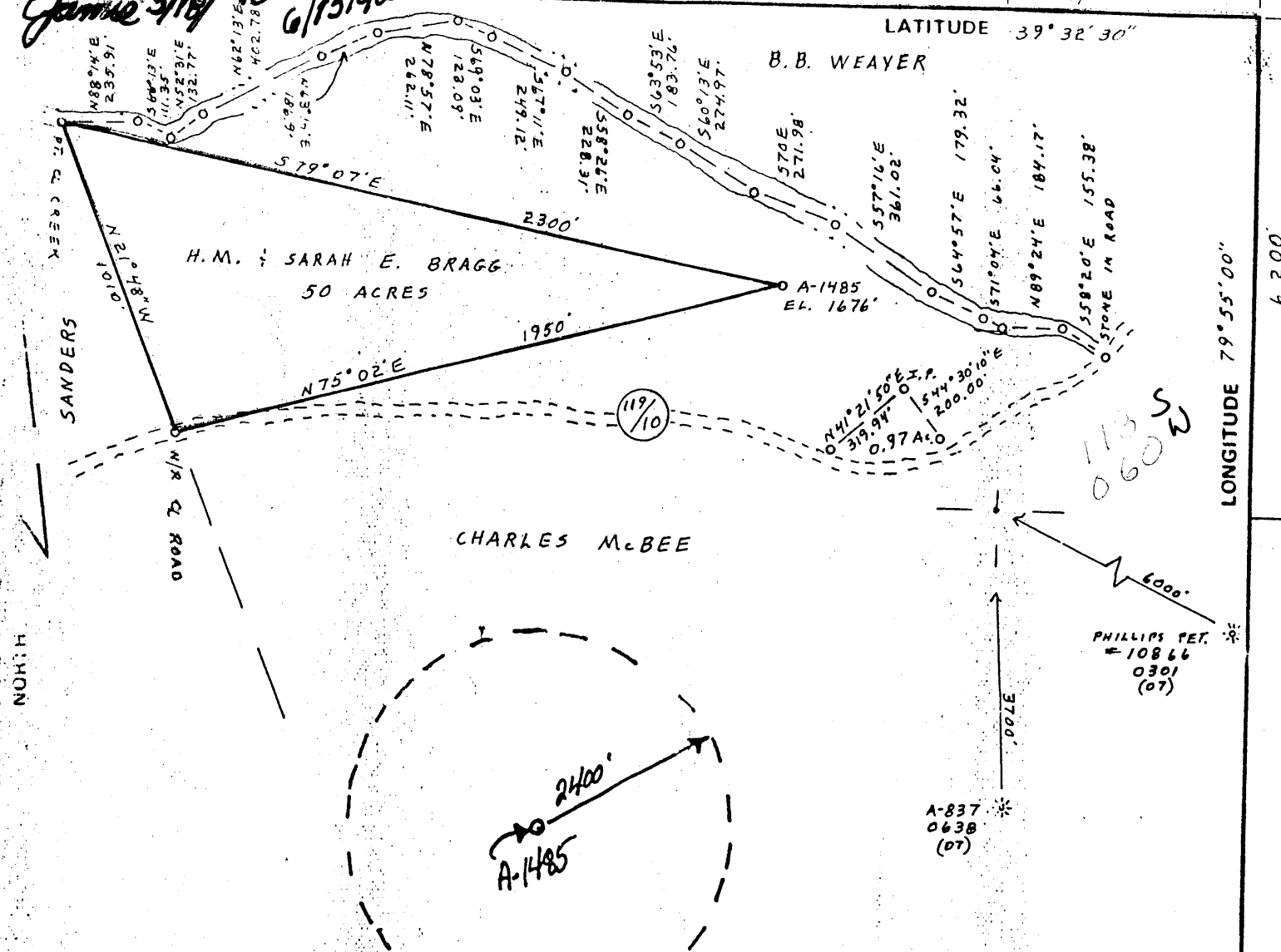


Jamie 5/19/90 6/15/92



Issue Formerly 061-0961 Expired

REFERENCES

550°25'E 149' TO 10" HY.
573°40'W 194' TO 18" FORKED LOGUST

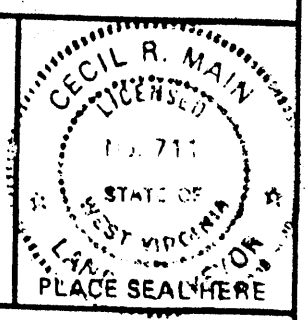
BRAGG UNIT	286.998 Ac.
BRAGG	49.0325 Ac. 17.08%
GAMBLE	0.9675 Ac. 0.34
HUGGINS	35.00 Ac. 12.18%
STUBNA	29.125 Ac. 10.15
ASHLEY	172.873 Ac. 60.23

638

4.06 S
0.60 W

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200'
PROVEN SOURCE OF ELEVATION INTERSECTION OF RT. 119 & RT. 119/10
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 MINES.
(SIGNED) Cecil R. Main
R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE JULY 3, 1989
OPERATOR'S WELL NO. A-1485
API WELL NO. (Revised) 47-061-1078
STATE 061 COUNTY MONONGALIA PERMIT Was: 961

(1) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
LOCATION: ELEVATION 1676' WATER SHED OWL CREEK
DISTRICT CLINTON 4 COUNTY MONONGALIA
QUADRANGLE MORGANTOWN SOUTH 7.5' mgmt SW
SURFACE OWNER H.M. & SARAH E. BRAGG ACREAGE 50
OIL & GAS ROYALTY OWNER H.M. & SARAH E. BRAGG LEASE ACREAGE 50
LEASE NO. 2218

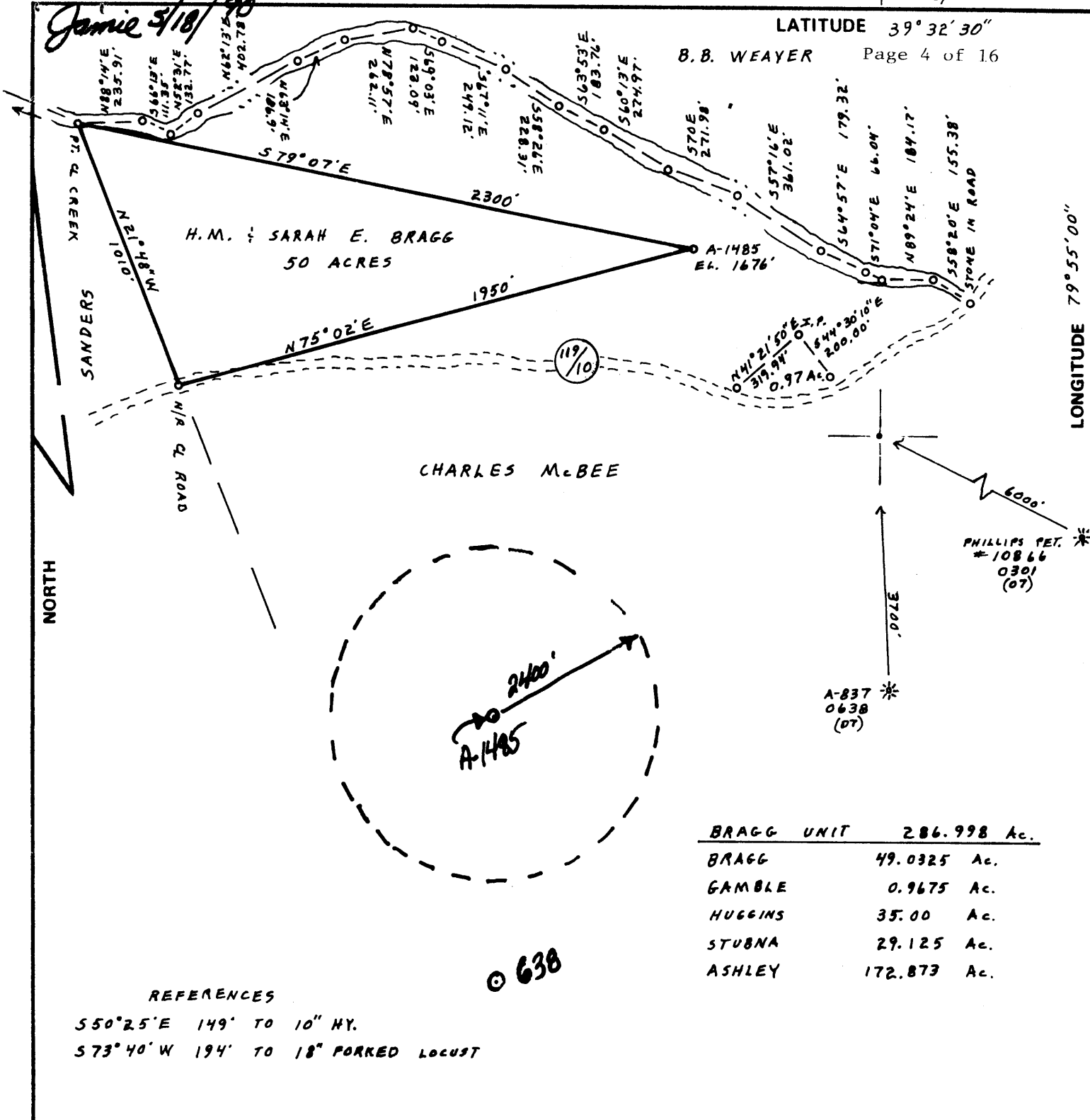
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ 6-6
TARGET FORMATION ORISKANY ESTIMATED DEPTH 8200' South Burns Chapel (313)
WELL OPERATOR ALAMCO, INC. DESIGNATED AGENT MARTY PERRY
ADDRESS P.O. BOX 1740, CLARKSBURG, W.V. 26302-1740 ADDRESS P.O. BOX 1740, CLARKSBURG, W.V. 26302-1740
DEEP WELL

JUN 22 1989

Jamie 5/18/70

B. B. WEAYER



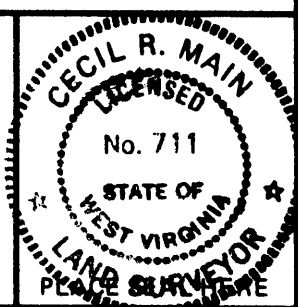
BRAGG UNIT	286.998 Ac.
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GAMBLE	0.9675 Ac.
HUGGINS	35.00 Ac.
STUBNA	29.125 Ac.
ASHLEY	172.873 Ac.

REFERENCES

550°25'E 149' TO 10" HY.
 573°40'W 194' TO 18" FORKED LOCUST

FILE NO. _____
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 ELEV. 1873'

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 (SIGNED) Cecil R. Main
 R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JULY 3, 1989
 OPERATOR'S WELL NO. A-1485
 API WELL NO. (Revised) 47-061-0961
 STATE COUNTY PERMIT

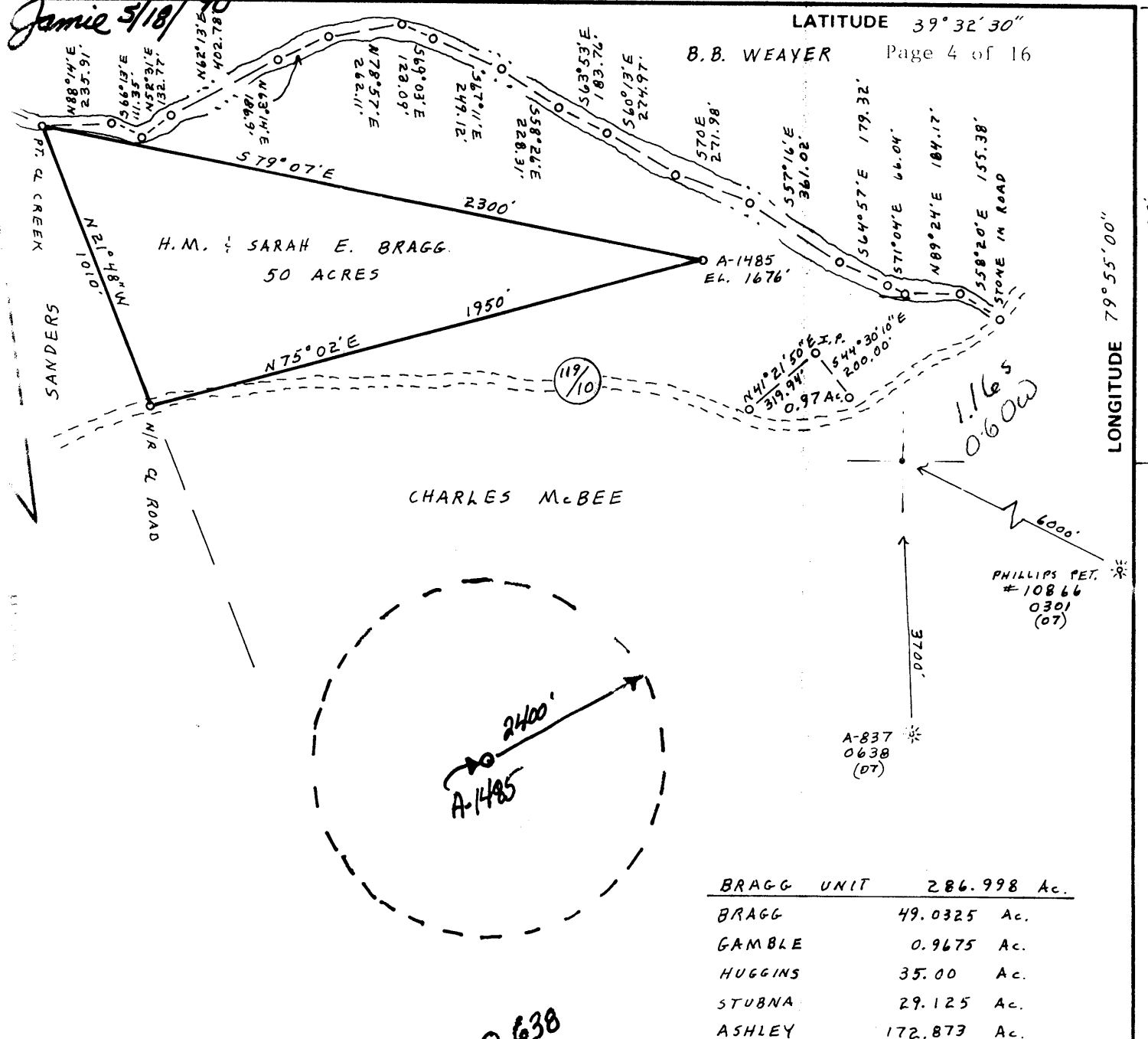
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 1676' WATER SHED OWL CREEK
 DISTRICT CLINTON COUNTY MONONGALIA
 QUADRANGLE MORGANTOWN SOUTH 7.5'
 SURFACE OWNER H. M. & SARAH E. BRAGG ACREAGE 50
 OIL & GAS ROYALTY OWNER H. M. & SARAH E. BRAGG LEASE ACREAGE 50
 LEASE NO. 2218
 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 ORISKANY ESTIMATED DEPTH 8200'
 WELL OPERATOR ALAMCO, INC. DESIGNATED AGENT MARTY PERRI
 ADDRESS P.O. BOX 1740, CLARKSBURG, W.V. 26302-1740 ADDRESS P.O. BOX 1740, CLARKSBURG, W.V. 26302-1740

Cancelled
 Now 1078

AUG 14 1992

FORM IV-6 (8-78)

Jamie 5/18/90



CHARLES McBEE

H. M. & SARAH E. BRAGG
50 ACRES

PHILLIPS PAT. #10866
0301 (07)

A-837
0638 (07)

BRAGG UNIT	286.998 Ac.
BRAGG	49.0325 Ac.
GAMBLE	0.9675 Ac.
HUGGINS	35.00 Ac.
STUBNA	29.125 Ac.
ASHLEY	172.873 Ac.

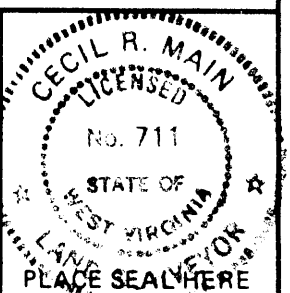
REFERENCES

550°25'E 149' TO 10" HY.
573°40'W 194' TO 18" FORKED LOCUST

638

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200'
 PROVEN SOURCE OF ELEVATION INTERSECTION OF RT. 119 & RT. 119/10
 ELEV. 1873'

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 (SIGNED) Cecil R. Main
 R.P.E. _____ L.L.S. 711



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



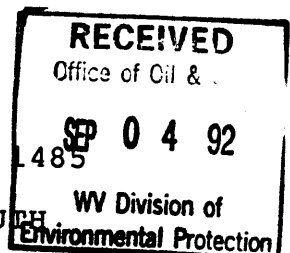
DATE JULY 3, 1989
 OPERATOR'S WELL NO. A-1485
 API WELL NO. (Revised)
 47 - 061 - 0961
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP SHALLOW ___
 LOCATION: ELEVATION 1676' WATER SHED OWL CREEK
 DISTRICT CLINTON 4 COUNTY MONONGALIA
 QUADRANGLE MORGANTOWN SOUTH 7.5'
 SURFACE OWNER H. M. & SARAH E. BRAGG ACREAGE 50
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PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 8200'
 WELL OPERATOR ALAMCO, INC. DESIGNATED AGENT MARTY PERRI
 ADDRESS P.O. BOX 1740, CLARKSBURG, W.V. ADDRESS P.O. BOX 1740, CLARKSBURG, W.V.
 26302-1740 26302-1740
 MAY 29 1990

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

Well Operator's Report of Well Work



Farm name: BRAGG, H M & SARAH Operator Well No.: A 1485

LOCATION: Elevation: 1676.00 Quadrangle: MORGANTOWN SOUTH

District: CLINTON County: MONONGALIA
Latitude: 6200 Feet South of 39 Deg. 32Min. 30 Sec.
Longitude 3723 Feet West of 79 Deg. 55 Min. 0 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"	35.40'	33.00'	None
8-5/8"	1238.50'	1238.50'	To Surface
4-1/2"	7709.30'	7709.30'	To 6526' KB

Agent: MARTY L. PERRI

Inspector: RANDAL MICK
Permit Issued: 06/15/92
Well work Commenced: 07/08/92
Well work Completed: 08/31/92

Verbal Plugging
Permission granted on: -
Rotary XX Cable Rig
Total Depth (feet) 7786' KB
Fresh water depths (ft) 95' KB

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

OPEN FLOW DATA

Producing formation Huntersville Chert Pay zone depth (ft) 74-19' KB
Gas: Initial open flow 215 MCF/d Oil: Initial open flow - Bbl/c
Final open flow 1970 MCF/d Final open flow - Bbl/c
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 2950 psig (surface pressure) after 60 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/c
Final open flow _____ MCF/d Final open flow _____ Bbl/c
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.

For: ALAMCO, INC. SEP 21 1992
By: [Signature]
Date: 9/3/92

Reviewed TMG
Recorded _____

FORMATION RECORD
Permit No. MON-1078

From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)	From	To	Rock Type (describe rock types and other materials penetrated and record occurrences of oil, gas and water from surface to total depth)
0	5	Fill			
5	124	Sand			
124	124	Sand & Shale - coal? up 8ft			
296	360	Sand			
360	390	Sand & Shale			
390	410	Sand			
410	450	Sand & Shale			
450	630	RR Sand & Shale			
630	850	Sand			
850	950	Sand & Shale			
950	990	Sand			
990	1005	Sand & Shale			
1005	1047	Sand			
1047	1070	Sand & Shale			
1070	1105	Sand			
1105	1127	Sand & Shale			
1127	1140	Sand			
1140	1165	Sand & Shale			
1165	1174	Sand			
1174	1194	Sand & Shale			
1194	1215	Sand			
1215	1324	Sand & Shale			
1324	1335	Sand			
1335	1752	Sand & Shale			
1752	1780	Sand			
1780	1818	Sand & Shale			
1818	1862	Sand			
1862	1920	Sand & Shale			
1920	1943	Sand			
1943	2195	Sand & Shale			
2195	2225	Sand			
2225	2255	Sand & Shale			
2255	2335	Sand			
2335	2440	Sand & Shale			
2440	2450	Sand			
2450	2516	Shale			
2516	2540	1st Speechley			
2540	2553	Shale			
2553	2586	2nd Speechley			
2586	2718	Shale			
2718	2724	Balltown			
2724	2850	Shale			
2850	2870	Sand			
2870	2910	Sand & Shale			
2910	2950	Sand			
2950	3680	Sand & Shale			
3680	3690	Sand (Brown)			
3690	7025	Sand & Shale			
7025	7106	Tully Lime			
7106	7296	Sand & Shale			
7296	7404	Marcellus Shale			
7404	7419	Onondaga			
7419	7600	Huntersville Chert			
7600	7632	Sand & Shale			
7632	7786	Oriskany			

1" H₂O @ 95' KB
 Gas @ 1759' KB = 189 MCF/D
 Gas @ 1883' KB = 189 MCF/D
 Gas @ 2443' KB = 158 MCF/D
 Gas @ 2664' KB = 189 MCF/D
 Gas @ 3100' KB = 189 MCF/D
 Gas @ 3690' KB = 189 MCF/D
 Gas @ 3752' KB = 189 MCF/D
 Gas @ 5929' KB = 179 MCF/D
 Gas @ 7075' KB = 158 MCF/D
 Gas @ 7413' KB = 146 MCF/D
 Gas @ 7506' KB = 215 MCF/D
 Gas @ 7600' KB = 253 MCF/D
 Gas @ 7786' KB = 215 MCF/D
 Gas @ Collars = 169 MCF/D

Perforation Intervals:

7471' - 7505' KB - 18 holes
 7520' - 7530' KB - 3 holes
 7538' - 7544' KB - 3 holes

Well was fractured on
 08/28/92 with 14,700# of
 80/100 sand and 60,000#
 20/40 sand in a 30# gel
 system with 5% HCl
 throughout.

3757

061-1078

RECEIVED
Office of Oil & Gas Permitting
MAY 26 92
WV Division of Environmental Protection

Issued 6/15/92
Expires 6/15/93

FORM WW-2B

3 of 13

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

- 1) Well Operator: ALAMCO, INC. (975) (4) 484
- 2) Operator's Well Number A-1485 (BRAGG) 3) Elevation: 1676'
- 4) Well type: (a) OIL / or GAS XX /
(b) If Gas: Production XX / Underground Storage /
Deep XX / ⁴⁷⁵ Shallow /
- 5) Proposed Target Formation(s): ORISKANY
- 6) Proposed Total Depth: 8200 feet
- 7) Approximate fresh water strata depths: @ 120' - 190'
- 8) Approximate salt water depths: -0-
- 9) Approximate coal seam depths: -0- Below Coal
- 10) Does land contain coal seams tributary to active mine? Yes / No XX
- 11) Proposed Well Work: Drill and complete new well
- 12) 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"			30'		Cement to Surface
Fresh Water						
Coal						
Intermediate	8-5/8"			1,200'	⁴⁷⁵ 1,200'	As required 38 CSR 18-11
Production	4-1/2"	N-80	11.6	8,200'	8,200'	As required 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 Blanket C.D. Agent
 TYPE

13151

072848
22

Page 1 of 13
Form WW2-A
(09/87)

- 1) Date: April 28, 1992
- 2) Operator's well number
A-1485 (BRAGG)
- 3) API Well No: 47 - 061 - 1078
State - County - Permit

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

RECEIVED
 Office of Oil & Gas
 Permitting
 MAY 26 1992

- | | |
|--|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>H. M. & Sarah Bragg</u>
Address <u>Route 9, Box 90</u>
<u>Morgantown, WV 26505</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>NONE</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>H. M. & Sarah Bragg</u>
Address <u>Route 9, Box 90</u>
<u>Morgantown, WV 26505</u></p> <p>Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>NONE</u>
Address _____</p> |
| <p>6) Inspector <u>Randal Mick</u>
Address <u>Route 3, Box 248</u>
<u>Weston, WV 26452</u>
Telephone (304)- _____</p> | |

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
 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 _____ on the above named parties, by:

_____ Personal Service (Affidavit attached)
 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: Marty Reese
 Its: _____
 Address 200 West Main Street
Clarksburg, WV 26301
 Telephone 304 623-6600

Subscribed and sworn before me this 28th day of April, 1992
Jessie A. Cox
 My commission expires February 21, 1999

COMMISSIONER
 Notary Public
 XXXXXXXXXXXXXXX

- 1) Well Operator: ALAMCO, INC. 975 (4) 484
- 2) Operator's Well Number: A-1485 (BRAGG) 3) Elevation: 1676
- 4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production X/ Underground Storage /
Deep X/ Shallow
- 5) Proposed Target Formation(s): Oriskany 475
- 6) Proposed Total Depth: 8200 feet
- 7) Approximate fresh water strata depths: -0- OK @ 120'-190'
- 8) Approximate salt water depths: -0- OK ?
- 9) Approximate coal seam depths: -0- Below coal
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- 11) Proposed Well Work: Drill and complete new well
- 12)

CASING AND TUBING PROGRAM

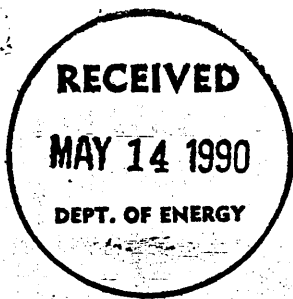
10638

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4"			30'		Cement to surface
Fresh Water						
Coal						38CSR18-11.3 38CSR18-11.2
Intermediate	8-5/8"			1,200'	1,200'	To surface
Production	4-1/2"	N-80	11.6	8,200'	8,200'	As required by Rule
Tubing						38CSR18-11.1
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 L.C. Blanket
 Agent
(Type)



1) Date: August 3, 1989
2) Operator's well number
A-1485 Bragg
3) API Well No: 47 - 061 - 0961
State - County - Permit

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

4) Surface Owner(s) to be served:
(a) Name H. M. & Sarah Bragg
Address Route 9, Box 90
Morgantown, WV 26505
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Donald Ellis
Address 2604 Crab Apple Lane
Fairmont, WV 26554
Telephone (304)- 534-5596

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name H. M. & Sarah Bragg
Address Route 9, Box 90
Morgantown, WV 26505
Name _____
Address _____
(c) Coal Lessee with Declaration
Name None
Address _____

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Well Operator ALAMCO, INC.
By: Math Perri
Its: Manager, Land
Address P. O. Box 1740
Clarksburg, WV 26301
Telephone 304 623-6671

Subscribed and sworn before me this 10th day of May, 1989

Elsie Coy
My commission expires February 21, 1990

Commissioner
NRAKX/ PPHAAE