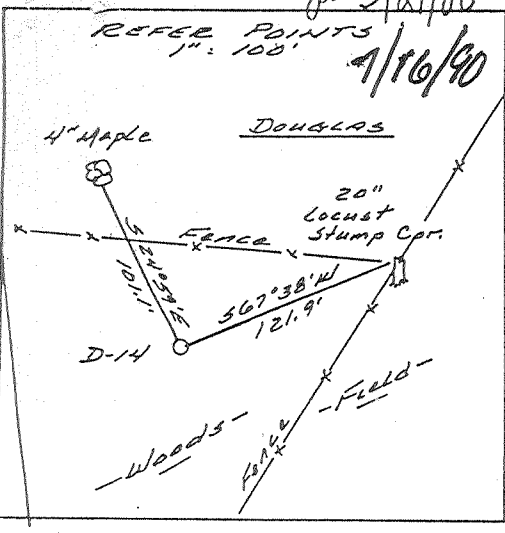


88 3/21/88
1/16/90

9375'

LATITUDE 39°12'30"

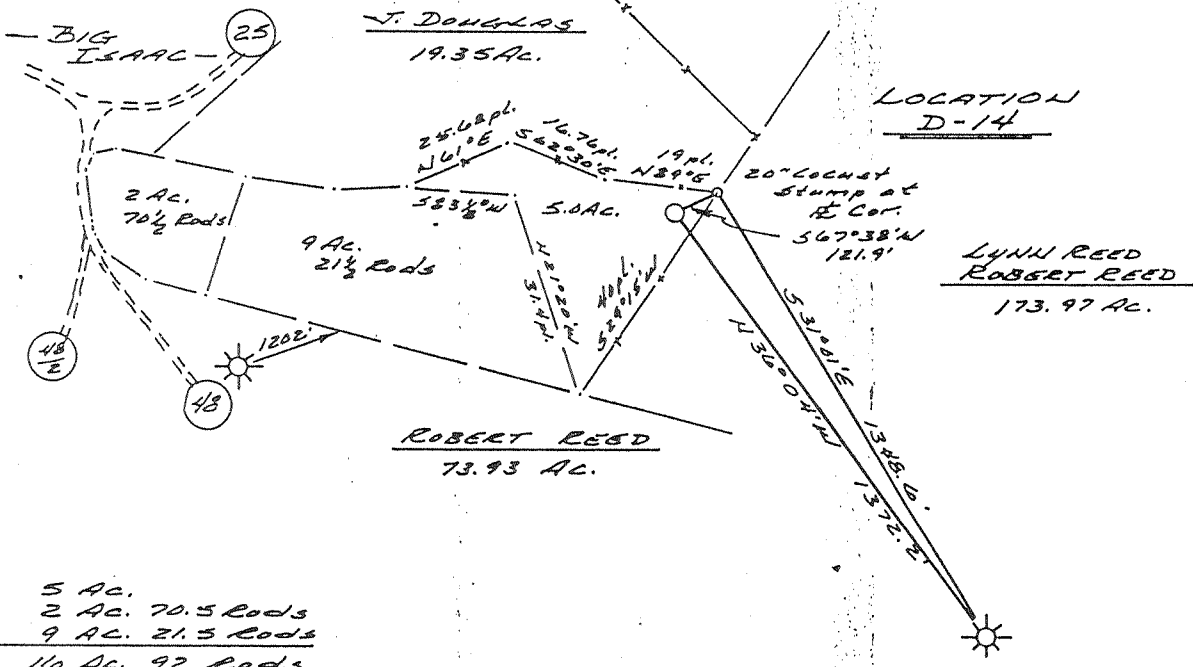
LONGITUDE 80°53'10"



Topo 7.5'

0.559
1.78W

NORTH



5 Ac.
2 Ac. 70.5 Rods
9 Ac. 21.5 Rods
16 Ac. 92 Rods

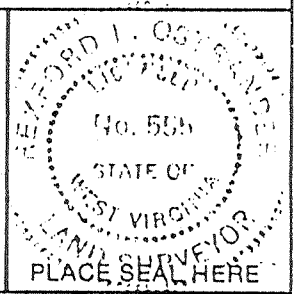
CLAUDE WILLIAMS
DB 112 19.53

3435
178W
Vadis NE

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

FILE NO. 859.01
DRAWING NO. 88-1
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION BM-985' at Big Isaac.

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) Raymond J. Ostermiller
R.P.E. _____ L.L.S. 555
Buckhannon, WV



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE 26 FEBRUARY, 19 88
OPERATOR'S WELL NO. D-14
API WELL NO. _____

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 1345' WATERSHED Laurel Run
DISTRICT Greenbrier 4 COUNTY Doddridge
QUADRANGLE Big Isaac
SURFACE OWNER Claude Williams ACREAGE 16 Ac. 92 Rods
OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE 16 Ac. 92 Rods

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 ALBANY - BENSAL ESTIMATED DEPTH _____
WELL OPERATOR SHELDON & ASSOCIATES, INC. DESIGNATED AGENT DAVID J. SHELDON
ADDRESS 1400 JOHNSON AVE SUITE - B ADDRESS - SAME -
BRIDGEPORT, WV 26330 1045

JUL 20 1990

OWWO 6-6 Big Isaac (147)

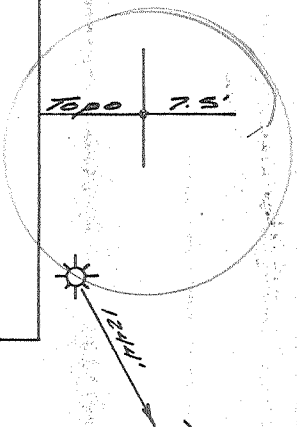
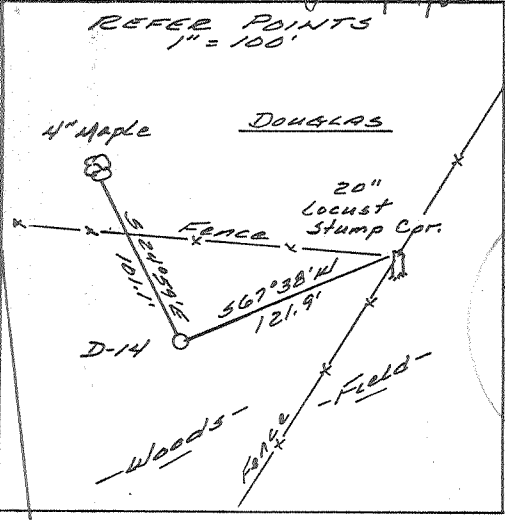
COUNTY NAME PERMIT

88 3/2/88

9,375'

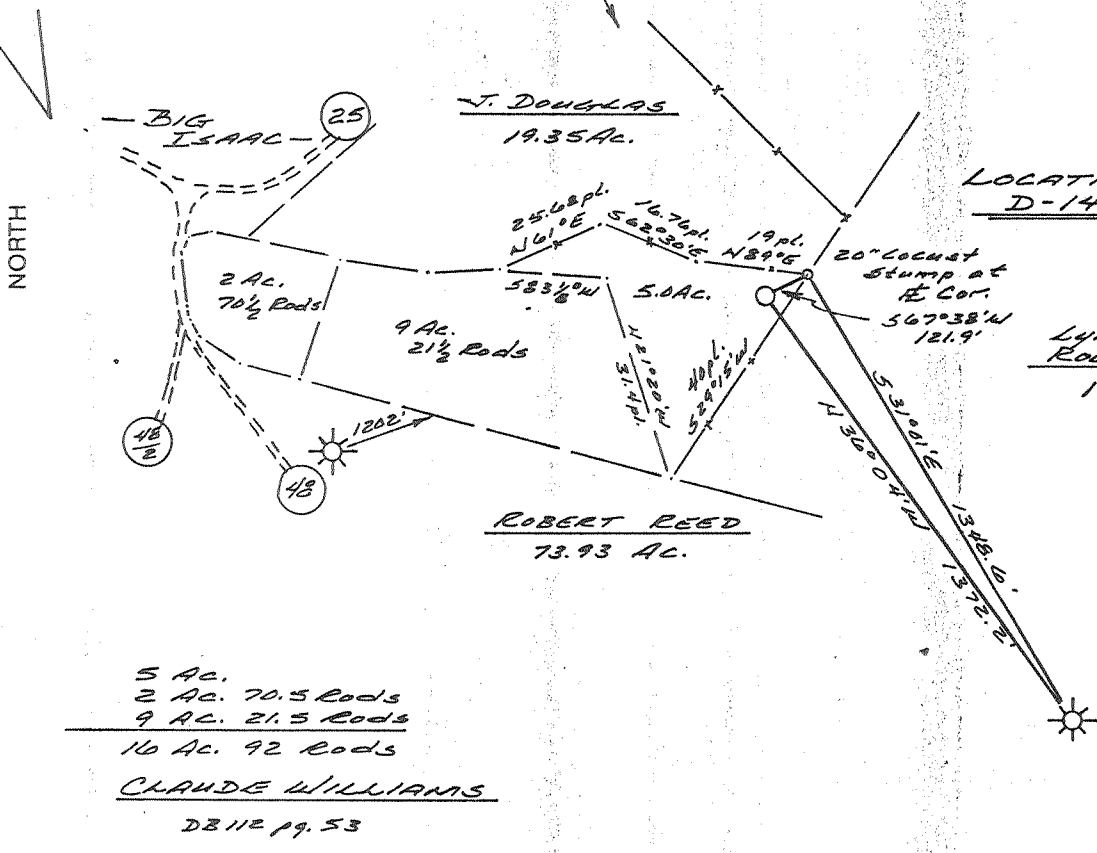
LATITUDE 39°12'30"

LONGITUDE 80°03'00"



0565
176W

3.445
1.76W



LYNN REED
ROBERT REED
173.97 AC.

J. DOUGLAS
19.35 AC.

ROBERT REED
73.93 AC.

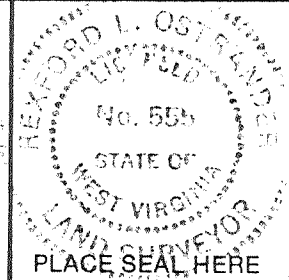
5 AC.
2 AC. 70.5 Rods
9 AC. 21.5 Rods
10 AC. 92 Rods

CLAUDE WILLIAMS
DB 112 pg. 53

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

FILE NO. 859.01
 DRAWING NO. 88-1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION BM-985' at Big Isaac.

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) Rayford L. Ostrander
 R.P.E. _____ L.L.S. 555
Buckhannon, WV



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE 26 FEBRUARY, 19 88
 OPERATOR'S WELL NO. D-14
 API WELL NO. _____

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1345' WATER SHED Laurel Run
 DISTRICT Greenbrier 4 COUNTY Doddridge
 QUADRANGLE Big Isaac 252 123 Madison
 SURFACE OWNER Claude Williams ACREAGE 10 Ac. 92 Rods
 OIL & GAS ROYALTY OWNER _____ LEASE ACREAGE 10 Ac. 92 Rods

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 ALEXANDER - BENSON ESTIMATED DEPTH _____
 WELL OPERATOR SHELDON & ASSOCIATES, INC. DESIGNATED AGENT DAVID T. SHELDON
 ADDRESS 1400 JOHNSON AVE SUITE - B ADDRESS _____
BRIDGEPORT, WV 26330 1045

MAR 25 1988

6-6 Big Isaac (147)

FORM WW-6
H.T. HALL 48673

COUNTY NAME
PERMIT

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

Elks - perf. 5538-5585 12 .39 holes
 frac. using - 110 bbls. water, 5000# 80-100, 15,000# 20-40 sand,
 500 acid & 390,000 s.c.f. N₂

Alex - perf. 5358-5392 13 .39 holes
 frac. using - 183 bbls. water, 10,000# 50-100, 30,000# 20-40 sand,
 500 gals. acid & 498,000 s.c.f. N₂

Benson - perf. 5000-5016 17 .39 holes
 frac. using - 205 bbls Water, 10,000# 80-100, 43,000# 20-40 sand,
 500 gals. acid & 543,000 s.c.f. N₂

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/Shale	Red	Soft	0	77	
Sand	White	Hard	77	92	
Red Rock	Red	Soft	92	112	
Shale	Brown	Soft	112	222	H ₂ O 33' & 1/2" 435'
Sand/Shale	Gray/White	Med.	222	1523	
Sand/Shale	Gray		1523	2080	
Big Lime	Gray	Med.	2080	2154	
Big Injun	Gray	Med.	2154	2235	
Shale/Sand	Gray	Soft	2235	2743	
Gorden/ Gorden Stray	Gray	Med.	2743	2828	
Shale	Gray	Soft	2828	3450	
Speechley	Gray	Soft	3450	3600	
Balltown	Gray	Soft	3600	3970	
Shale	Gray	Soft	3970	4994	
Benson Sand	Brown	Soft	4994	5025	
Shale	Gray	Soft	5025	5208	
Leopold Sand	Gray	Soft	5208	5232	
Shale	Gray	Soft	5232	5346	
Alex Sand	Gray	Soft	5346	5442	
Shale	Gray	Soft	5442	5536	
Elk Sand	Gray	Soft	5536	5588	
Shale	Gray	Soft	5588	5650	
	T.D.			5650	

RECEIVED
 APR 13 1988

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Sheldon and Associates, Inc.

Well Operator

By: *[Signature]*

Date: 4-12-88

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 all encountered in the drilling of a well."
 6774

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

Well Operator's Report of Well Work

Farm name: WILLIAMS, CLAUDE Operator Well No.: HINKLE 10

LOCATION: Elevation: 1345.00 Quadrangle: BIG ISAAC

District: GREENBRIER County: DODDRIDGE
Latitude: 2900 Feet South of 39 Deg. 12Min. 30 Sec.
Longitude 9375 Feet West of 80 Deg. 30 Min. 0 Sec.

RECEIVED
AUG 27 1990
Oil and Gas Section
Permitting

Company: SHELDON & ASSOCIATES, INC
1400 JOHNSON AVE; SUITE E
BRIDGEPORT, WV 26330-0000

Agent: DAVID J. SHELDON

Inspector: MIKE UNDERWOOD
Permit Issued: 07/16/90
Well work Commenced: 07-17-90
Well work Completed: 07-20-90
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5580
Fresh water depths (ft) 33,435
Salt water depths (ft) -0-

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8	1474	1474	330 SKS
4 1/2	5606	5606	535 SKS

Is coal being mined in area (Y/N)? N
Coal Depths (ft): -0-

OPEN FLOW DATA See Original WR-35 04-12-88

Producing formation Balltown, Speechly Pay zone depth (ft) 3572-4006
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 300,000 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 48 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

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:  SHELDON & ASSOCIATES, INC.

By: David J. Sheldon
Date: August 24, 1990

SEP 6 1990

Balltown, Speechly
 Perf 3572-4006 22 holes
 treated using 255 bbls water, 10,000# 80-100 sand, 43,000# 20-40 sand, 1,000 gallons
 acid, 385,000 gallons SCF N2

W E L L L O G

FORMATION	COLOR	DENSITY	TOP FEET	BOTTOM FEET	REMARKS
<p>See Original WR-35 submitted on April 12, 1988 with permit.</p> <p>No changes with upper zones.</p> <p>Re-frac on this well.</p>					

10/15/84
 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."

TO 5650
8581474

017-3635-Frac

Issued 7/16/90
Expires 7/16/92

FORM WW-2B

Page 7 of 12

Line 2110

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

- 1) Well Operator: Sheldon and Associates, Inc. *44670, 14, 252*
- 2) Operator's Well Number: Hinkle #1 -D-14 3) Elevation: 1345
- 4) Well type: (a) Oil or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Speechly, Benson, Alexander, Riley
- 6) Proposed Total Depth: 5,600 feet
- 7) Approximate fresh water strata depths: 25', 560' *652*
- 8) Approximate salt water depths: ~~160'~~ 1588-1632'
- 9) Approximate coal seam depths: 120', 598', 870', 1185', 1225', 1265', 702-705'
1357-1362'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: *Drill & Frac - ~~FRAC~~ UPPER ZONES*
- 12) CASING AND TUBING PROGRAM *BALTOON - SPEECHLY - 5TH - SAND -*

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	113/4	H44		30'		
Fresh Water						
Coal						
Intermediate	85/8"	J55	23#	1440'	1440'	38 CSR 18-11.2.2
Production	41/2	J55	10.5#	5500'	5500'	CTS or as required CSR 18-11. CTS or as required CSR 18-11.
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

RECEIVED
MAR 21 1988

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Fee(s) paid: *6560 2842/19* Well Work Permit *6560* Reclamation Fund *6560* WPCP *6560*
 Plat *6560* WW-9 *6560* WW-2B *6560* Bond *50 Blanket* Agent *6560*

1) Date: July 13, 1990
2) Operator's well number
Hinkle D-14
3) API Well No: 47 - 017 - 3635-FRAC
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 Claude Williams
Address Rt. 3, Box 82
Salem, WVa 26426
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
Name None
Address _____
Name _____
Address _____

6) Inspector Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304)-782-1043

(c) Coal Lessee with Declaration
Name _____
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 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:

- X 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 Sheidon and Associates, Inc.
By: [Signature]
Its: President
Address 1400 Johnson Avenue, Suite E, Blake Center
Bridgeport, West Virginia 26330
Telephone (304) 842-4733

Subscribed and sworn before me this 13th day of July, 1990

Teddy R. Bowers Trudy R. Bowers Notary Public
My commission expires September 27, 1999

Issued 3/21/88
 Expires 3/21/90
 Page 7 of 12

017-3635

FORM WW-2B

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

- 1) Well Operator: ¹⁰⁴⁵ Sheldon and Associates, Inc. 44670, 14, 252
- 2) Operator's Well Number: Hinkle #1 -D-14 3) Elevation: 1345
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): ⁴³⁹ Speechly, Benson, Alexander, Riley
- 6) Proposed Total Depth: 5,600 feet
- 7) Approximate fresh water strata depths: 25; 560' 652'
- 8) Approximate salt water depths: 160' 1588-1632'
- 9) Approximate coal seam depths: 120', 598', 870', 1185', 1225', 1265', 702-705' ^{1357-1362'}
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Well & Frac
- 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	113/4	H44		30'	0	
Fresh Water						
Coal						385SR18-11.2.2
Intermediate	85/8	J55	23#	1440'	1440'	CTS or as required CSR 18-11.2
Production	41/2	J55	10.5#	5500'	5500'	CTS or as required CSR 18-11.2
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

RECEIVED
 MAR 21 1988

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

Fee(s) paid: 7 Well Work Permit 7 Reclamation Fund 7 WPCP
 Plat 7 WW-9 7 WW-2B 7 Bond 50 Blanket 7 Agent
 (Type)

6774

656

RECEIVED
MAR 21 1988

1) Date: March 14th, 1988
2) Operator's well number
Hinkle #1 -D-14
3) API Well No: 47 - 017 - 3635
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

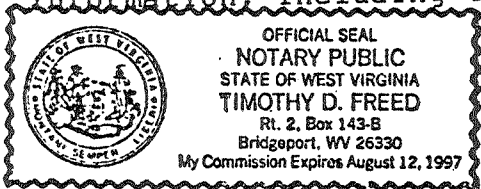
4) Surface Owner(s) to be served:
(a) Name Claude Williams
Address Rt. 1 Big Isaac
Rt. 3 Box 82, Salem WV, 26426
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304)- 782-1043

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name None
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
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 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:
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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 Sheldon and Associates, Inc.
By: [Signature]
Its: President
Address 1400 Johnson Ave., Suite E
Bridgeport, WV 26330
Telephone 304-842-4733

Subscribed and sworn before me this 14th day of March, 19 88

[Signature] Notary Public

My commission expires August 12, 1997