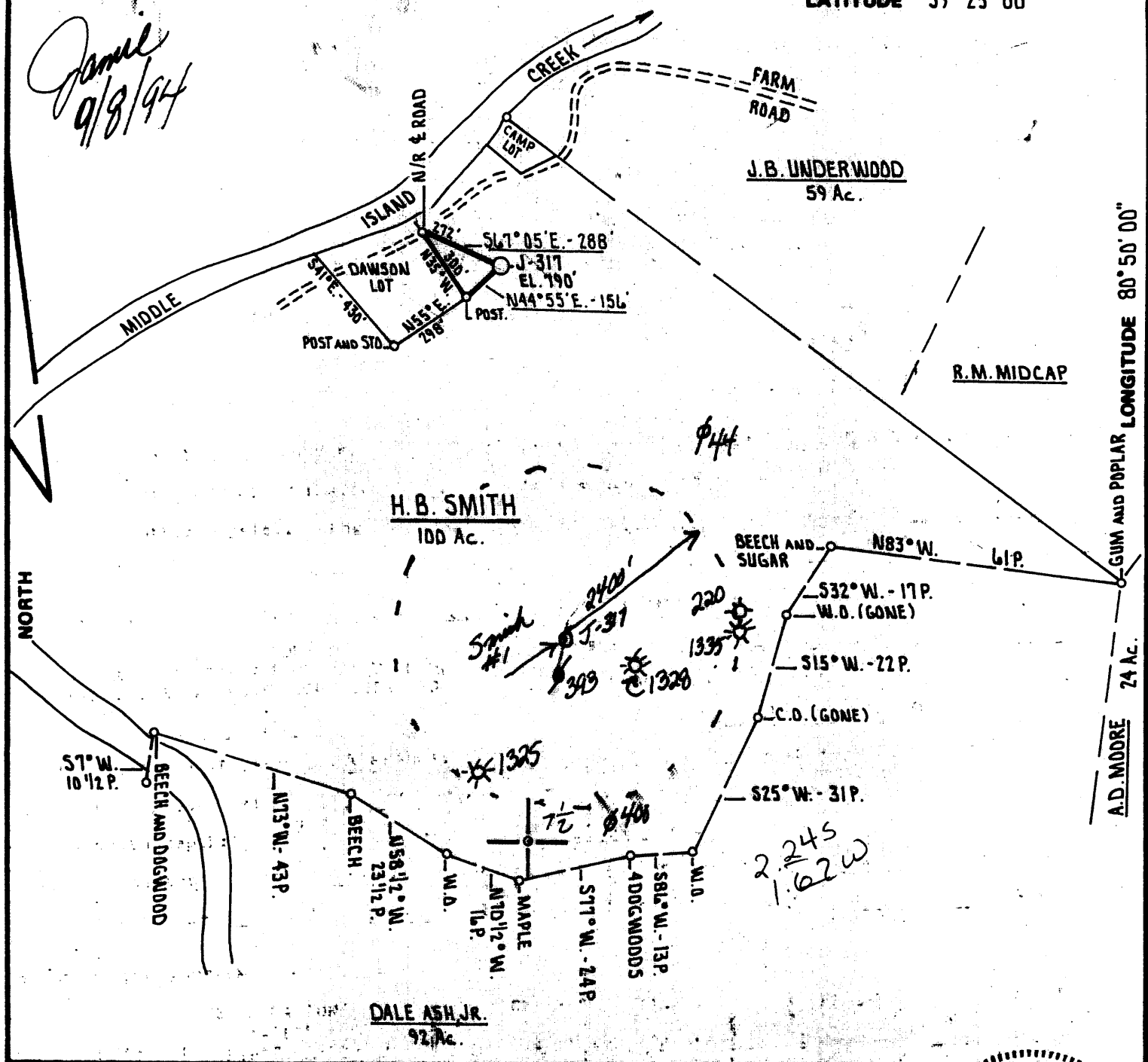


8500'

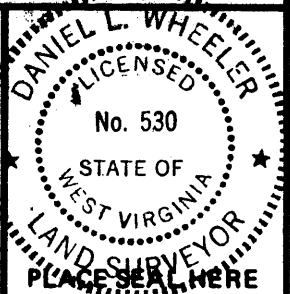
LATITUDE 39° 25' 00"

Daniel
9/8/94



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION B.M. INT. RT. 18 AND RT. 50 ELEVATION 732'

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) *Daniel L. Wheeler*
 R.P.E. _____ L.L.S. 530



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



DATE JUNE 19th 19 80
 OPERATOR'S WELL NO. *Smith #1*
 API WELL NO. _____
 47 - 095 - 0820 - F
 STATE COUNTY PERMIT

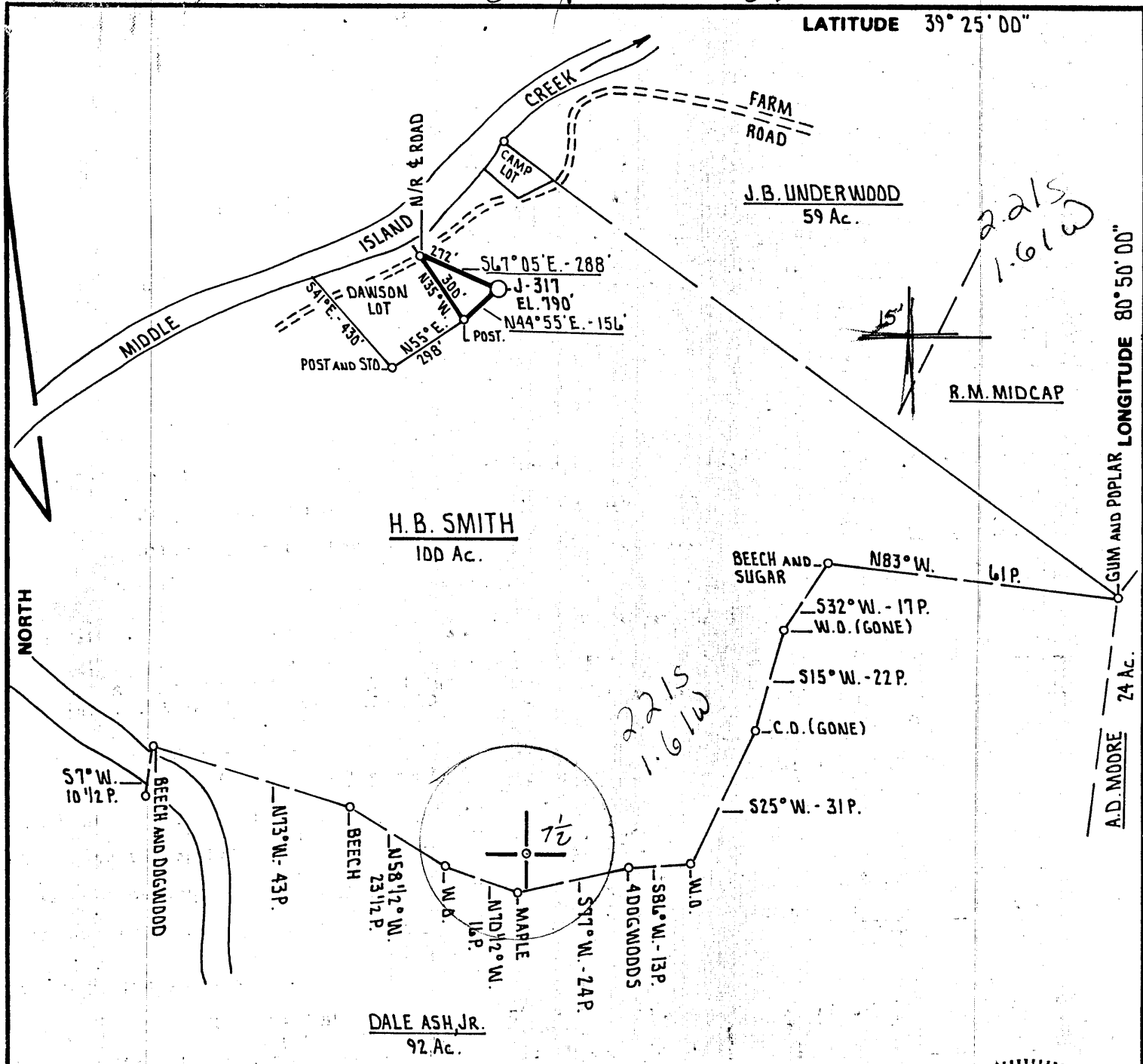
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 790' WATER SHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5 *Shirley WU 10 C*
 SURFACE OWNER KENNETH SINCLAIR ACREAGE _____
 OIL & GAS ROYALTY OWNER H.B. SMITH LEASE ACREAGE 100 Ac.
 LEASE NO. P.S. 29
 PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) *Original formation Simon Kelly New Zone?*
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'
 WELL OPERATOR *W.P.P. Co.* DESIGNATED AGENT George Williams
 ADDRESS *White Box, 499* ADDRESS *Same*

5-24

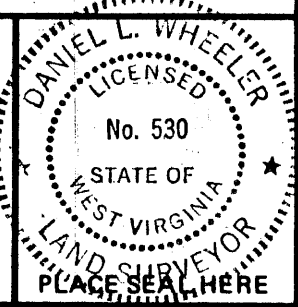
8490

LATITUDE 39° 25' 00"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION B.M. INT. RT. 18 AND RT. 50 ELEVATION 732'

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 (SIGNED) Daniel L. Wheeler
 R.P.E. _____ L.L.S. 530



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 FORM IV-6 (8-78)



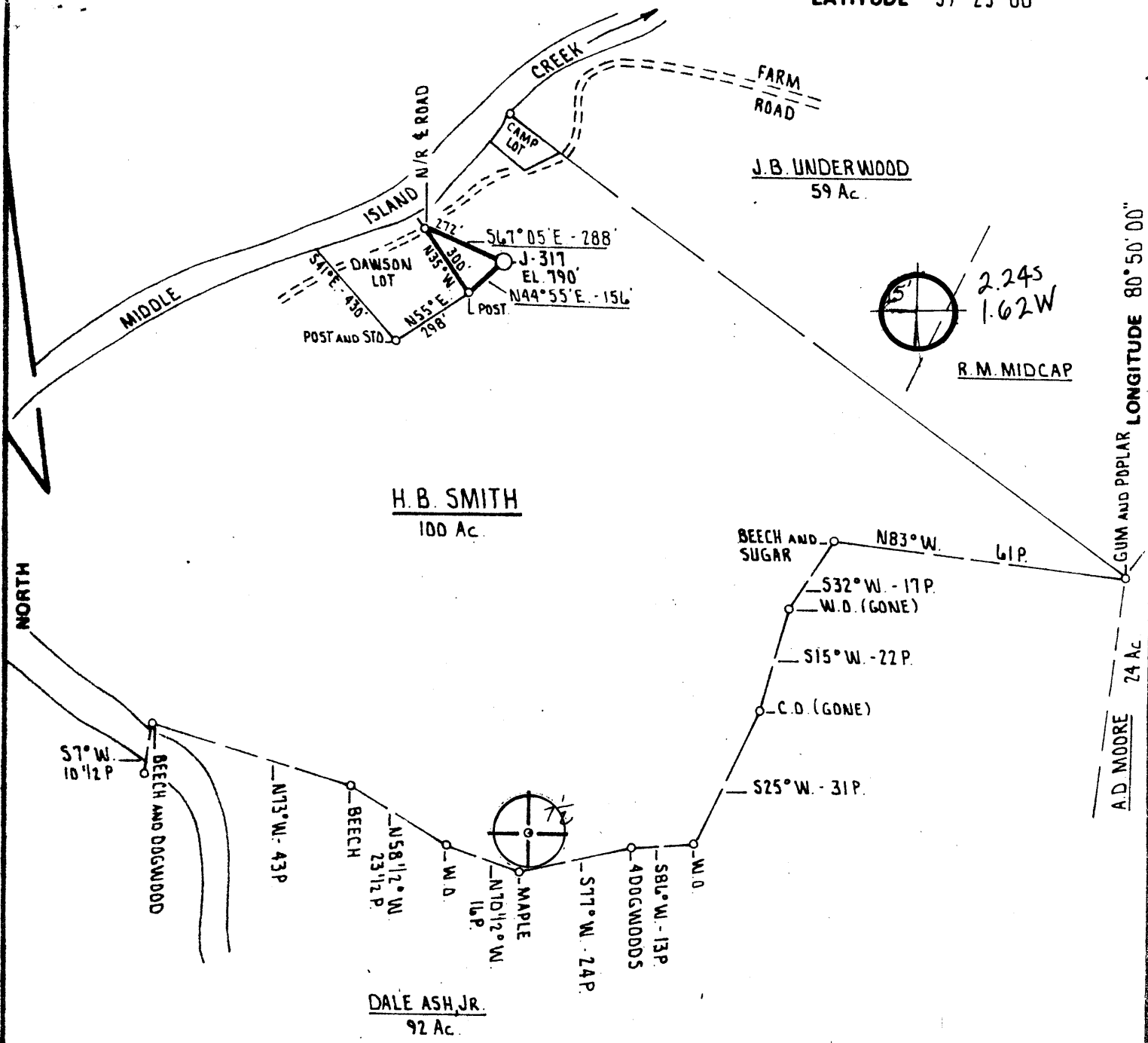
DATE JUNE 19th 19 80
 OPERATOR'S WELL NO. J-317
 API WELL NO. _____
 47 - D95 - 0820-X
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 790' WATER SHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE 1 COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5' WEST Union 15' 607 133 CS
 SURFACE OWNER KENNETH SINCLAIR ACREAGE _____
 OIL & GAS ROYALTY OWNER H.B. SMITH LEASE ACREAGE 100 Ac.
 LEASE NO. P.S. 29
 PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 JAN 12 1987

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'
 WELL OPERATOR Appalachian Energy DESIGNATED AGENT George Williams
 ADDRESS Belington, WV ADDRESS Belington, WV
 397 101

LATITUDE 39° 25' 00"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION B.M. INT. RT. 18 AND RT. 50 ELEVATION 732'

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 (SIGNED) *Daniel L. Wheeler*
 R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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

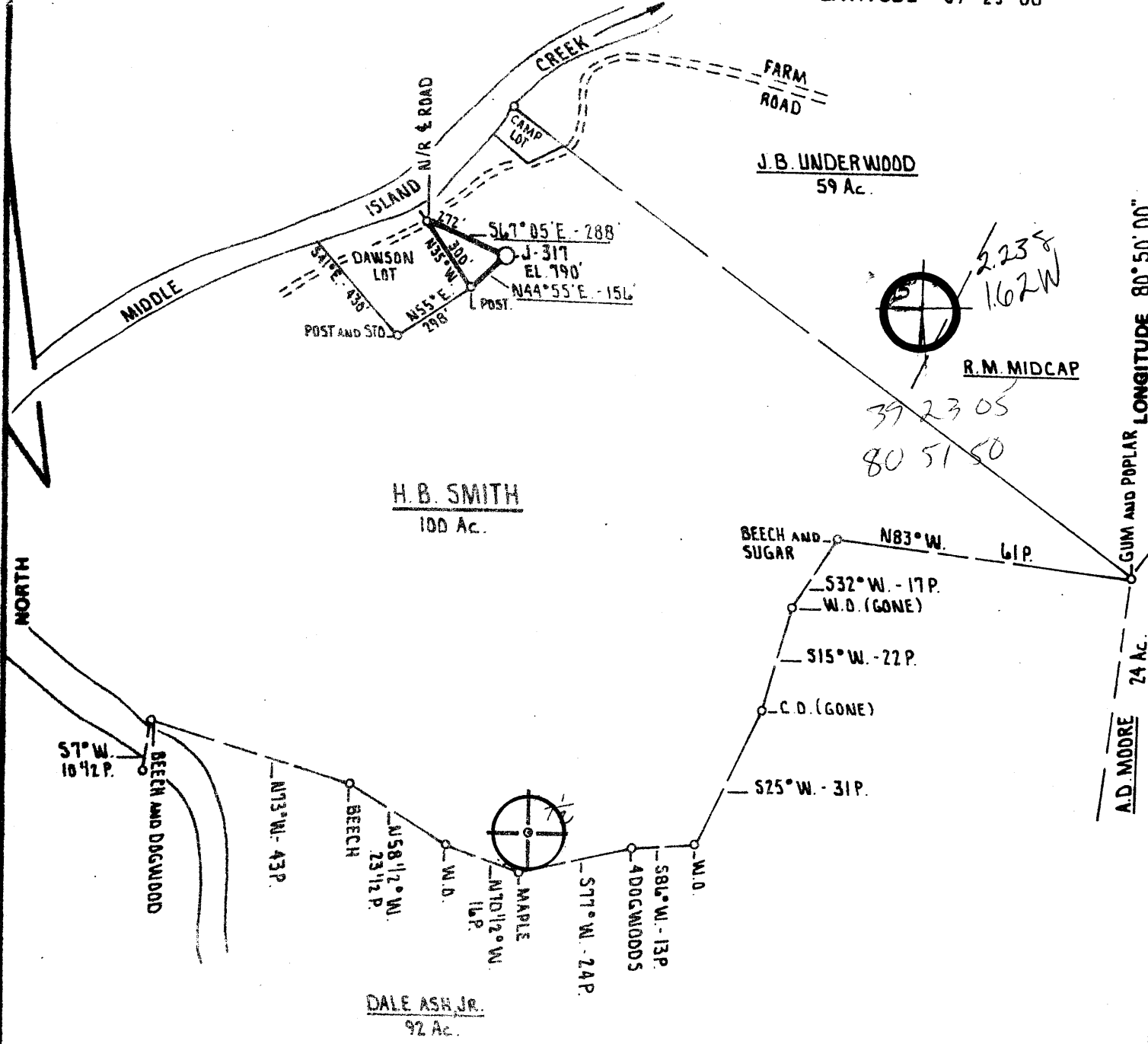


DATE JUNE 19th 19 80
 OPERATOR'S WELL NO. J-317
 API WELL NO. 47 - 095 - 0820 - P
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS.") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION ELEVATION 790' WATER SHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5' WEST UNION 15' C
 SURFACE OWNER KENNETH SINCLAIR ACREAGE _____
 OIL & GAS ROYALTY OWNER H.B. SMITH LEASE ACREAGE 100 Ac.
 LEASE NO. P.5 29
 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 ESTIMATED DEPTH 5400'
 WELL OPERATOR J AND J ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 BUCKHANNON, WEST VIRGINIA 26201
 ADDRESS P.O. BOX 48 BUCKHANNON, WEST VIRGINIA 26201

SEP 16 1980



FILE NO. _____
 DRAWING NO. _____
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 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION B.M. INT. RT. 18 AND RT. 50 ELEVATION 732'

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 (SIGNED) Daniel L. Wheeler
 R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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



DATE JUNE 19th 19 80
 OPERATOR'S WELL NO. J-317
 API WELL NO. _____
47 - D95 - 0820
 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 790' WATER SHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE COUNTY TYLER
 QUADRANGLE SHIRLEY T.S. WEST UNION 15' C
 SURFACE OWNER KENNETH SINCLAIR ACREAGE _____
 OIL & GAS ROYALTY OWNER H.B. SMITH LEASE ACREAGE 100 Ac.
 LEASE NO. P.5. 29
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 5400'
 WELL OPERATOR J. AND J. ENTERPRISES INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 BUCKHANNON, WEST VIRGINIA 26201 ADDRESS P.O. BOX 48 BUCKHANNON, WEST VIRGINIA 26201

NOV 02 1994

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

Permitting
 Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: SINCLAIR, KENNETH

Operator Well No.: SMITH #1

LOCATION: Elevation: 790.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER
 Latitude: 11780 Feet South of 39 Deg. 25Min. 0 Sec.
 Longitude 8500 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: APPALACHIAN ENERGY DEVELOPMENT
 ROUTE 2, BOX 499
 GRAFTON, WV 26354-0499

Agent: GEORGE WILLIAMS

Inspector: MIKE UNDERWOOD
 Permit Issued: 09/09/94
 Well work Commenced: 09/22/94
 Well work Completed: 09/29/94
 Verbal Plugging
 Permission granted on: NA
 Rotary Cable NA Rig
 Total Depth (feet) NA
 Fresh water depths (ft) NA
 Salt water depths (ft) NA

Is coal being mined in area (Y/N)? No
 Coal Depths (ft): _____

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			See Well Record for details
4.5"		4885'	

OPEN FLOW DATA

Producing formation Gordon Sandstone Pay zone depth (ft) 2772-78
 Gas: Initial open flow show MCF/d Oil: Initial open flow -0- Bbl/d
 Final open flow 15 MCF/d Final open flow -0- Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 450 psig (surface pressure) after _____ Hours

Second producing formation Weir Sandy-Shale Pay zone depth (ft) 2006-2191
 Gas: Initial open flow show MCF/d Oil: Initial open flow -0- Bbl/d
 Final open flow 15 MCF/d Final open flow -0- Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure as above 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: George Williams
 APPALACHIAN ENERGY DEVELOPMENT, INC.

By: George Williams
 Date: 9/29/94

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

- 1.) Benson- perf 4739-47 with 14 holes. Frac with 27000# 20/40 sand in 450 bbls total fluid. avg rate-25 bpm, avg pr-2600 psi, ISIP-1600 psi.
- 2.) Riley-perf 4337-68 with 17 holes. Foam frac with 20000# 20/40 sand in 384 bbls 75 quality foam. avg rate-24 bpm, avg pr-3600 psi, ISIP-3800 psi.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Note: No samples obtained.					Cement plugs drilled out and hole re-opened.

(Attach separate sheets as necessary)

Appalachian Energy Dev., Inc.

Well Operator

By: George R. Harrison

Date: 4/8/87

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."
 8779

GEOLOGICAL WELL RECORD DATA

COMPANY NAME: Appalachian Energy Development Company
 WELL NAME: Smith #1
 PERMIT NO.: 47- 95-00820 F

FORMATION	TOP	BOTTOM	NOTES
Big Lime	1670	1740	
Keener Sand	1748	1767	
Big Injun Sand	1770	1863	
Squaw Sand	1870	1888	
Weir Sand	1992	2163	
Berea Sand	2244	2247	
Gantz Sand	2379	2400	
Gordon Stray Sand	2568	2574	
Gordon Sand	2670	2688	

Wide Month Frac Plug @ 2452

Solid Plug @ 3030

Cement Squeeze perforations at 3010.

Cement calculations indicate cement should be squeezed back up to 1700 feet. Work done on September 22, 1994.

Bond Log showed actual cement top at 1710 feet

Former Cement top at 3254 feet.

19690



WR-35

RECEIVED
APR 20 1987

DIVISION OF OIL & GAS
DEPT. OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date 4/8/87
Operator's
Well No. #1
Farm Smith
API No. 47-095-0820 Redr

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 x /)

LOCATION: Elevation: 790 Watershed Middle Island Creek
District: Centerville County Tyler Quadrangle Chirley 7.5

COMPANY Appalachian Energy Dev., Inc.
ADDRESS Rt 2, Box 499 Grafton, Wv 26354
DESIGNATED AGENT George Williams
ADDRESS Rt 2, Box 499 Grafton, Wv 26354
SURFACE OWNER Kenneth Sinclair
ADDRESS Gen Del, Middlebourne, Wv
MINERAL RIGHTS OWNER Harold B. Smith
ADDRESS 2521 Evergreen Indiana, Pa. 15701
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS Middlebourne, Wv
PERMIT ISSUED 1/6/87
DRILLING COMMENCED 3/18/87
DRILLING COMPLETED 3/21/87

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2	4884	4884	325 sxs
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Benson Depth 4739 feet
Depth of completed well 4958 feet Rotary x / Cable Tools _____
Water strata depth: Fresh N/A feet; Salt N/A feet
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA These 2 zones are downhole commingled.

Producing formation Benson Pay zone depth 4739-45 feet
Gas: Initial open flow - Mcf/d Oil: Initial open flow 0 Bbl/d
Combined Final open flow 235 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 1620 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)

Second producing formation Riley Pay zone depth 4337-68 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: 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

APR 27 1987
(Continue on reverse)

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

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Fill			0	15	
Red rock & shale			15	25	
Sand & shale			25	30	
Sand & red rock			30	43	
Shale & red rock			43	50	
Sand & shale			50	75	
Red rock, sand & shale			75	95	
Red rock & sand			95	140	
Shale & red rock			155	175	
Sand & shale			175	190	
Red rock & shale			190	225	
Sand & shale			225	250	
Red rock & sand			250	310	
Sand, shale & red rock			310	325	
Sand & shale			325	355	
Red rock, sand & shale			355	435	Wet @ 235 1/2 to 3/4" stream
Sand & red rock			435	540	
Sand, shale & red rock			540	585	
Sand & shale			585	755	
Coal			755	757	
Sand, shale & red rock			757	790	
Salt sand			790	795	
Shale & sand			795	825	
Red rock, sand & shale			825	870	
Sand			870	890	
Sand & shale			890	1063	
Salt sand			1063	1150	
Sand & shale			1150	1275	
Sand & shale			1275	1285	
Salt sand			1285	1360	
Sand & shale			1360	1605	
Sand			1605	1640	
Little Lime			1640	1655	1 to 1 1/2" stream @ 1610
Shale & sand			1655	1665	
Sand			1665	1680	
Big Lime			1680	1760	
Jun			1760	1820	
Sand & shale			1820	1980	

(Attach separate sheets to complete as necessary)

J & J Enterprises, Inc.
Well Operator
By Peter Battles
Peter Battles

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand & shale			1980	4750	
Benson			4750	4760	
Sand & shale			4760	5010	
Alexander			5010	5080	
Shale			5080	5337	T.D. 5337

RECEIVED
WV Division of
Environmental Protection
SEP 01 1994
Permitting
Office of Oil & Gas

095-0320-2
Issued 09/09/94
Page of
Express 09/09/96

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

1) Well Operator: Appalachian Energy Development, Inc. 2325 (1) 607

Operator's Well Number: 47-095-0820-X 3) Elevation: 790'

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

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

Proposed Target Formation(s): Uphole Zones

Proposed Total Depth: (4825) feet

7) Approximate fresh water strata depths: 235

8) Approximate salt water depths: Unknown

9) Approximate coal seam depths: None

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

11) Proposed Well Work: Frac Uphole Zones

12) Set Temporary Plug Area New Formations Remove Plug Complete with lower formations

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	85/8	Existing			1340	
Fresh Water						
Coal						
Intermediate						
Production	4 1/2	Existing			4800	
Tubing						
Liners						

PACKERS : Kind *Note: Please show all type or hole on fracture completion report. ? there is a question as to what pipe is left in the well.*
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 C O Blanket Agent
(Type)

19690

3449
29

Division of
Environmental Protec. on
SEP 01 1994

Permitting
Office of Oil & Gas

- 1) Date: August 25, 1994
- 2) Operator's well number
Smith #1
- 3) API Well No: 47 - 095 - 0820-X
State - County - Permit

STATE OF WEST VIRGINIA
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 Kenneth Sinclair
Address General Delivery
Middlebourne, WV 26149
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name None
Address _____
 - (b) Coal Owner(s) with Declaration
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
 - Name _____
Address _____
- 6) Inspector Michael Underwood
Address RT 2 Box 135
Salem, WV 26426
Telephone (304)- 782-1043

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:

- xx 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.



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
FLORA E. WILLIAMS
ROUTE 2 BOX 499
GRAFTON, WV 26354
My Commission Expires March 7, 2003

Well Operator Appalachian Energy Dev., Inc.
By: Gary Williams
Its: President
Address Route 2 Box 499
Grafton, WV 26354
Telephone (304) 265-4147

Subscribed and sworn before me this 25th day of August, 1994

Flora E. Williams Notary Public
My commission expires March 7, 2003

WELL OPERATOR'S REPORT OF

[08-78]

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

38

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal / (If "Gas", Production x / Underground storage / Deep / Shallow x /)

LOCATION: Elevation: 790 Watershed: Middle Island Creek District: Centerville County: Tyler Quadrangle: Shirley

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett Address Box 48 Buckhannon, WV 26201

PERMITTED WORK: Drill x / Convert / Drill deeper / Redrill / Fracture or stimulate x Plug off old formation / Perforate new formation / Other physical change in well (specify)

PERMIT ISSUED ON 7-24, 19 80. OIL & GAS INSPECTOR FOR THIS WORK: Name Phillip L. Tracy Address Rt. # 3 Alma, WV 26320

GEOLOGICAL TARGET FORMATION: Alexander Depth 5010-5080 feet Depth of completed well, 5337 feet Rotary x / Cable Tools Water strata depth: Fresh, 1610 feet; salt, 1285-1360 feet. Coal seam depths: 755 -757 Is coal being mined in the area? No Work was commenced 8-16, 19 80, and completed 8-23, 1980

LOGGING AND TUBING PROGRAM

Table with columns: LOGGING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom). Includes a large 'RECEIVED' stamp dated AUG 29 1980 and 'OIL & GAS DIVISION DEPT. OF MINES'.

PERMITS FLOW DATA

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 [If applicable due to multiple completion--] Producing formation Pay zone depth feet flow, Mcf/d Oil: Initial open flow, Bbl/d Final open flow, Mcf/d Final open flow, Bbl/d final tests, hours hours shut in.

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-317

API Well No. 47 - 095 - State County Per

WELL TYPE: Oil / Gas x / (If "Gas", Production x / Underground storage / Deep / Shallow x /) LOCATION: Elevation: 790 Watershed: Middle Island Creek District: Centerville County: Tyler Quadrangle: Shirley

WELL OPERATOR J & J Enterprises, Inc. Address Box 48 Buckhannon, WV 26201

DESIGNATED AGENT H.L. Barnett Address Box 48 Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Harold B. Smith Address 2521 Evergreen Drive Indiana, Pa. 15701

COAL OPERATOR Address

Acres 100

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Kenneth Sinclair Address Alma, W Va 26320

Name Address

Acres 100

Name Address

FIELD SALE (IF MADE) TO: Name Address

COAL LESSEE WITH DECLARATION ON RECORD: Name Address

OIL & GAS INSPECTOR TO BE NOTIFIED Name Phillip L. Tracy Address Rt. # 3 Alma, Wv 26320

RECEIVED JUL 24 1980

OIL & GAS DIVISION DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract x / dated March 20, 1979, to the undersigned well operator from Petroleum Services

[If said deed, lease, or other contract has been recorded:] Recorded on 9/21, 1979, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 221 at page 150. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill deeper / Redrill / Fracture or stimulate x / Plug off old formation / Perforate new formation / Other physical change in well (specify)

---planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any application they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and declaration have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL CORRECTIONS DIRECTLY TO: WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 1018 WASHINGTON STREET EAST CHARLESTON, WV 25301 TELEPHONE: (606) 526-4300

BLANKET BOND

J & J Enterprises, Inc. Well Operator By Peter Battles Geologist

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Company

Address Box 48 Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5400 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 80 feet; salt, 1200 feet.

Approximate coal seam depths: 150 Is coal being mined in the area? Yes / No X

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS. Rows include Conductor, Fresh water, Coal, Intermediate, Production, Tubing, and Liners.

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-3 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-2a from the owner of any water well or dwelling within 200 feet of the proposed well.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-3 filed in accordance with the provisions thereof.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved

for drilling. This permit shall expire if operations have not commenced by 3-29-81

Signature of Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator or coal lessee who has recorded a declaration under Code § 22-4-12b. If the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / has examined this proposed well location. If a mine has existed at this well location, the well location has been added to the mine map. The undersigned hereby waives the requirements of the West Virginia Code and the governing regulations...

By: Its:

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas", Production x / Underground storage ___ / Deep ___ / Shallow x /
LOCATION: Elevation: 790 Watershed: Middle Island Creek
District: Centerville County: Tyler Quadrangle: Shirley

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett
Address Box 48 Address Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

STATE OF WEST VIRGINIA,)
COUNTY OF Upshur) SS:

William J. Legg and H.L. Barnett

I, the undersigned, being first duly sworn according to law, depose and say that they are experienced in the work of plugging and filling oil and gas wells; that they were employed by J & J Enterprises, Inc. as well operator, and participated in the work of plugging and filling the above well; that the work was commenced on 8-16, 1980, and completed on 8-23, 1980, in the following manner:

PERMITTED WORK: Plug and abandon x / Clean out and replug ___ /

PLUGGING MATERIALS

Type of Cement	Other Materials	Depth	Thickness
Class A	Gel	5337-5000	337
		5000-4900	100
Class A	Gel	4900-2600	2300
		2600-2500	100
	Gel	2500-1900	600
Class A		1900-1800	100
Class A		1800-1300	450
	Gel	1350-1300	50
Class A		1300-50	1250
	Gel	50 - SURF.	50

Bridge Plugs Used--Type and Depth

VENT PIPE

MISCELLANEOUS MATERIALS

CASING LOST 8 5/8" 1450'

TYPE OF RIG: Rotary

Owner: Well Op'r x / Contractor ___ /

Rig time: 6 days plus ___ hours

COAL SEAMS (NAMES AND DEPTHS)

DESCRIPTION OF WELL MONUMENT

RECEIVED

AUG 29 1980

OIL & GAS DIVISION
DEPT. OF MINES

William J. Legg (SEAL) x
H.L. Barnett (SEAL) x

Subscribed and sworn to before me this

28th day of August, 1980.

My commission expires October 16, 1989.

Notary Public

SEP 23 1980