

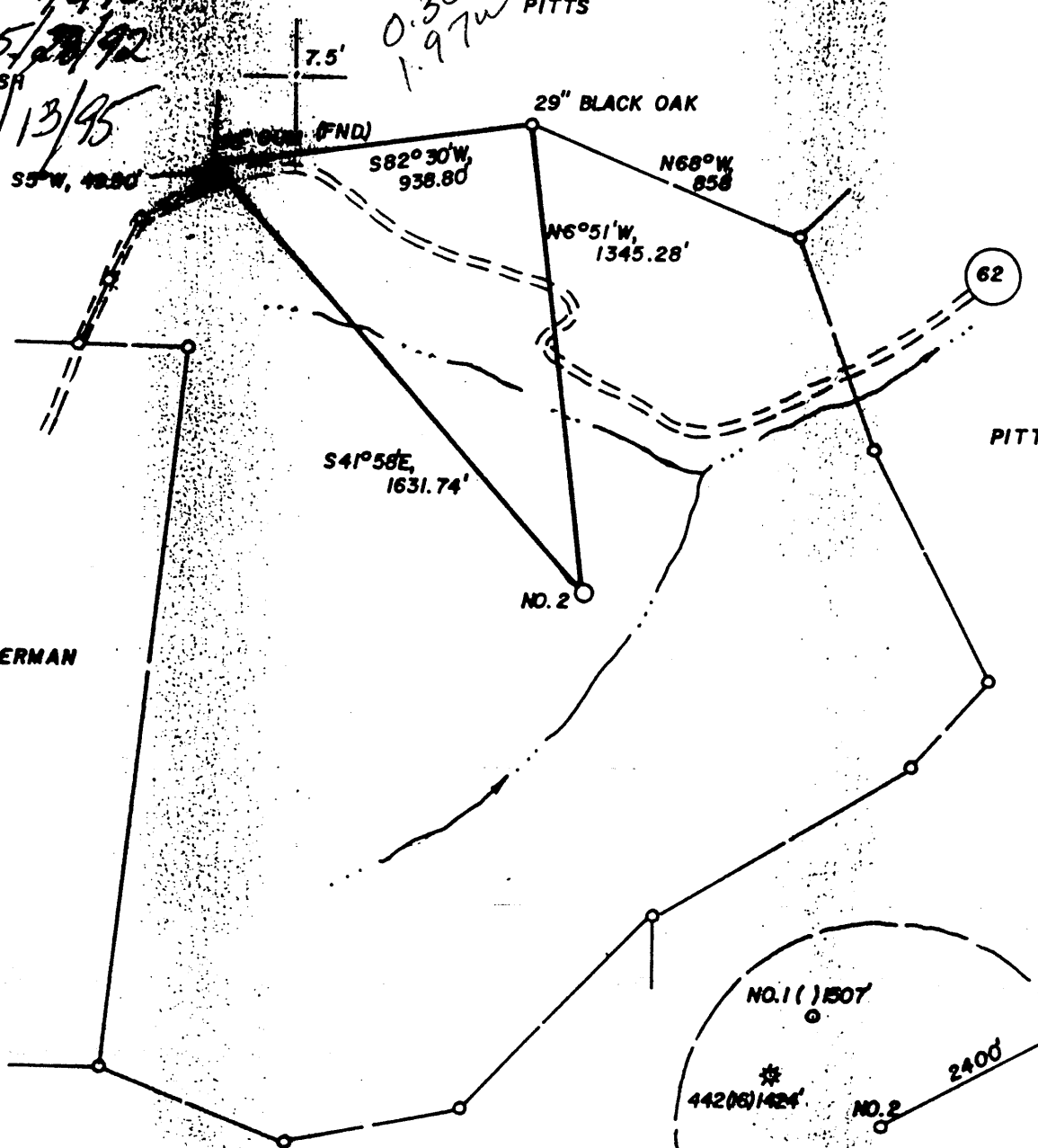
10,640

LATITUDE 38° 22' 30"

5961

Jamie 7/2/90
11 5/28/92
11 11/13/95

0.305
1.97W
PITTS



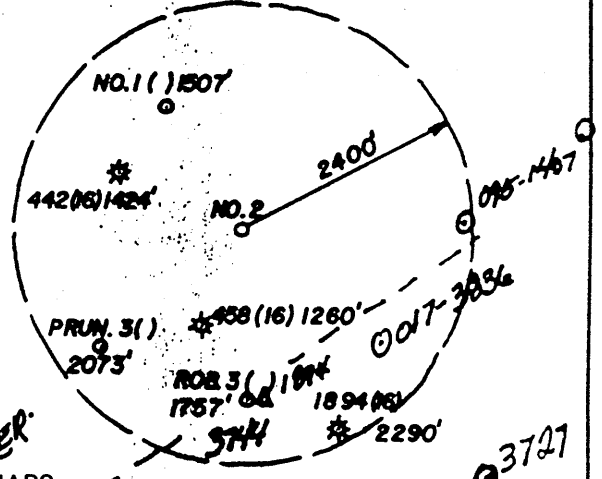
LONGITUDE 80° 45' 00"

NORTH
LIEBERMAN

PITTS

PETROVICH

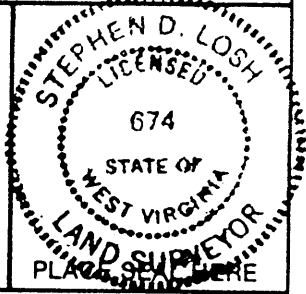
WELL REFERENCES:
N15°W, 116' TO 10" TWIN HICKORY
N56°W, 100' TO 5" WHITE OAK



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP KNOB 1345' N
 AT 1137'

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) _____
 R.P.E. _____ L.L.S. NO. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JUNE 6, 19 89
 OPERATOR'S WELL NO. NICHOLS NO. 2
 API WELL NO. 47-095-1406-W
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1000' WATER SHED SANDY RUN
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE WEST UNION 7.5'

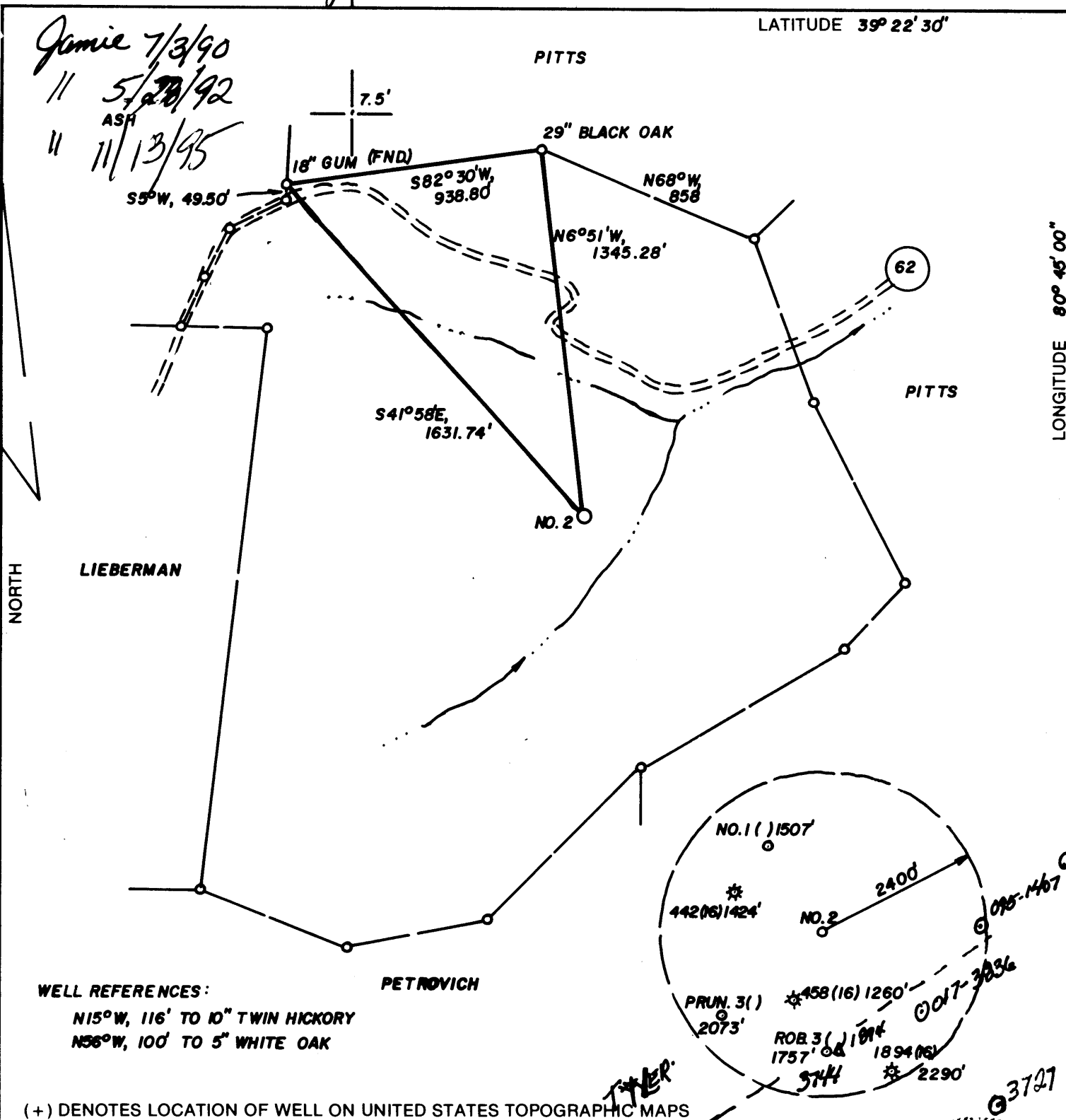
SURFACE OWNER RICHARD NICHOLS ACREAGE 126.
 OIL & GAS ROYALTY OWNER S. C. NICHOLS HEIRS LEASE ACREAGE 126.
 LEASE NO. _____

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Taxmap 22 Parcel 14

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BENSON ESTIMATED DEPTH 5300'
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT JESSE A. SHELL
 ADDRESS P.O. DRAWER R Dominion App. JANE LEW, WV 26378-0080 ADDRESS P. O. DRAWER R JANE LEW, WV 26378-0080

COUNTY NAME Tyler
PERMIT 1406 W

Jamie 7/3/90
11 5/28/92
ASH
11 11/13/95

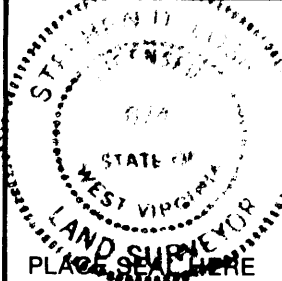


WELL REFERENCES:
 N15°W, 116' TO 10" TWIN HICKORY
 N56°W, 100' TO 5" WHITE OAK

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

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 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP KNOB 1345' N AT 1137'

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 (SIGNED) _____
 R.P.E. _____ L.L.S. NO. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

DATE JUNE 6, 19 89
 OPERATOR'S WELL NO. NICHOLS NO. 2
 API WELL NO. 47-095-1406-U

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

LOCATION: ELEVATION 1000' WATER SHED SANDY RUN
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE WEST UNION 7.5'

SURFACE OWNER RICHARD NICHOLS ACREAGE 126.
 OIL & GAS ROYALTY OWNER S. C. NICHOLS HEIRS LEASE ACREAGE 126.
 LEASE NO. _____

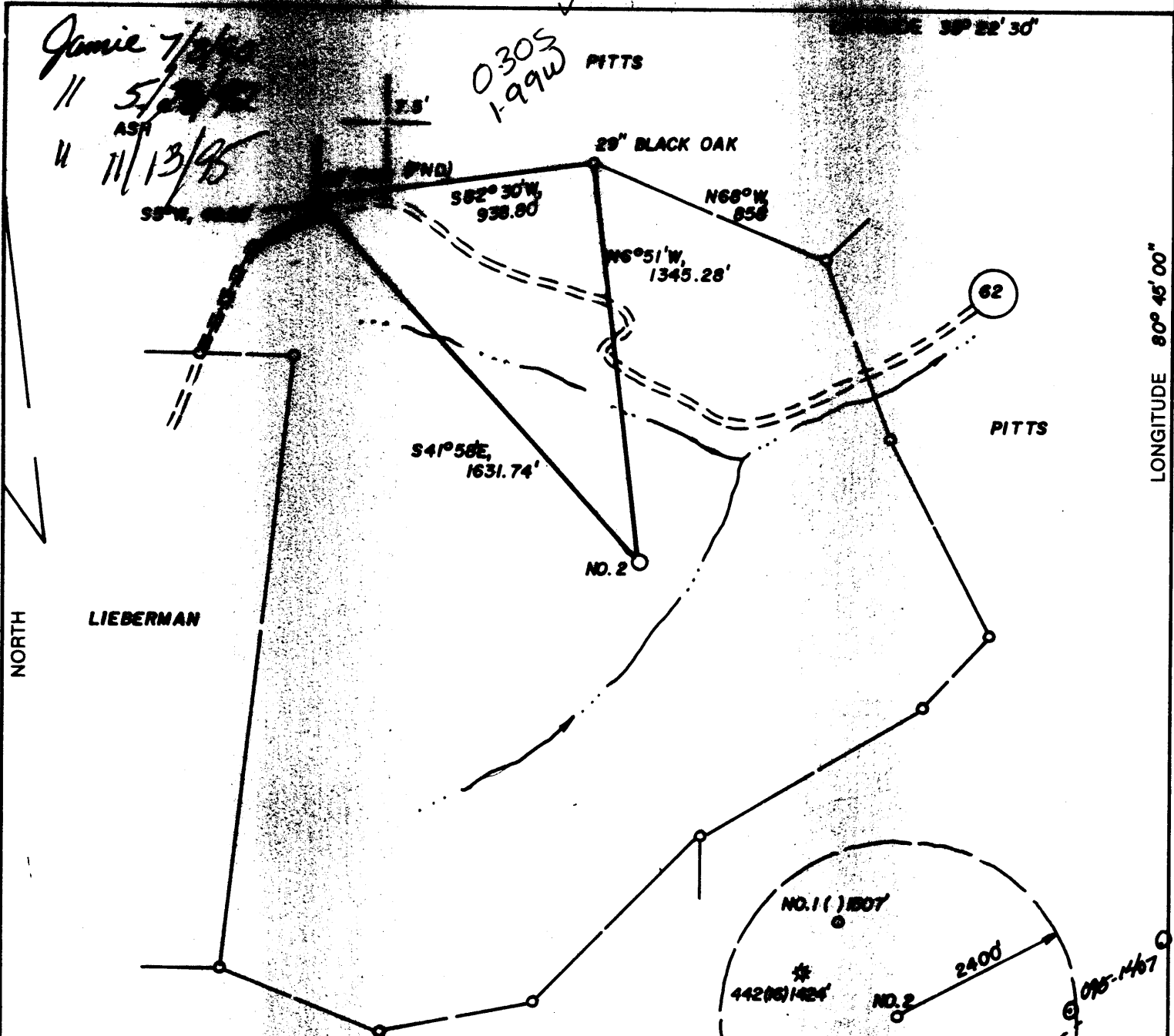
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BENSON ESTIMATED DEPTH 5300'

WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT JESSE A. SHELL
 ADDRESS P. O. DRAWER R ADDRESS P. O. DRAWER R
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

Jamie 7/1/95
11 5/2/95
ASH
11/13/95

0305
199W PITTS



LONGITUDE 80° 45' 00"

NORTH

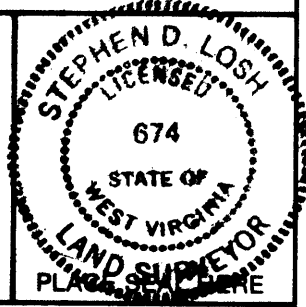
WELL REFERENCES:
 N15°W, 116' TO 10" TREE HICKORY
 N06°W, 100' TO 5" WHITE OAK

PETROVICH

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP KNOS 1345' N
AT 1137'

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 (SIGNED) [Signature]
 R.P.E. _____ L.L.S. NO. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JUNE 6, 19 89
 OPERATOR'S WELL NO. NICHOLS NO. 2
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1000' WATER SHED SANDY RUN
 DISTRICT MARSHY COUNTY TYLER
 QUADRANGLE WEST UNION 7.5 WU 9L
 SURFACE OWNER EDWARD NICHOLS ACREAGE 126.
 OIL & GAS ROYALTY OWNER S. C. NICHOLS HEIRS LEASE ACREAGE 126.
 LEASE NO. _____

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 _____ NOV 17 1995
 TARGET FORMATION SEVEN ESTIMATED DEPTH 5300'
 WELL OPERATOR STONER GAS CO. DESIGNATED AGENT JESSE A. SHELL
 ADDRESS P. O. BOXER R ADDRESS P. O. BOXER R
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

FORM WW-6

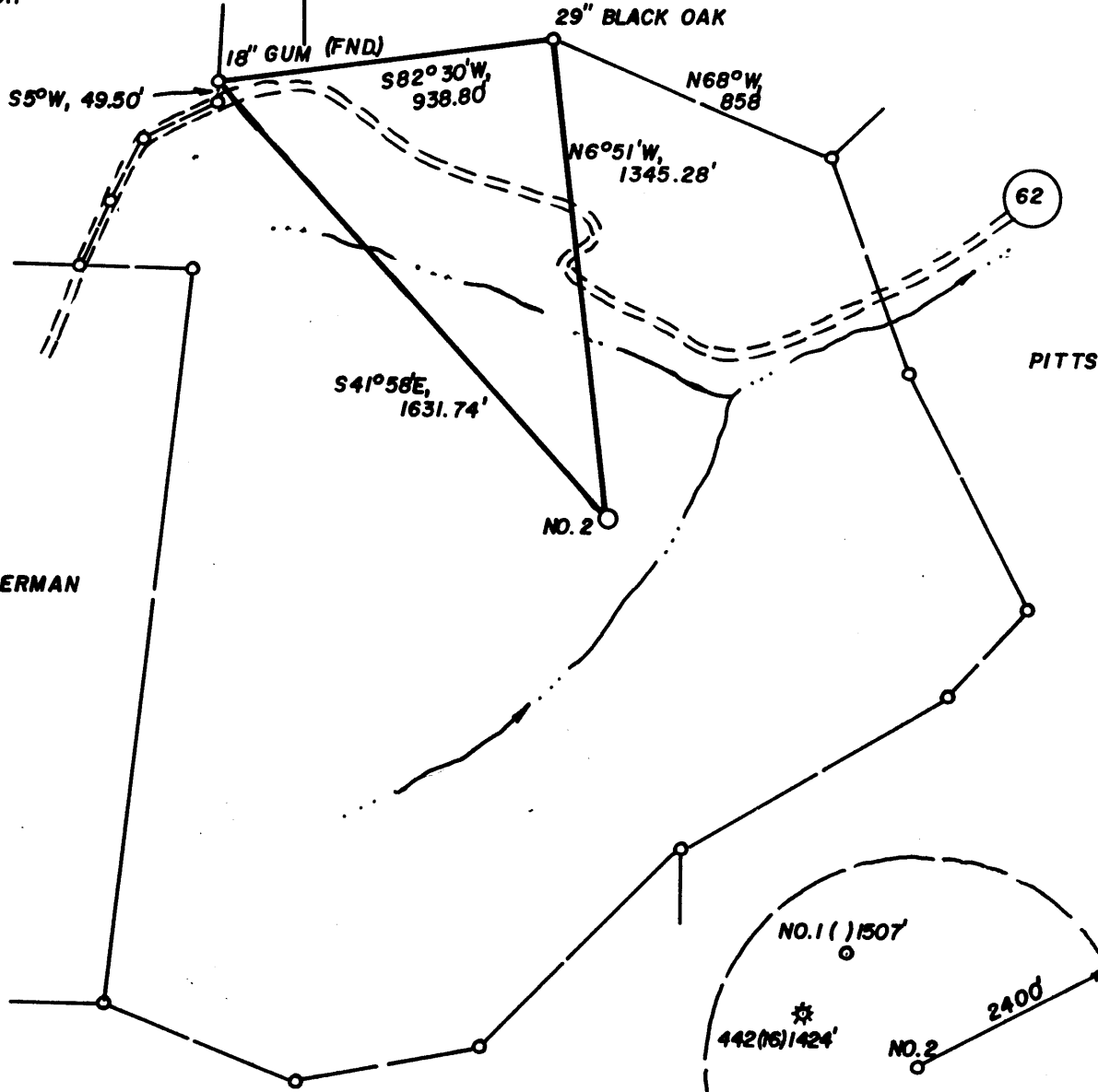
COUNTY NAME
PERMIT

Jamie 7/3/90
 11 5/20/92
 ASH

LATITUDE 39° 22' 30"

NORTH

LONGITUDE 80° 45' 00"



WELL REFERENCES:
 N15°W, 116' TO 10" TWIN HICKORY
 N56°W, 100' TO 5" WHITE OAK

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP KNOB 1345' N AT 1137'

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 (SIGNED) Stephen D. Losh
 R.P.E. _____ I.L.S. NO. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JUNE 6, 19 89
 OPERATOR'S WELL NO. NICHOLS NO. 2
 API WELL NO. _____

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

LOCATION: ELEVATION 1000' WATER SHED SANDY RUN
 DISTRICT McELROY 5 COUNTY TYLER
 QUADRANGLE WEST, UNION 7.5' 15 80

SURFACE OWNER RICHARD NICHOLS ACREAGE 126.
 OIL & GAS ROYALTY OWNER S. C. NICHOLS HEIRS LEASE ACREAGE 126.
 LEASE NO. _____

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 BENSON ESTIMATED DEPTH 5300'
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT JESSE A. SHELL
 ADDRESS P. O. DRAWER R 847 ADDRESS P. O. DRAWER R
 JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

JUN 1 1992

COUNTY NAME Tyler
 PERMIT 1406

H.T. HALL 48673 FORM WW-6

Jamie 7/3/90

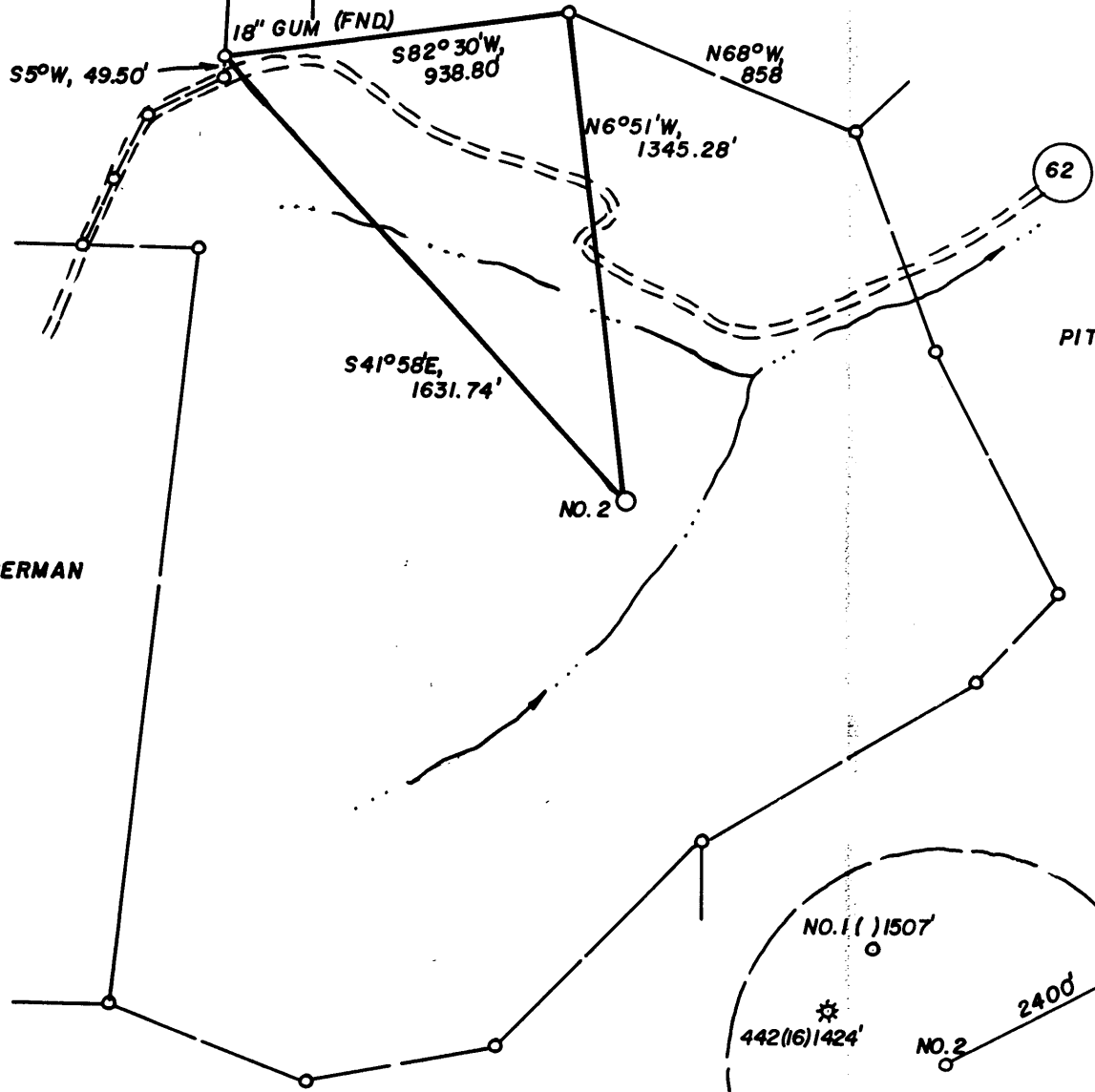
0.285
2.000

PITTS

ASH

7.5'

29" BLACK OAK



NORTH

LONGITUDE 80° 45' 00"

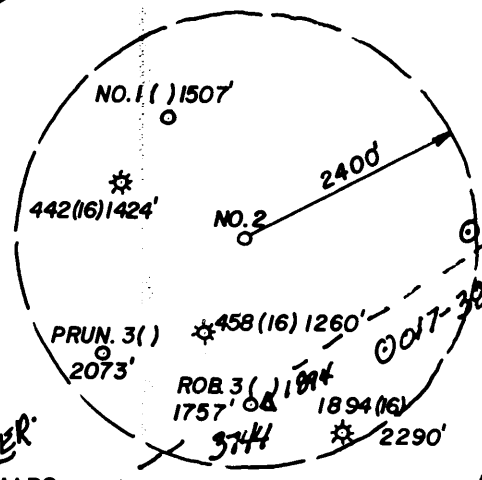
WELL REFERENCES:

N15°W, 116' TO 10" TWIN HICKORY
N56°W, 100' TO 5" WHITE OAK

PETROVICH

3.16 S
2.00 W
EC

TYLER



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

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 DRAWING NO. _____
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 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION TOP KNOB 1345' N AT 1137'

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 (SIGNED) _____
 R.P.E. _____ L.L.S. NO. 674
STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE JUNE 6, 19 89
 OPERATOR'S WELL NO. NICHOLS NO. 2
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1000' WATERSHED SANDY RUN
 DISTRICT McELROY 5 COUNTY TYLER
 QUADRANGLE WEST UNION 7.5' +15' EC

SURFACE OWNER RICHARD NICHOLS ACREAGE 126.
 OIL & GAS ROYALTY OWNER S. C. NICHOLS HEIRS LEASE ACREAGE 126.

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

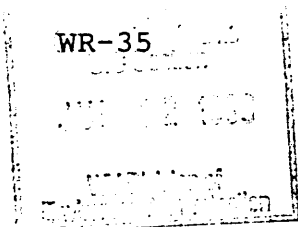
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BENSON ESTIMATED DEPTH 5300'
 WELL OPERATOR STONEWALL GAS CO. DESIGNATED AGENT JESSE A. SHELL
 ADDRESS P. O. DRAWER R ADDRESS P. O. DRAWER R
JANE LEW, WV 26378-0080 JANE LEW, WV 26378-0080

JUL 20 1990

6-6 wilbur (092)

FORM WW-6 H.T. HALL 48673

COUNTY NAME PERMIT



04-Nov-98
API # 47- 95-01406 W

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

Reviewed [Signature]

Well Operator's Report of Well Work

Farm name: NICHOLS, RICHARD J. Operator Well No.: NICHOLS 2 414 S

LOCATION: Elevation: 1,000.00 Quadrangle: WESTON

District: MCELROY County: TYLER
Latitude: 1565 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 10640 Feet West of 80 Deg. 45 Min. Sec.

Company: DOMINION APPALACHIAN DEVE
P. O. BOX 1248
JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: MIKE UNDERWOOD
Permit Issued: 05/28/92
Well work Commenced: 5/22/98
Well work Completed: 5/22/98
Verbal Plugging
Permission granted on: _____
Rotary _____ Cable _____ Rig
Total Depth (feet) _____
Fresh water depths (ft) _____
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
* No change - see original WR-35			
Keener was completed for storage observation			

OPEN FLOW DATA

Producing formation: Keener Pay zone depth (ft) 1934-1952
 Gas: Initial open flow 440 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1704 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 7 days ~~Hours~~
 Static rock Pressure 205 psig (surface pressure) after 7 days ~~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.

Larry J. Cavallo

For: DOMINION APPALACHIAN DEVELOPMENT, INC.

By: Larry J. Cavallo; Manager of Engineering
Date: 7/7/99

JUL 19 1999

TYL 1406 W

ONES	STAGE(S)	FRAC	DATE	5-22-98
	PERFS	HOLES	BBL	BP
KEENER	1934-1952	72	70 Quality Foam 30,000# Sand	2020#
* No change - see original Wr-35				

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
-----------	-------	-----------	-----	--------	---------

RECEIVED

28-May-92
API # 47- 95-01406 W

OFFICE OF OIL AND GAS State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

JUL 07 1994

Well Operator's Report of Well Work

WV Division of Environmental Protection
Farm name: NICHOLS, RICHARD J

Operator Well No.: NICHOLS 2 414 S

LOCATION: Elevation: 1000.00 Quadrangle: WEST UNION

District: MCELROY County: TYLER
Latitude: 1565 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 10640 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: STONEWALL GAS COMPANY
909 E. MAIN ST. P.O. BOX 1575
RICHMOND, VA 23213-0000

Agent: JESSE A. SHELL

Inspector: MIKE UNDERWOOD
Permit Issued: 05/28/92
Well work Commenced: 07/08/92
Well work Completed: 07/08/92
Verbal Plugging
Permission granted on: _____
Rotary Cable Rig
Total Depth (feet) _____
Fresh water depths (ft) _____

Salt water depths (ft) _____

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
	REWORK		

OPEN FLOW DATA

Producing formation KEENER Pay zone depth (ft) 1934
Gas: Initial open flow 730 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 60 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 295 psig (surface pressure) after 168 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.

For: STONEWALL GAS COMPANY

By: *[Signature]*
Date: JULY 5, 1994

RAY M. FREAR, JR.
PETROLEUM ENGINEER

ZONES	PERFS	HOLES	TREATMENT	BREAKDOWN	ISIP
KEENER	1934-1952	72	750 GALS 15% FE ACID	2200	600

13596

RECEIVED
 SEP 21 1990
 DEPT. OF ENERGY

16-Jul-90
 API # 47- 95-01406

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

Well Operator's Report of Well Work

Farm name: RICHARD J. NICHOLS Operator Well No.: NICHOLS 2 414-S

LOCATION: Elevation: 1000.00 Quadrangle: WEST UNION

District: MCELROY County: TYLER
 Latitude: 1565 Feet South of 39 Deg. 22Min. 30 Sec.
 Longitude 10640 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: STONEWALL GAS COMPANY
 909 E. MAIN ST. P.O. BOX 1575
 RICHMOND, VA 23219-1575

Agent: JESSE A. SHELL

Inspector: GLEN P. ROBINSON
 Permit Issued: 07/16/90
 Well work Commenced: 08-07-90
 Well work Completed: 08-13-90
 Verbal Plugging
 Permission granted on:
 Rotary X Cable _____ Rig
 Total Depth (feet) 5125
 Fresh water depths (ft) 50
 Salt water depths (ft) 474

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	127	127	73 SK
8 5/8	1258	1258	280 SK
4 1/2	5090	5090	710 SKS

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

OPEN FLOW DATA

Producing formation BENSON Pay zone depth (ft) 4940
 Gas: Initial open flow * _____ MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1555 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 1 HR Hours
 Static rock Pressure 1600 psig (surface pressure) after 168 Hours

Second producing formation RILEY Pay zone depth (ft) 4505
 Gas: Initial open flow * _____ MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 1555 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 1 HR Hours
 Static rock Pressure 1600 psig (surface pressure) after 168 Hours

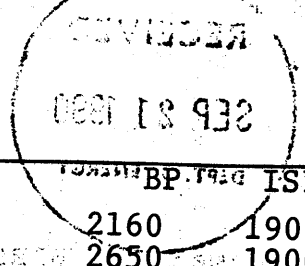
*UNABLE TO DETERMINE DUE TO LARGE OPEN FLOW FROM INJUN

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: STONEWALL GAS COMPANY

By: [Signature] PETROLEUM ENGINEER
 Date: SEPTEMBER 10, 1990

OCT 1 1990



STAGE	2	FRAC	WATER	DATE	08-28-90		
ZONES	PERFS	HOLES		BBL	BP	ISIP	
BENSON	4940-4944	16		600	2160	1900	
RILEY	4505-4511	18		700	2650	1900	
FORMATION	COLOR	HARD/SOFT		TOP	BOTTOM	REMARKS	
KB-GL	BROWN	SOFT		0	10	GAS CK @ 1893	
SOIL & RR	BROWN	SOFT		10	52	NO SHOW	
SAND	TAN	HARD		52	71		
RR	RED	HARD		71	88	GAS CK @ 1956 20/2	
SAND	TAN	SOFT		88	91	2" W/M	
RR	RED	SOFT		91	111		
SAND	TAN	SOFT		111	136	GAS CK @ 2049 22/1	
SHALE	GRAY	HARD		136	141	2" W/M	
SAND & SHALE	GRAY	HARD		141	504		
RR & SHALE	GRAY	HARD		504	534	GAS CK @ 2110 22/	
SAND & SHALE	BROWN	SOFT		534	723	2" W/M 730 MCF	
SAND & SHALE, RR	GRAY	SOFT		723	793		
RR	RED	HARD		793	890	GAS CK 2645 20/10	
SHALE	GRAY	SOFT		890	936	2" W/M	
RR & SHALE	GRAY	SOFT		936	1017		
COAL	BLACK	SOFT		1017	1020	GAS CK 3279 22/10	
SAND & SHALE	GRAY	HARD		1020	1065	2" W/M	
SAND	TAN	HARD		1065	1115		
SAND & SHALE	GRAY	HARD		1115	1145	GAS CK 4796 16/10	
SAND	TAN	SOFT		1145	1180	2" W/M	
SAND & SHALE	GRAY	SOFT		1180	1833		
BIG LIME	BROWN	SOFT		1833	1937	GAS CK 5017 18/10	
INJUN SAND	BROWN	SOFT		1937	2078	2" W/M 660 MCF	
SAND & SHALE	BROWN	HARD		2078	2621		
GORDON	GRAY	HARD		2621	2681		
SAND & SHALE	GRAY	SOFT		2681	4485		
RILEY	BROWN	SOFT		4485	4555		
SAND & SHALE	GRAY	SOFT		4555	4925		
BENSON	GRAY	SOFT		4925	4950		
SAND & SHALE	GRAY	HARD		4950	5125		
TD				5125			

10852

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

Issued 7/13/95
Expires 11/13/97
670

095-1406-W

21278

Well Operator: ⁸⁴⁷ STONEWALL GAS COMPANY 4785° (5)

Operator's Well Number: NICHOLS #2 (414-S) 3) Elevation: 1000

Well type: (a) Oil ___ / or Gas X /

(b) If Gas: Production X / Underground Storage ___ /
Deep ___ / Shallow X /

5) Proposed Target Formation(s): ³⁵⁵ Keener

6) Proposed Total Depth: ¹⁹³² feet

7) Approximate fresh water strata depths: _____

8) Approximate salt water depths: _____

9) Approximate coal seam depths: _____

10) Does land contain coal seams tributary to active mine? Yes ___ / No ___ /

11) Proposed Well Work: PERF KEENER 1934-1952' WITH 72 HOLES. CLEAN PERFS WITH 750 GALS OF 15% HCL. RUN 2 3/8" TUBING AND PACKER TO 4450' TO ISOLATE UPPER AND LOWER ZONES. KEENER TO BE USED BY EQUITRANS IN STORAGE FIELD.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor					127'	73 SKS
Fresh Water						
Coal					1258'	280 SKS
Intermediate						
Production					5090'	710 SKS
Tubing	2 3/8	J55	4.6	0	4475	0
Liners						

Starting from Well Permits

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 Agent
(Type)

103244

13

1) Date: OCTOBER 17, 1995
2) Operator's well number
NICHOLS #2 (414-S)
3) API Well No: 47 - 095 - 1406-W
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
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 RICHARD J. NICHOLS
Address 856 CHESTER RD.
CHARLESTON, WV 25302
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector MIKE UNDERWOOD
Address RT 2 BOX 135
SALEM, WV 26426
Telephone (304)-782-1043

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name RICHARD J. NICHOLS
Address 856 CHESTER RD. CHARLESTON, WV
RICKY DEAN WILCOX, 378 KNOLLWOOD DR.
Name CHARLESTON, WV 25302
Address _____
(c) Coal Lessee with Declaration
Name N/A
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
X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

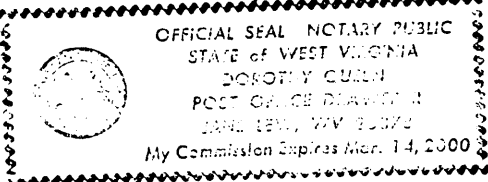
I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

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

I have read and understand Chapter 22-6 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 STONEWALL GAS COMPANY
By: John T. Haskins JOHN HASKINS
Its: VICE PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378
Telephone 304-884-7881

Subscribed and sworn before me this 19th day of October, 1995

Dorothy Green Notary Public
My commission expires Mar. 14, 2000

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

Expires 5/28/94

- 1) Well Operator: STONEWALL GAS COMPANY 47850 (5) 670
- 2) Operator's Well Number: NICHOLS #2 (414-S) 3) Elevation: 1000
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Keener
- 6) Proposed Total Depth: 1934-1952 feet Original 105125
- 7) Approximate fresh water strata depths: 50 Taken
- 8) Approximate salt water depths: 474 from
- 9) Approximate coal seam depths: None Reported Well Record
- 10) Does land contain coal seams tributary to active mine? Yes / No

RECEIVED
WV Division of
Environmental Protection
APR 17 1992
Permitting
Office of Oil & Gas

11) Proposed Well Work: PERF KEENER 1934-1952' WITH 72 HOLES. CLEAN PERFS WITH 750 GALS OF 15% HCL. RUN 2 3/8" TUBING AND PACKER TO 4450' TO ISOLATE UPPER AND LOWER ZONES. KEENER TO BE USED BY EQUITRANS IN STORAGE FIELD.
12) CASING AND TUBING PROGRAM

See attached proposal on work done.

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)	
Conductor							
Fresh Water	11 3/4"		20#	127'	127'	73 SKS	<i>Exhaustive from Well Record</i>
Coal							
Intermediate	8 5/8"		20#	1259'	1259"	280 SKS	
Production	4 1/2"		10.5	5090'	5090'	710 SKB	
Tubing	2 3/8"	J55	4.6	0	4475	0	
Liners							

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

7632
16
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket CD Agent
(Type)

- 1) Date: APRIL 9, 1992
- 2) Operator's well number
NICHOLS #2 (414-S)
- 3) API Well No: 47 - 095 - 1406-REWORK
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

RECEIVED
WV Division of
Environmental Protection
APR 17 92
Permitting
Office of Oil & Gas

- 4) Surface Owner(s) to be served:
 - (a) Name RICHARD J. NICHOLS
Address 856 CHESTER RD
CHARLESTON, WV 25300
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector MIKE UNDERWOOD
Address RT 2 BOX 135
SALEM, WV 26426
Telephone (304)- 782-1043

- 5) (a) Coal Operator:
 - Name N/A
Address _____
 - (b) Coal Owner(s) with Declaration
Name RICHARD J. NICHOLS
Address 856 CHESTER RD
CHARLESTON, WV 25300
Name RICKY DEAN WILCOX
Address 378 KNOLLWOOD DRIVE
CHARLESTON, WV 25300
 - (c) Coal Lessee with Declaration
Name N/A
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
 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 STONEWALL GAS COMPANY
By: [Signature]
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378
Telephone 304-884-7881

Subscribed and sworn before me this 9TH day of SEPTEMBER, 1992

[Signature]
My commission expires MARCH 14, 2000



OFFICIAL SEAL NOTARY PUBLIC
STATE of WEST VIRGINIA
DOROTHY QUEEN Notary Public
POST OFFICE DRAWER R
JANE LEW, WV 26378

47-095-1406
 Issued 7/16/90
 Expires Page 7/16/92 of

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

- 1) Well Operator: STONEWALL GAS COMPANY ⁴⁷⁸⁵⁰ ~~47800~~ (5) 670
- 2) Operator's Well Number: NICHOLS #2 (414-S) 3) Elevation: 1000'
- 4) Well type: (a) Oil or Gas
 (b) If Gas: Production Underground Storage
 Deep Shallow
- 5) Proposed Target Formation(s): BENSON 435
- 6) Proposed Total Depth: 5100' feet
- 7) Approximate fresh water strata depths: 60' ^{210'}
- 8) Approximate salt water depths: 200', 310' AND 1200'
- 9) Approximate coal seam depths: 120'
- 10) Does land contain coal seams tributary to active mine? Yes No
- 11) Proposed Well Work: DRILL & STIMULATE *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.)
<i>4 1/2" 11/16/90</i> Conductor	11 3/4"		28#	100'	100 CTS	38 CSR 18-11.3
Fresh Water						
Coal						
Intermediate	8 5/8"		20#	1250'	1250 CTS	38 CSR 18-11.2-2
Production	4 1/2"		10.5#	5050'	5050	38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

JUN 25 90
 Permitting
 Oil and Gas Section

For Division of Oil and Gas Use Only

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

1) Date: JUNE 21, 1990
2) Operator's well number
NICHOLS #2 414-S
3) API Well No: 47 - 095 - 1406
State - County - Permit

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

RECEIVED
Division of Energy
JUN 25 90
Permitting
Oil and Gas Section

4) Surface Owner(s) to be served:
(a) Name RICHARD J. NICHOLS
Address 856 CHESTER RD
CHARLESTON, WV 25302
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector GLEN P. ROBINSON
Address RT 1 #6 MT PLEASANT EST
MINERALWELLS, WV 26150
Telephone (304)- 489-2736

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name RICHARD J. NICHOLS
Address 856 CHESTER RD
CHARLESTON, WV 25302
Name RICKY DEAN WILCOX ET AL
Address 378 KNOLLWOOD DR
CHARLESTON, WV 25302
(c) Coal Lessee with Declaration
Name N/A
Address _____

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

Well Operator STONEWALL GAS COMPANY
By: *Beir A. Hardy*
Its: PRESIDENT
Address PO DRAWER R
JANE LEW, WV 26378
Telephone 304-884-7881

Subscribed and sworn before me this 21ST day of JUNE, 19 90

Dorothy Quinn Notary Public
My commission expires MARCH 14, 2000