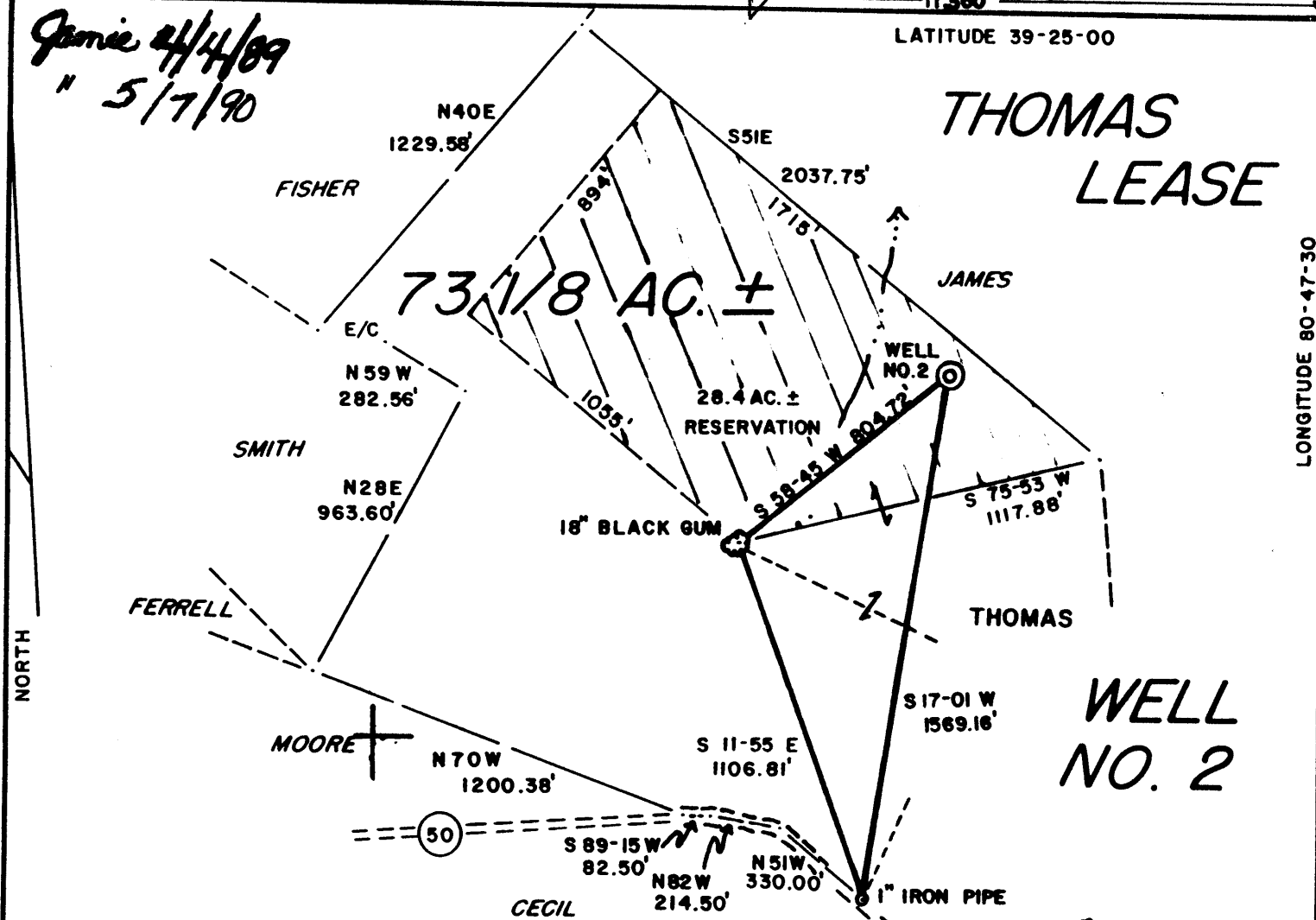
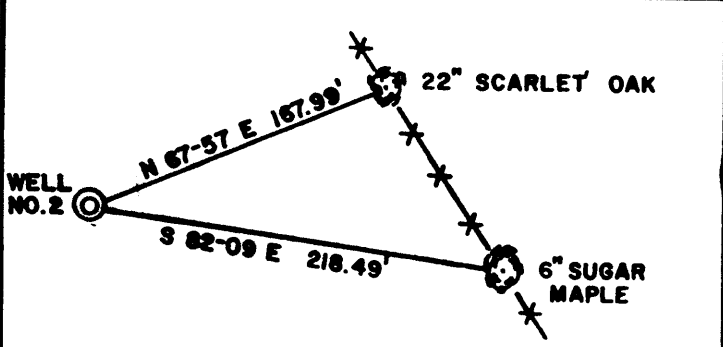


*Janie 4/4/89*  
*" 5/7/90*

# THOMAS LEASE



### REFERENCES

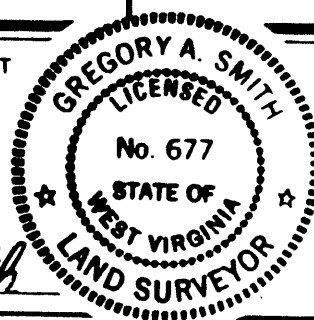


1"=100'



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.

L.L.S. 677 *Gregory A. Smith*



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

DATE APRIL 1, 19 89

OPERATORS WELL NO. THOMAS NO. 2A

API WELL NO. 47-095 STATE WV COUNTY TYLER PERMIT 1291-00

**CANCELLED**

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2036 (26-68)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1164' SCALE 1" = 500'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 884' WATERSHED BRANCH OF JEFFERSON RUN

DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE SHIRLEY 7.5'

SURFACE OWNER ROBERT P. & NAOMI S. THOMAS ACREAGE 73-1/8

ROYALTY OWNER ROBERT P. & NAOMI S. THOMAS LEASE ACREAGE 28.4 OF 73-1/8

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BENSON

ESTIMATED DEPTH 5125'

WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON

ADDRESS P.O. BOX 99, ALMA, WV 26320 ADDRESS P.O. BOX 99, ALMA, WV 26320

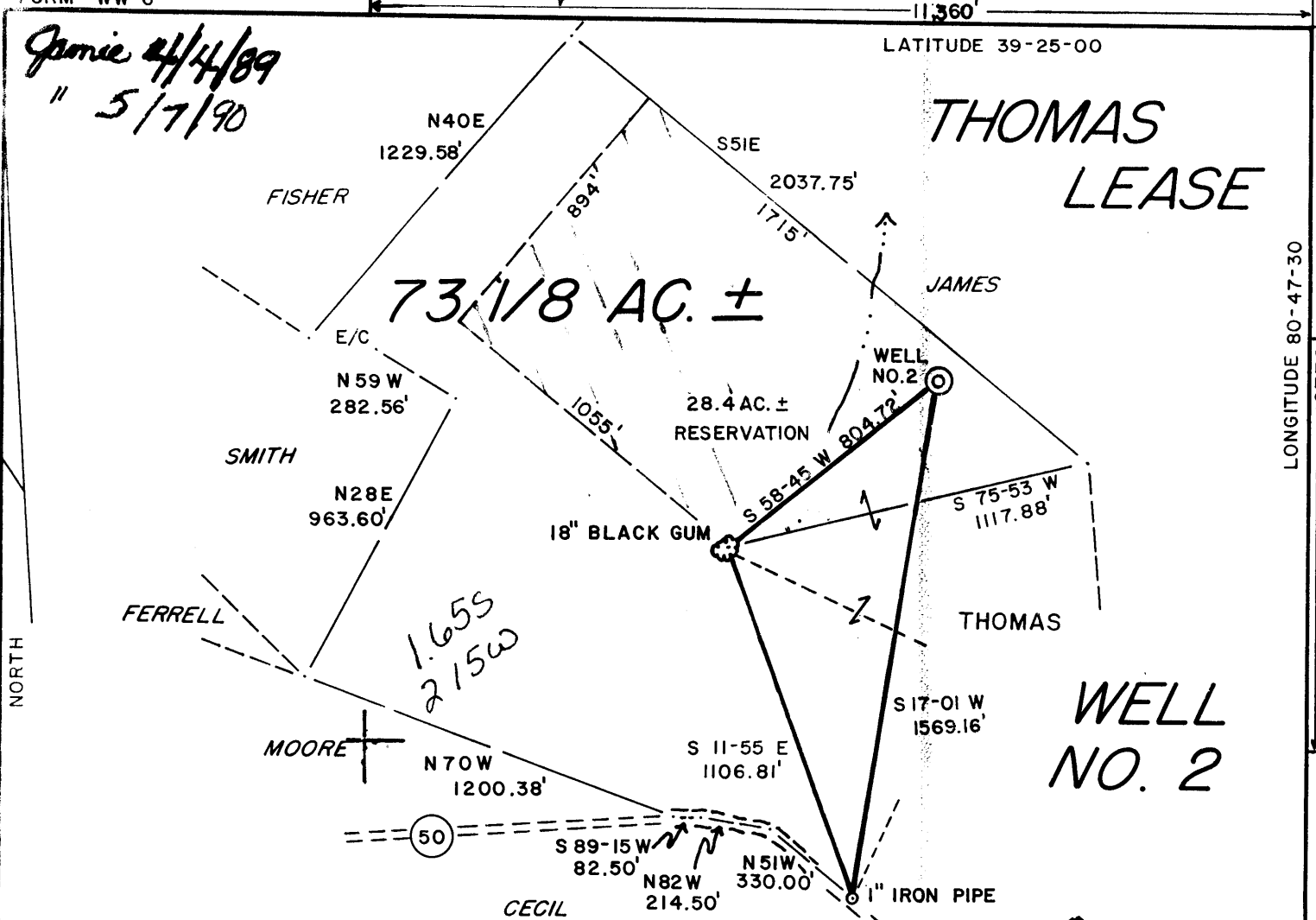
LONGITUDE 80-47-30

COUNTY NAME TYLER PERMIT 1291-00

575

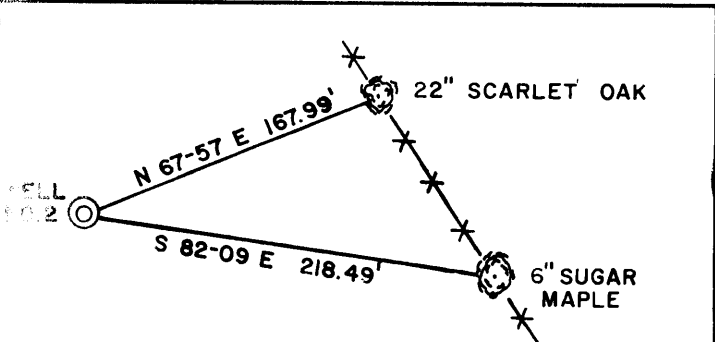
*Jamie 4/4/89*  
*" 5/7/90*

# THOMAS LEASE



LONGITUDE 80-47-30  
8770

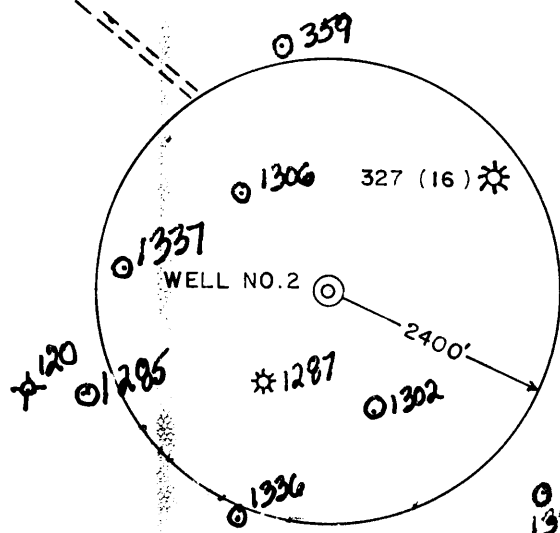
### REFERENCES



1"=100'

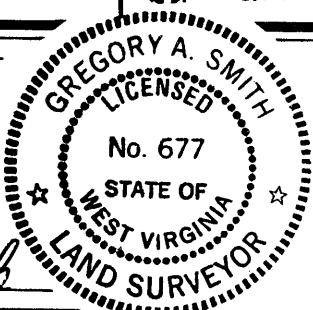


*1.66*  
*4.39*  
*West Union Ec*



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.

L.L.S. *Gregory A. Smith*  
677



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

DATE APRIL 1, 19 89

OPERATORS WELL NO. THOMAS NO. 2A

API WELL NO. 47-095 1291-00  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2036 (26-68)  
PROVEN SOURCE OF ELEVATION TOP OF KNOB 1164' SCALE 1"=500'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 884' WATERSHED BRANCH OF JEFFERSON RUN  
DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE SHIRLEY 7.5'  
SURFACE OWNER ROBERT P. & NAOMI S. THOMAS ACREAGE 73-1/8  
ROYALTY OWNER ROBERT P. & NAOMI S. THOMAS LEASE ACREAGE 28.4 OF 73-1/8  
PROPOSED WORK: LEASE NO. \_\_\_\_\_  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BENSON  
ESTIMATED DEPTH 5125'

WELL OPERATOR D.A.C. 280  
ADDRESS P.O. BOX 99, ALMA, WV  
26320

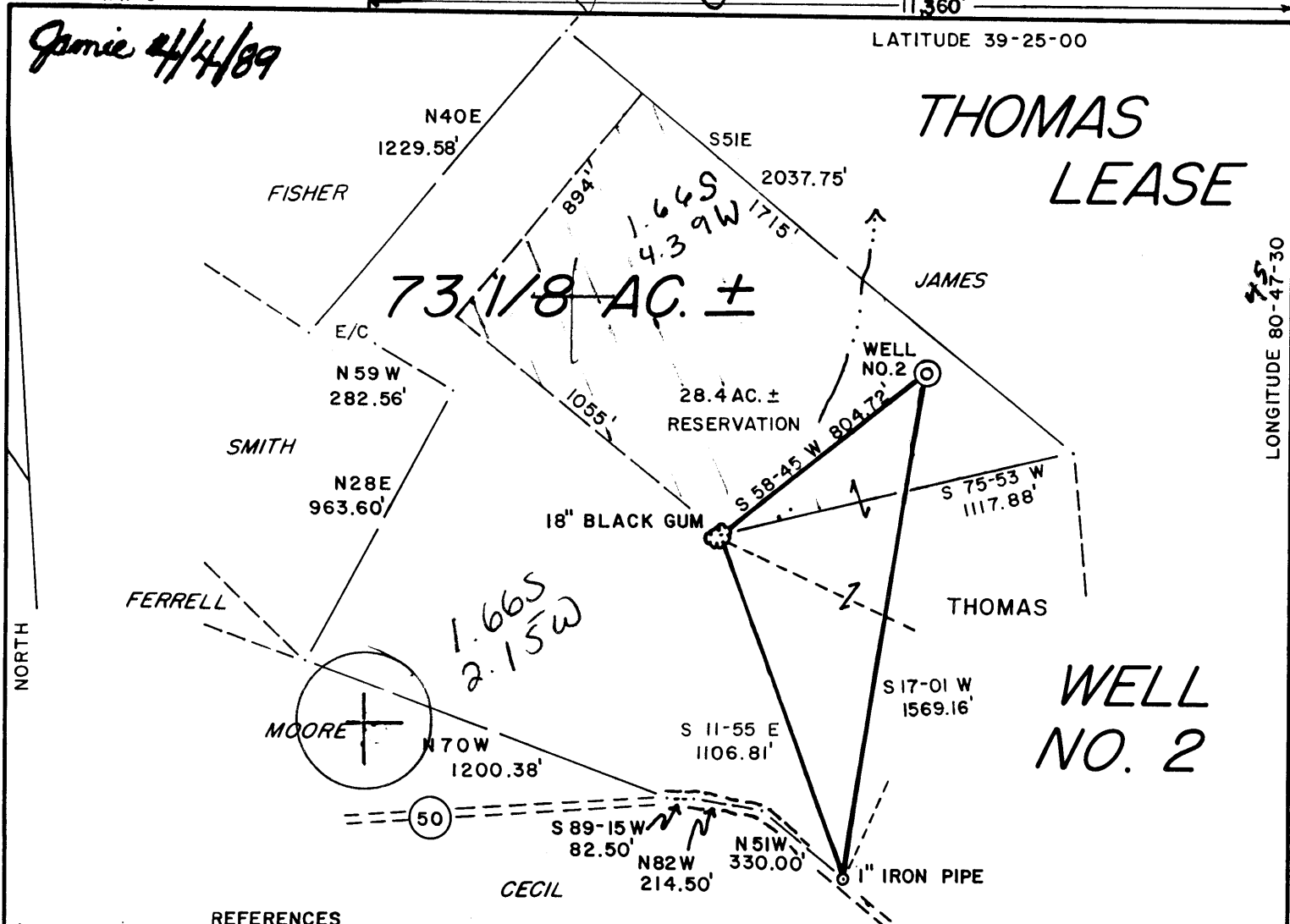
DESIGNATED AGENT KENNETH MASON MAY 11 1990  
ADDRESS P.O. BOX 99, ALMA, WV  
26320

COUNTY NAME TYLER  
PERMIT 1291

*Janie 4/4/89*

# THOMAS LEASE

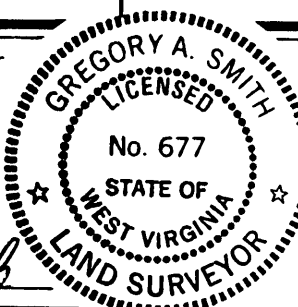
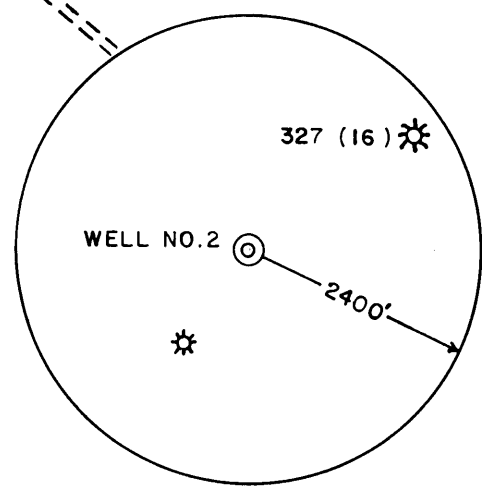
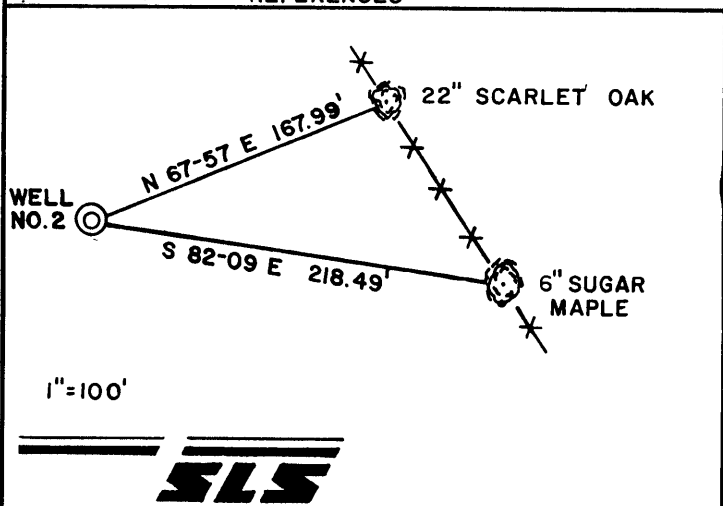
## 73 1/8 AC. ±



LONGITUDE 80-47-30

## WELL NO. 2

### REFERENCES




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.

L.L.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE APRIL 1, 19 89  
 OPERATORS WELL NO. THOMAS NO. 2A  
 API WELL NO. 47-095-1291  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2036 (26-68)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1164' SCALE 1" = 500'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

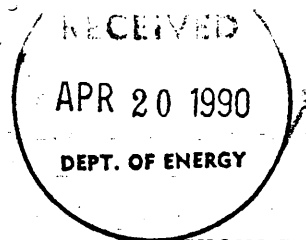


WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 884' WATERSHED BRANCH OF JEFFERSON RUN West Union EC  
 DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE SHIRLEY 7.5'607  
 SURFACE OWNER ROBERT P. & NAOMI S. THOMAS ACREAGE 73-1/8 133 1/4  
 ROYALTY OWNER ROBERT P. & NAOMI S. THOMAS LEASE ACREAGE 28.4 OF 73-1/8

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BENSON  
 ESTIMATED DEPTH 5125'

WELL OPERATOR D.A.C. 280 DESIGNATED AGENT KENNETH MASON APR 07 1989  
 ADDRESS P.O. BOX 99, ALMA, WV 26320 ADDRESS P.O. BOX 99, ALMA, WV 26320



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

Well Operator's Report of Well Work

Farm name: THOMAS, ROBERT P. & NAOMI Operator Well No.: THOMAS 2A

LOCATION: Elevation: 884.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER  
Latitude: 8770 Feet South of 39 Deg. 25Min. 0 Sec.  
Longitude 11360 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: DRILLING APPALACHIAN CORP  
P. O. BOX 99  
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: GLEN P. ROBINSON  
Permit Issued: 04/04/89  
Well work Commenced: 4/12/89  
Well work Completed: 4/14/89  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary Cable \_\_\_\_\_ Rig  
Total Depth (feet) \_\_\_\_\_  
Fresh water depths (ft) 75  
Salt water depths (ft) NONE  
Is coal being mined in area (Y/N)? NA  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	1775	1775	to SURFACE

OPEN FLOW DATA

Producing formation BIG INJUN SANDSTONE Pay zone depth (ft) 1870  
Gas: Initial open flow SNOW MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 198 MCF/d Final open flow - Bbl/d  
Time of open flow between initial and final tests 10 Hours  
Static rock Pressure 250 psig (surface pressure) after 4 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: This well does not have any production string; therefore, the well has not been perforated or fraced.

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: DRILLING APPALACHIAN CORP.

By: Kenneth R. Mason  
Date: 4/12/90

APR 27 1990

GEOLOGICAL WELL RECORD DATA

PERMIT NUMBER 47-095-1291

FORMATION	TOP	BOTTOM	REMARKS
SOIL	0	45	
SANDS AND SHALE	45	157	
SANDS AND SHALE	157	312	
SAND	312	343	
SHALE	343	478	
SAND	478	522	
SHALE	522	728	
SAND	728	796	
SHALE	796	1033	
SHALE	1033	1114	
SSAND	1114	1198	
SHALE	1198	1220	
SAND	1220	1341	
SHALE	1341	1396	
SAND	1396	1477	
SHALE	1477	1512	
SAND	1512	1550	
SHALE	1550	1738	
BIG LIME	1738	1790	
BIG INJUN	1790	1870	
SHALE	1870	1920	Gas at 1870

0878

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

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION 14425 1 606
- 2) Operator's Well Number: Thomas #2A 3) Elevation: \_\_\_\_\_
- 4) Well type: (a) Oil  / or Gas  /  
 (b) If Gas: Production  / Underground Storage  /  
 Deep  / Shallow  /
- 5) Proposed Target Formation(s): Benson/Riley
- 6) Proposed Total Depth: 5,100± feet
- 7) Approximate fresh water strata depths: 121, 159', 189, 351, 423'
- 8) Approximate salt water depths: 1650', 1671, 1901', 1901'
- 9) Approximate coal seam depths: None 809'-815', @456, 488, 566, 489
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Drill, perforate, stimulate new formation
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
<i>HTH</i>	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4"	H-40	27#	100'	100'	38CSR18-11.2
Fresh Water						
Coal					<i>Connect to surface</i>	38CSR18-11.2.2
Intermediate	8-5/8"	J-55	23#	1800'	1800'	"
Production	4-1/2"	J-55	10 1/2#	5000'	5000'	38CSR18-11.1 38CSR18-11.1
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

**RECEIVED**  
 APR 04 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY  
 WPCP

3959  
 9  
 Fee(s) paid;  Well Work Permit  Reclamation Fund  
 Plat  WW-9  WW-2B  Bond Blanket Agent  
 (Type)

**RECEIVED**  
APR 04 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1) Date: March 31, 1989  
2) Operator's well number  
Thomas #2A  
3) API Well No: 47 - 095 - 1291  
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 Robert P. & Naomi S. Thomas  
Address Box 11-B, Ross Run Rd.  
Wilbur, WV 26459
  - (b) Name ---  
Address \_\_\_\_\_
  - (c) Name ---  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name ---  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name n/a  
Address \_\_\_\_\_
- Name ---  
Address \_\_\_\_\_
- 6) Inspector Glen P. Robinson  
Address Rt 1, #6 Mt. Pleasant Estates  
Mineral Wells, WV 26150  
Telephone (304)- 489-9162
- (c) Coal Lessee with Declaration  
Name n/a  
Address \_\_\_\_\_

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

X 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 5 on the above named parties, by:

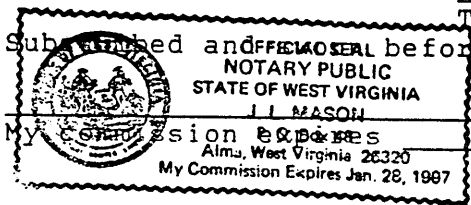
- \_\_\_\_\_ Personal Service (Affidavit attached)
- \_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

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 DRILLING APPALACHIAN CORPORATION  
By: *Kenneth Thomas*  
Its: President  
Address PO Box 99  
Alma, WV 26320  
Telephone 758-4638



1/28/97 \_\_\_\_\_ Notary Public

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

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION 14425 (L) 606
- 2) Operator's Well Number: Thomas #2-A 3) Elevation: 884'
- 4) Well type: (a) Oil X/ or Gas X/
- (b) If Gas: Production X/ Underground Storage     /  
 Deep     / Shallow X/
- 5) Proposed Target Formation(s): Benson/Riley <sup>4GS</sup>
- 6) Proposed Total Depth: 5100± feet
- 7) Approximate fresh water strata depths: 159'
- 8) Approximate salt water depths: 1650'
- 9) Approximate coal seam depths: --
- 10) Does land contain coal seams tributary to active mine? Yes     / No X
- 11) Proposed Well Work: Drill, perforate, stimulate new formation
- 12)

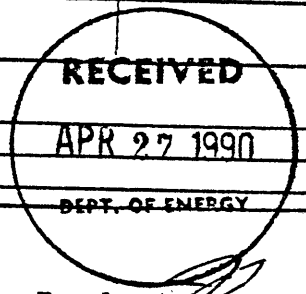
CASING AND TUBING PROGRAM

*Drill Existing Well deeper*

105501

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
<i>4/18/90</i> Conductor	11-3/4"	H-40	27#	117'	117'	CTS 38CSR18-11.2
Fresh Water						
Coal						
Intermediate	8-5/8"	J-55	23#	1775	1775	CTS 38CSR18-11.3
Production	4-1/2"	J-55	10½#	5,100'	5,100'	CTS 38CSR18-11.2 38CSR18-11.1
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

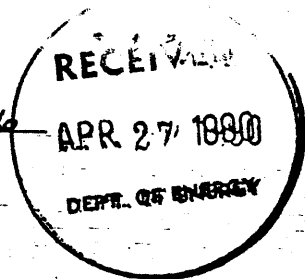


For Division of Oil and Gas Use Only

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

*5250*





- 1) Date: April 3, 1990
- 2) Operator's well number  
Thomas #2-A
- 3) API Well No: 47 - 095 - 1291 DD  
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 Robert P. & Naomi Thomas  
Address Box 11-B, Ross Run Road  
Wilbur, WV 26459
  - (b) Name ---  
Address \_\_\_\_\_
  - (c) Name ---  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name ---  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name n/a  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name n/a  
Address \_\_\_\_\_
- 6) Inspector Glenn P. Robinson  
Address Rt 1 #6 Mt. Pleasant Estates  
Mineral Wells, WV 26150  
Telephone (304)-489-2736

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  
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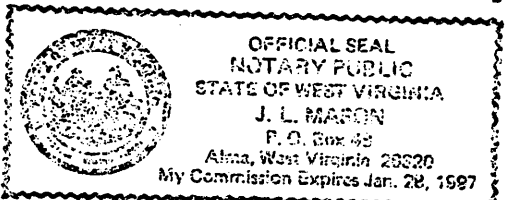
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- \_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

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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 DRILLING APPALACHIAN CORPORATION  
 By: *Rebecca R. Mason*  
 Its: President  
 Address PO Box 99  
Alma, WV 26320-0099  
 Telephone 758-4638



Subscribed and sworn before me this 3rd day of April, 1990

My commission expires 1/28/97 \_\_\_\_\_ Notary Public