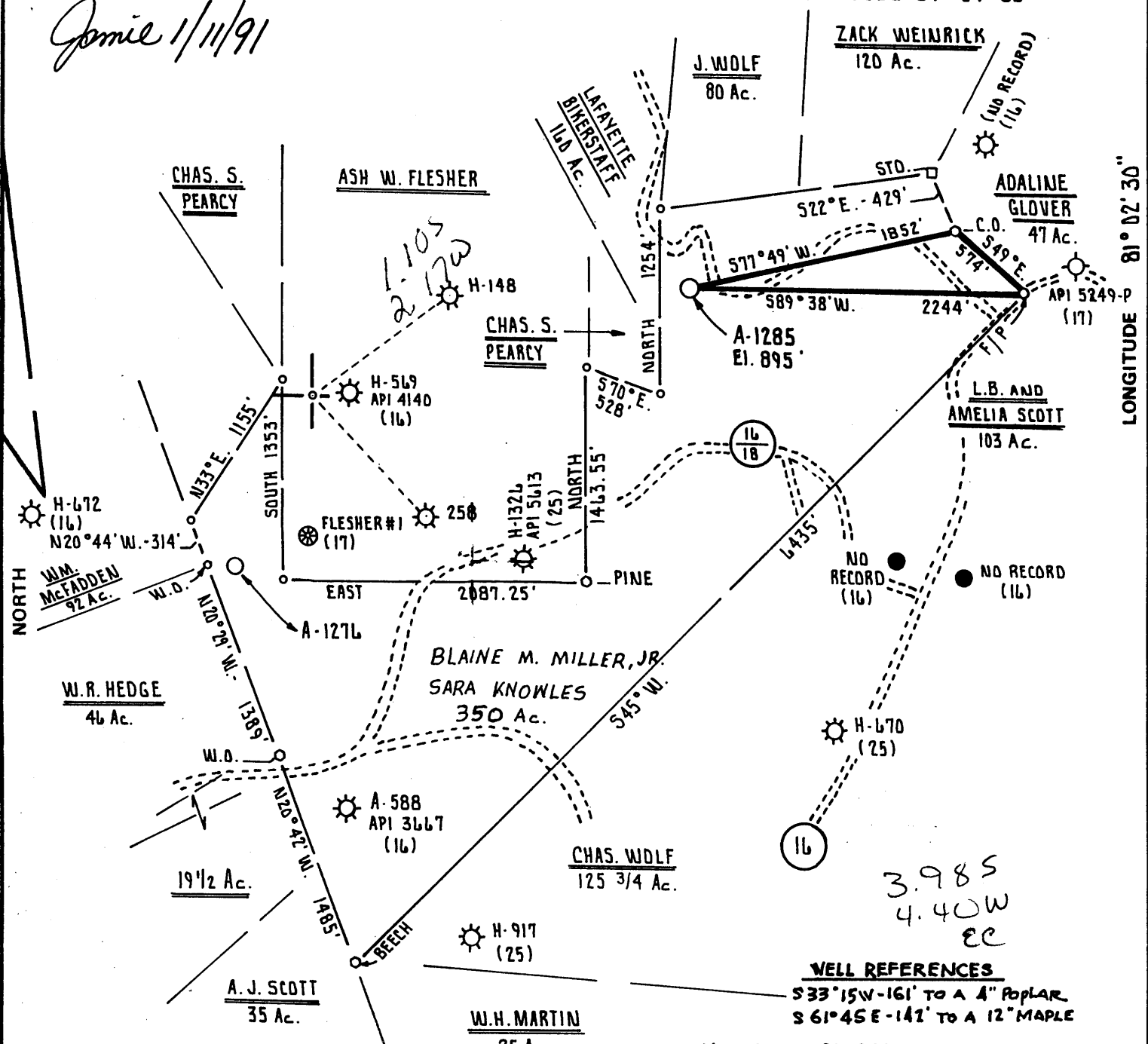


Janie 1/11/91

11,450'

LATITUDE 39° 07' 30"



LONGITUDE 81° 02' 30"

5,775'

WELL REFERENCES
 S33°15'W-161' TO A 4" POPLAR
 S 61°45'E-142' TO A 12" MAPLE

MAP SHEET 81 523 W26

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION Intersection of Plum Run Road and Route 16 Elev. 1057'

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



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



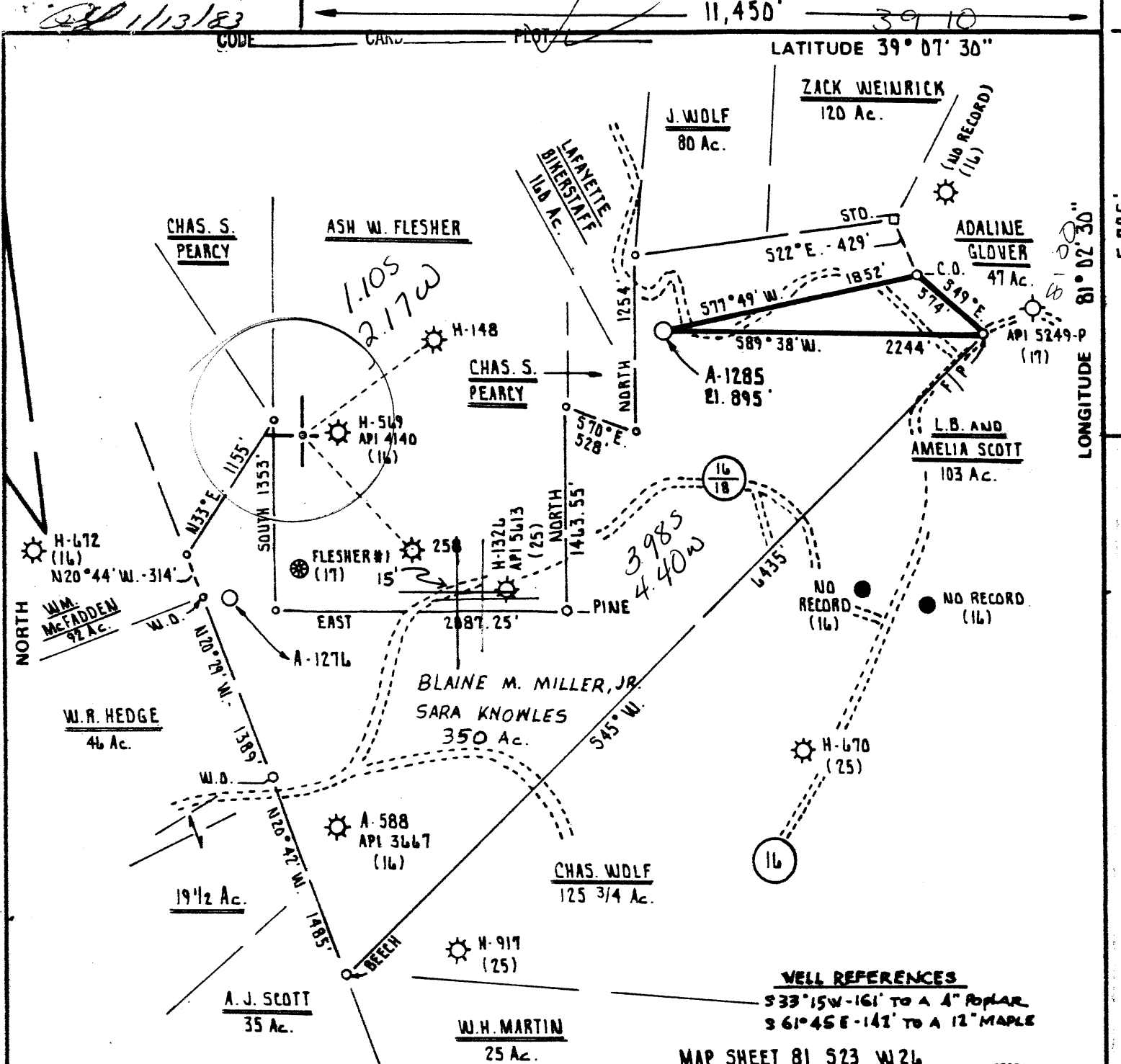
DATE DECEMBER 12, 1985
 OPERATOR'S WELL NO. A-1285
 API WELL NO. 47-085-7475-F
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 895' WATER SHED PLUM RUN
 DISTRICT MURPHY COUNTY RITCHIE
 QUADRANGLE SMITHVILLE 7.5' Hamisville
 SURFACE OWNER BLAINE M. MILLER, JR. and SARAH KNOWLES ACREAGE 350 Ac.
 OIL & GAS ROYALTY OWNER BLAINE M. MILLER, JR. and SARAH KNOWLES LEASE ACREAGE 350 Ac.
 LEASE NO. 1592
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

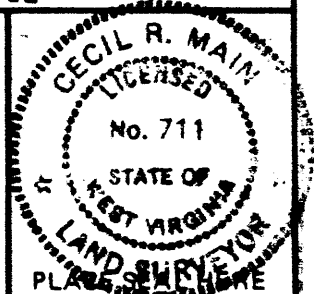
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5100'
 WELL OPERATOR ALLEGHENY LAND and MINERAL CO. DESIGNATED AGENT Marty Perri
 ADDRESS P.O. BOX 1740 ADDRESS P.O. BOX 1740
CLARKSBURG, WEST VIRGINIA 26302-1740 CLARKSBURG, WEST VIRGINIA 26302-1740

RT 7475



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION Intersection of Plum Run Road and Route 16 Elev. 1057'

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



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



DATE DECEMBER 12 19 85
 OPERATOR'S WELL NO. A-1285
 API WELL NO. 47-085-7475
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

(Formerly: 085-6204)

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 895' WATER SHED PLUM RUN
 DISTRICT MURPHY COUNTY RITCHIE
 QUADRANGLE SMITHVILLE 7.5' 612 057 EC6 Harrisville
 SURFACE OWNER BLAINE M. MILLER, JR. and SARA KNOWLES ACREAGE 350 Ac.
 OIL & GAS ROYALTY OWNER BLAINE M. MILLER, JR. and SARA KNOWLES LEASE ACREAGE 350 Ac.
 LEASE NO. 1592
 PROPOSED WORK: DRILL X 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 5100'
 WELL OPERATOR ALLEGHENY LAND and MINERAL CO. DESIGNATED AGENT DANIEL L. WHEELER
 ADDRESS P.O. BOX 1740 0011 ADDRESS P.O. BOX 1740
CLARKSBURG, WEST VIRGINIA 26302-1740 CLARKSBURG, WEST VIRGINIA 26302-1740

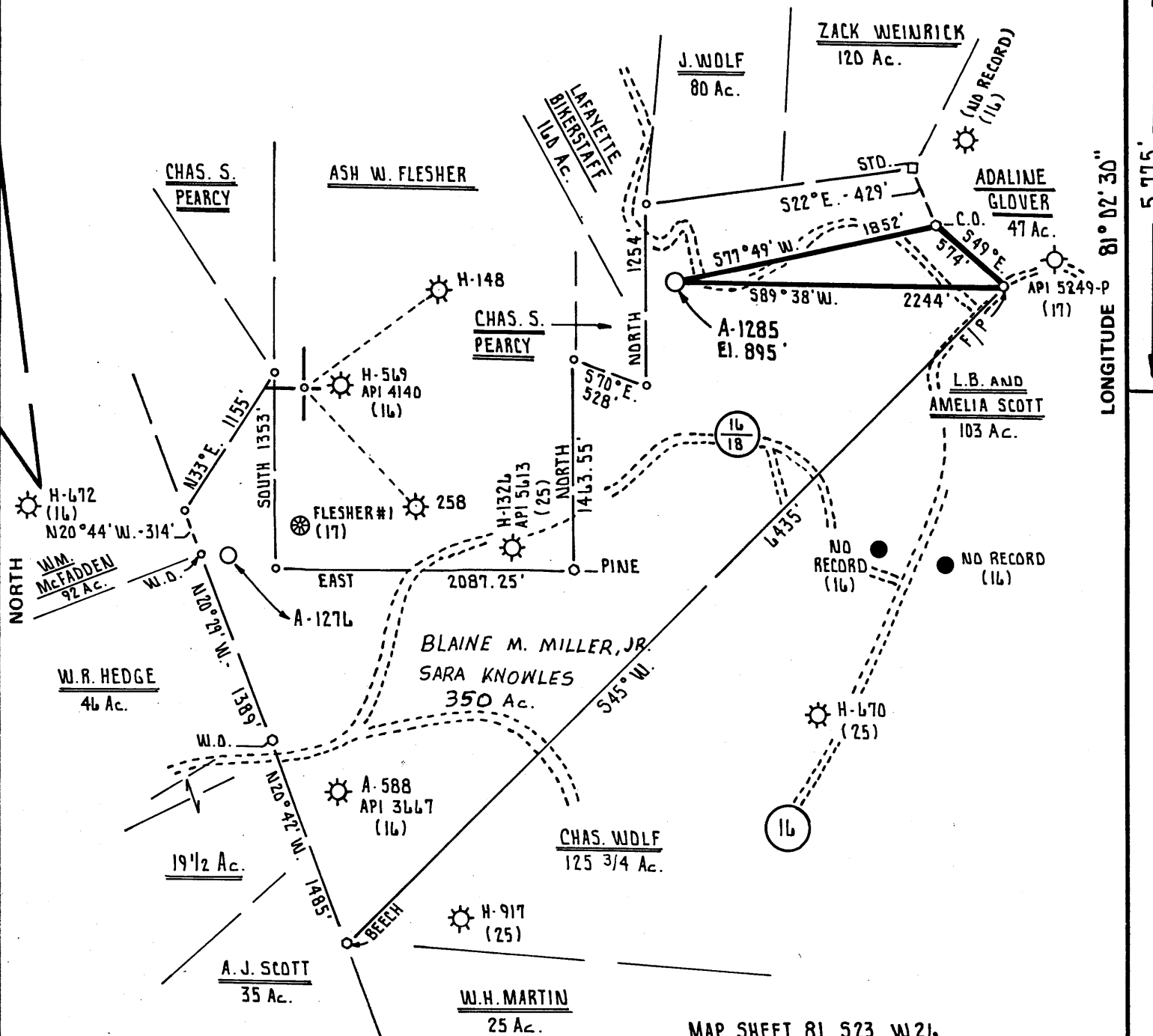
JAN 13 1986

11,450'

LATITUDE 39° 07' 30"

LONGITUDE 81° 02' 30"

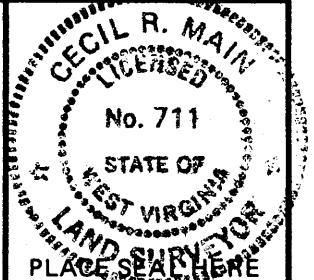
5,775'



MAP SHEET 81 523 W26

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION Intersection of Plum Run Road and Route 16 Elev. 1057'

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



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



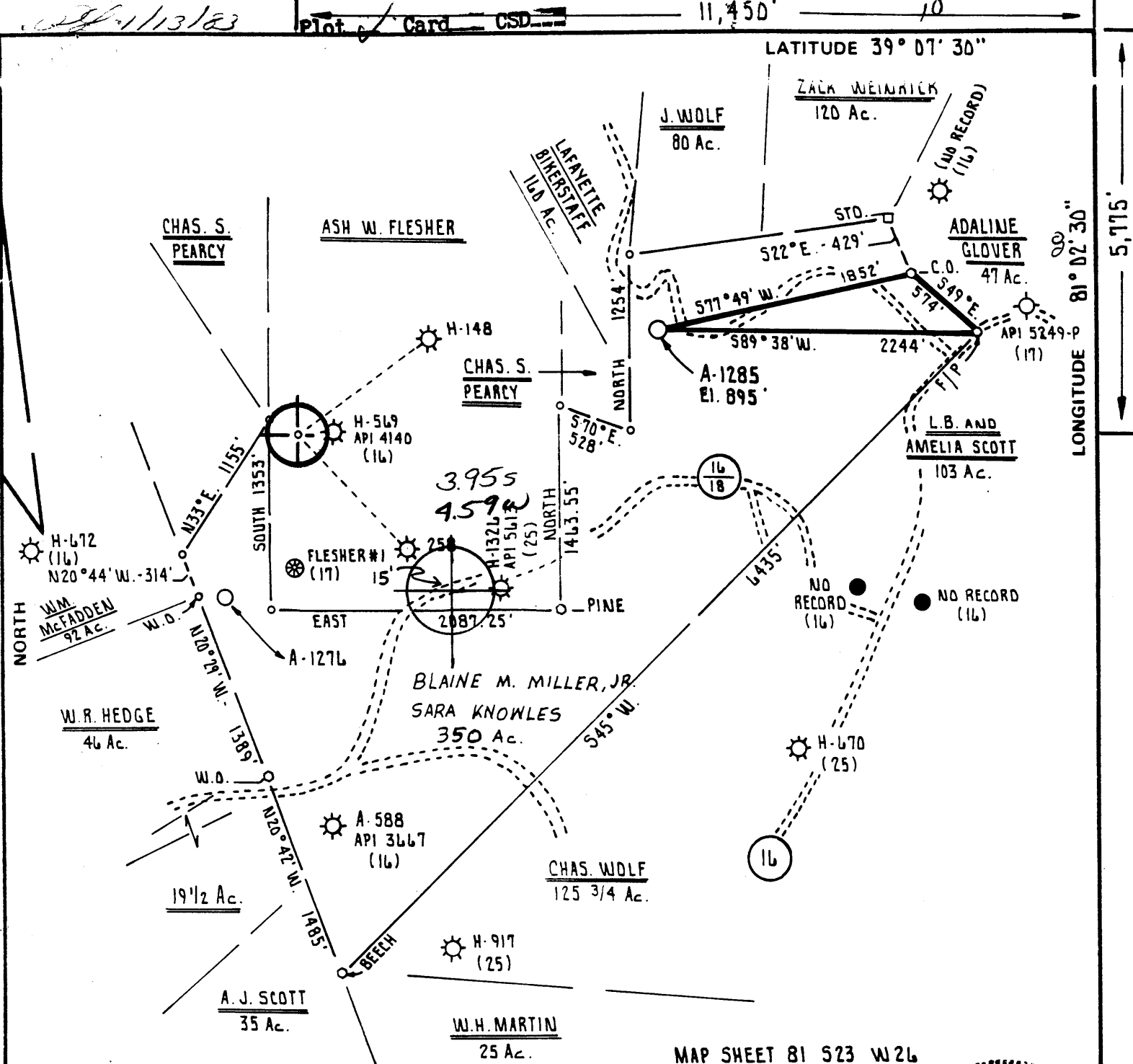
DATE DECEMBER 13TH, 19 82
 OPERATOR'S WELL NO. A-1285
 API WELL NO. 47-085-6204
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

*Cancelled
 Ser. Ret - 7475*

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 895' WATER SHED PLUM RUN
 DISTRICT MURPHY COUNTY RITCHIE
QUADRANGLE SMITHVILLE 7.5'
 SURFACE OWNER BLAINE M. MILLER, JR. and SARAH KNOWLES ACREAGE 350 Ac.
 OIL & GAS ROYALTY OWNER BLAINE M. MILLER, JR. and SARAH KNOWLES LEASE ACREAGE 350 Ac.
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 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5100'
 WELL OPERATOR ALLEGHENY LAND and MINERAL CO. DESIGNATED AGENT DANIEL L. WHEELER
 ADDRESS P.O. BOX 1740 ADDRESS P.O. BOX 1740
CLARKSBURG, WEST VIRGINIA 26302-1740 CLARKSBURG, WEST VIRGINIA 26302-1740

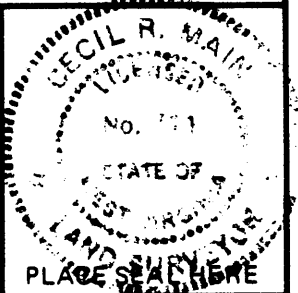
JAN 13 1986



MAP SHEET 81 523 W26

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION Intersection of Plum Run Road and Route 16 Elev. 1057'

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



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



DATE DECEMBER 13TH 1982
 OPERATOR'S WELL NO. A-1285
 API WELL NO. _____
47 - 085 - 6204
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

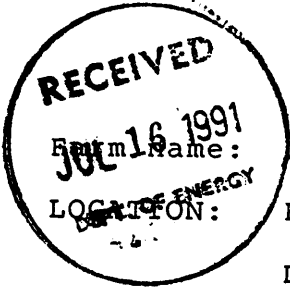
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 895' WATER SHED PLUM RUN
 DISTRICT MURPHY COUNTY RITCHIE
 QUADRANGLE SMITHVILLE 7.5' Harrisville 15' EC
 SURFACE OWNER BLAINE M. MILLER, JR. and SARAH KNOWLES ACREAGE 350 Ac.
 OIL & GAS ROYALTY OWNER BLAINE M. MILLER, JR. and SARAH KNOWLES LEASE ACREAGE 350 Ac.
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PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5100'
 WELL OPERATOR ALLEGHENY LAND and MINERAL CO. DESIGNATED AGENT DANIEL L. WHEELER
 ADDRESS P.O. BOX 1740 ADDRESS P.O. BOX 1740
CLARKSBURG, WEST VIRGINIA 26302-1740 CLARKSBURG, WEST VIRGINIA 26302-1740

JAN 31 1983

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work



Form Name: MILLER, B & KNOWLES, S. Operator Well No.: A-1285

LOCATION: Elevation: 895.00 Quadrangle: SMITHVILLE

District: MURPHY County: RITCHIE
Latitude: 5775 Feet South of 39 Deg. 7 Min. 30 Sec.
Longitude 11450 Feet West of 81 Deg. 2 Min. 30 Sec.

Company: ALAMCO, INC.

200 W. MAIN ST., P.O. BOX 1740 | Casing | Used in | Left | Cement

CLARKSBURG, WV 26302-1740

Agent: MARTY L. PERRI

Inspector: SAMUEL HERSMAN
Permit Issued: 01/11/91
Well work Commenced: 4/24/91
Well work Completed: 5/10/91
Verbal Plugging
Permission granted on:
Rotary Cable Rig
Total Depth (feet) 4000'
Fresh water depths (ft) 105
Salt water depths (ft) N/A

| Tubing & Drilling Size | in Well | Fill Up Cu. Ft. |
|------------------------|---------|-----------------|
| SEE ORIGINAL | | |
| | | |
| | | |
| | | |
| | | |
| | | |

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

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) _____
Gas: Initial open flow N/A MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow N/A 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

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

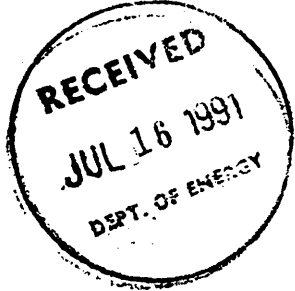
91 prod
2530 mcf+
2560
92 prod
1352 mcf
93 prod
1560 mcf
94 prod
3817 mcf

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.

By: Richard R. Hoffman
Date: 7/15/91

JUL 29 1991



1. Set solid plug @ 4,000' to temporarily abandon lower zones.
2. Recemented Big Injun through stage tool @ 3,560 w/415 sks. 50/50 POZ, 2% gel, 18% salt, leaving cement top @ 1,500'.
3. Fractured well on May 1, 1991, perforated Big Injun 1,876-1,950', pumped 300 sks. 20/40 sand.
4. Well is currently being tested.

11729

RECORDED
DEPARTMENT OF ENERGY
OIL AND GAS



IV-35
(Rev 8-81)

MAR 28 1986

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

Date March 18, 1986
Operator's _____
Well No. A-1285
Farm Miller
API No. 47 - 085 - 7475

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: 905' Watershed Plum Run
District: Murphy County: Ritchie Quadrangle: Smithville

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
Blaine Miller and
SURFACE OWNER Sarah Knowles
c/o Union National Bank - Parkersburg
ADDRESS P.O.Box 298, Parkersburg, WV 26101
Blaine Miller and
MINERAL RIGHTS OWNER Sarah Knowles
c/o Union Natinal Bank - Parkersburg
ADDRESS P.O.Box 298, Parkersburg, WV 26101

OIL AND GAS INSPECTOR FOR THIS WORK Samuel
P.O.Box 66
Hersman ADDRESS Smithville, WV 26178

PERMIT ISSUED October 9, 1985

DRILLING COMMENCED February 12, 1986

DRILLING COMPLETED February 20, 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" | 27' | Pulled | |
| 9 5/8" | | | |
| 8 5/8" | 1050' | 1050' | to surface |
| 7" | | | |
| 5 1/2" | | | |
| 4 1/2" | 5979' | 5979' | 3900' w/365 sks. |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Brown Shale DEPTH 5423 FEET

Depth of completed well 5997 feet Rotary X / Cable Tools _____
Water Strata depth: Fresh Damp 105' feet Salt _____ feet
Coal seam depth: _____ Is coal being mined in this area? No

OPEN FLOW DATA

Producing formation 3 Brown Shale, Elk, Alexander Pay zone depth See Back feet
Gas: Initial open flow 3.7 Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,560 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1600 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)

APR 7 1986

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

Well was fractured February 27, 1986 *ph sample*
 Perforations: Brown Shale 5750' - 5937', 12 holes
 Brown Shale 5575' - 5726', 12 holes
 Brown Shale-Elk 5300' - 5558', 10 holes
Jawa Alexander 4850' - 4936', 10 holes

WELL LOG

| FORMATION COLOR HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fresh and salt water, coal, oil and gas |
|------------------------------|----------|------------------|--|
| Sand and Shale | 0 | 152 | Hole Damp @105' |
| Red Rock | 152 | 610 | Gas Check @2514', 35 Mcf/d |
| Shale | 610 | 1770 | Gas Check @3037', 103 Mcf/d |
| Lime | 1770 | 1798 | Gas Check @3099', 94 Mcf/d |
| Big Lime | 1798 | 1893 | Gas Check @3500', 60 Mcf/d |
| Big Injun | 1893 | 1900 | Gas Check @3720', 60 Mcf/d |
| Sand and Shale | 1900 | 2740 | Gas Check @4519', 84 Mcf/d |
| Gordon | 2740 | 2750 | Gas Check @4550', 60 Mcf/d |
| Sand and Shale | 2750 | 3410 | Gas Check @4831', 60 Mcf/d |
| Speechley | 3410 | 3430 | Gas Check @5107', 60 Mcf/d |
| Sand and Shale | 3430 | 4380 | Gas Check @5688', 84 Mcf/d |
| Riley | 4380 | 4390 | Gas Check @5997', 60 Mcf/d |
| Sand and Shale | 4390 | 4650 | |
| Benson | 4650 | 4665 | <u>Gamma Ray Log Tops</u> ✓ |
| Sand and Shale | 4665 | 4915 | Little Lime 1674' |
| Alexander | 4915 | 4930 | Big Lime 1768' |
| Sand and Shale | 4930 | 5345 | Big Injun 1828' <i>Gas</i> |
| Elk | 5345 | 5370 | Pocono 1939' |
| Sand and Shale | 5370 | 5475 | Weir 2039' |
| Brown Shale | 5475 | <u>5997 T.D.</u> | Berea 2310' |
| | | | Gordon 2690' |
| | | | Speechley 3339' |
| | | | Balltown 3640' |
| | | | Riley 4335' |
| | | | Benson 4641' |
| | | | Alexander 4864' |
| | | | Elk 5304' |
| | | | Brown Shale 5423' |

From nearby wells:
 bp thickness
 2220 1300
 3620 1140
 Jawa 4760 220
 Argola 4980 320
 5300 560
 Ashaqua 5860

(Attach separate sheets as necessary)

ALAMCO, INC.

Well Operator

By: Wallace G. Darden *[Signature]*
 Manager, Drilling and Completion

Date: March 18, 1986

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."

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

Issued 11/11/91

085-07475 F
 Expires 11/11/93

Well Operator: ALAMCO, INC. 975 (3) 611

Operator's Well Number: A-1285 (Miller) 3) Elevation: 895'

Well type: (a) Oil / or Gas xx
 (b) If Gas: Production xx / Underground Storage /
 Deep / Shallow xx

Proposed Target Formation(s): Big Injun

Proposed Total Depth: 4000 feet

Approximate fresh water strata depths: 105'

Approximate salt water depths:

Approximate coal seam depths: N/A

Does land contain coal seams tributary to active mine? Yes / No XX

Proposed Well Work: SEE ATTACHED Set Temporary Plug Squeeze

SEE ATTACHED & Seal Existing well

CASING AND TUBING PROGRAM

New Formation

| TYPE | SPECIFICATIONS | | FOOTAGE INTERVALS | | CEMENT | |
|--------------|----------------|-------|-------------------|--------------|--------------|-------------------------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | Fill-up (cu. ft.) |
| Conductor | 11-3/4" | | | 30' | 30' | |
| Fresh Water | | | | | | |
| Intermediate | 8-5/8" | | | 1154' | 1154' | To surface |
| Production | 4-1/2" | | J.55 10.50# | 5979' | 5979' | 300' above top pay zone |
| Tubing | | | | | | 365-SKS |
| Packers | | | | | | |

Existing from well record

RECEIVED
 DEC 26 1991

PACKERS : Kind
 Sizes
 Depths set

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

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

1829
38

RECEIVED
DEC 20 1990
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: December 13, 1990
Operator's well number
A-1285 (Miller)
API Well No: 47 - 085 - 07475 F
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- | | |
|---|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Blaine Miller & Sarah Knowles</u> Address <u>c/o Parkersburg ^{Union} National Bank</u> <u>P. O. Box 298</u></p> <p>(b) Name <u>Parkersburg, WV 26101</u> Address _____</p> <p>(c) Name _____ Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name _____ Address _____</p> <p>(b) Coal Owner(s) with Declaration Name <u>Blaine Miller & Sarah Knowles</u> Address <u>c/o Union Nat'l Bank of Parkersburg</u> <u>P. O. Box 298</u> Name <u>Parkersburg, WV 26101</u> Address _____</p> <p>(c) Coal Lessee with Declaration Name _____ Address _____</p> |
| <p>6) Inspector <u>Samuel Hersman</u> Address <u>Route 1, Box 240</u> <u>Harrisville, WV 26362</u> Telephone (304)- <u>628-3185</u></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
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 26301
Telephone 304 623-6671

Subscribed and sworn before me this 14th day of December, 1990

[Signature]
My commission expires February 21, 1999

COMMISSIONER
~~XXXXXXXXXXXX~~



1) Date: October 9, 1985
 2) Operator's Well No. A1285 (Miller)
 3) API Well No. 47 085-7475
 State County Permit

7/85
RECEIVED
OCT 15 1985

GAS OLD API - 47-085-6204 - REN.

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 895' / Watershed: Plum Run
 District: Murphy / County: Ritchie / Quadrangle: Smithville 7.5'
- 6) WELL OPERATOR Alamco, Inc. 010 CODE: 975 7) DESIGNATED AGENT Marty L. Perri
 Address P. O. Box 1740 Address P. O. Box 1740
Clarksburg, WV 26302 Clarksburg, WV 26301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samuel Hersman
 Address P. O. Box 66
Smithville, WV 26178
- 9) DRILLING CONTRACTOR: Name Development Drilling
 Address P. O. Box 0
Jane Lew, West Virginia
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Brown Shale 44
- 12) Estimated depth of completed well, 5999 feet
- 13) Approximate strata depths: Fresh, None / 7100 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 FILLUP OR SACKS (Cubic feet) | PACKERS |
|-----------------------|----------------|-------|----------------|-----|------|-------------------|--------------|-------------------------------------|---------------------|
| | Size | Grade | Weight per ft. | New | Used | For drilling | Left in well | | |
| Conductor | 11-3/4" | | | | XX | 130' 20" | 130' 20" | Cement to surface | |
| Fresh water | | | | | | | | | |
| Coal | | | | | | | | | |
| Intermediate | 8-5/8" | | 20# | XX | | 2,000' | 2,000' | Case through Injun Cement | Size Injun Cement |
| Production | 4 1/2" | | 70-30# | XX | | 5,999' | 5,999' | Required by Rule 15.01 | to cover salt sands |
| Tubing | | | | | | | | | |
| Lin. | | | | | | | | | Perforations: |
| | | | | | | | | | Top Bottom |

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-085-7475

January 3 19 86
Date

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 January 3, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

| | | | | | | | |
|-------|------------|-----------|-----------|-------------|-----------|-----------|-------|
| Bond: | Agent: | Plat: | Casing | Fee | WPCP | S&E | Other |
| | <u>FLM</u> | <u>BS</u> | <u>MW</u> | <u>2106</u> | <u>MW</u> | <u>MW</u> | |

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

[Signature]
Director, Division of Oil and Gas

File

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