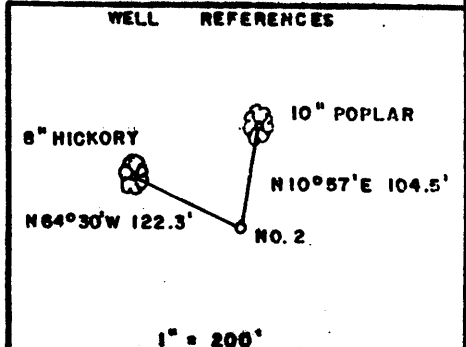
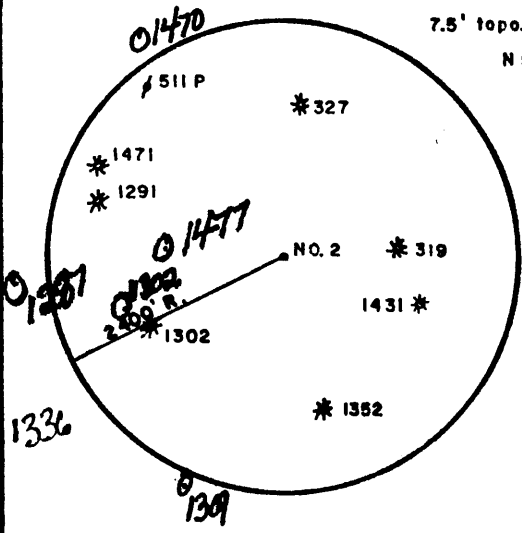
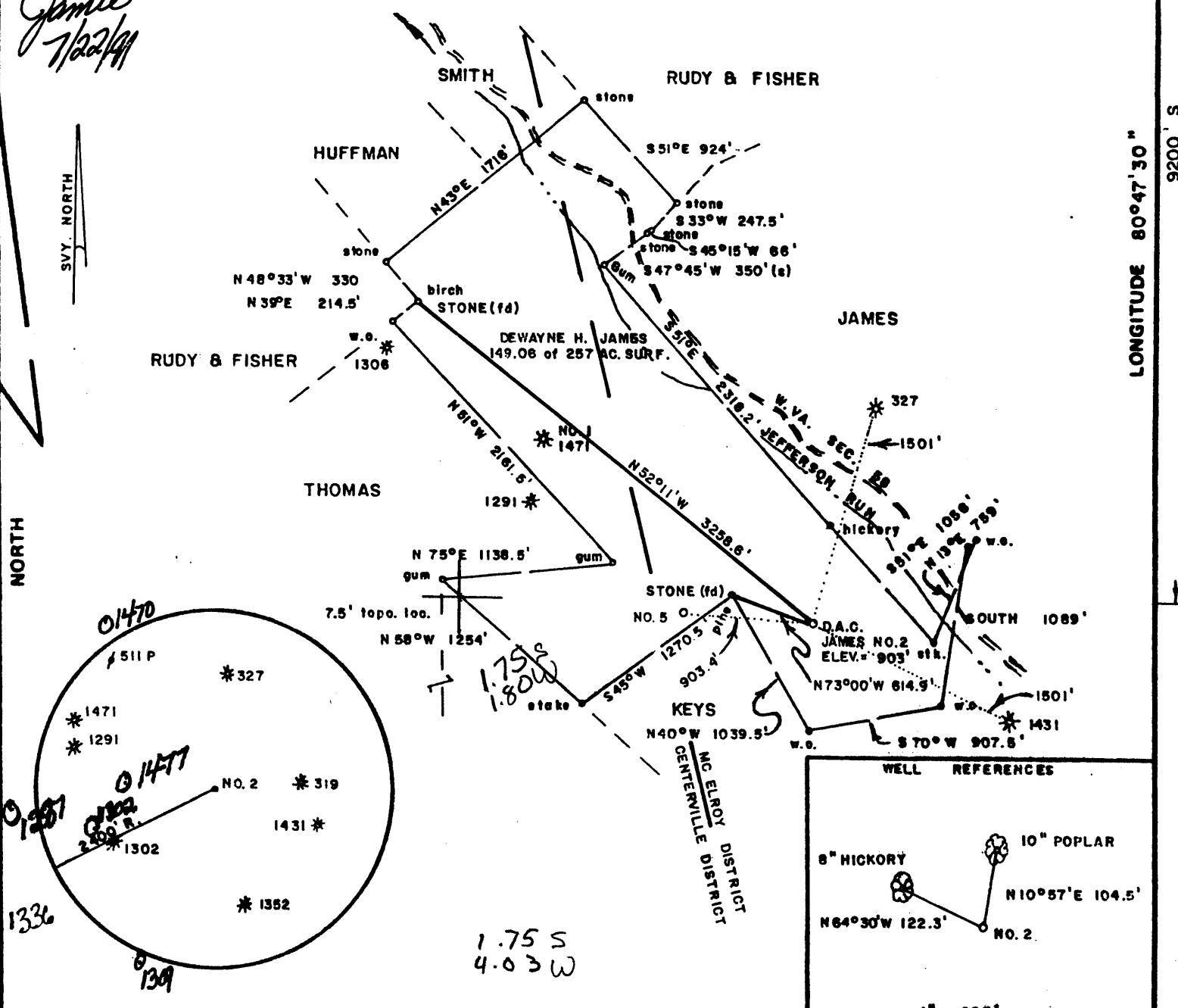


DEWAYNE H. JAMES LEASE 257 AC. ±

LATITUDE 39°25'00" 9470' W

Jamie 7/22/91



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS SOUTH OF LEASE ELEV. = 1097'

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. *Mark C. Echard*
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



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



DATE JULY 18, 19 91
 OPERATOR'S WELL NO. TWO
 API WELL NO. 47-095-1479
 STATE WEST VIRGINIA COUNTY TYLER 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 903' WATER SHED JEFFERSON RUN
 DISTRICT MC ELROY 5 COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5'
 SURFACE OWNER DEWAYNE H. JAMES ACREAGE 149.06 OF 257
 OIL & GAS ROYALTY OWNER DEWAYNE H. JAMES LEASE ACREAGE 257
 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
 TARGET FORMATION BENSON-RILEY ESTIMATED DEPTH 5200'
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99
ALMA, W.VA. 26320 ALMA, W.VA. 26320

JUL 29 1991

6-6 Wilbur (692)

Reviewed Imb
 Recorded _____

Well Operator's Report of Well Work

Farm name: JAMES, DEWAYNE H. Operator Well No.: D. JAMES #2

LOCATION: Elevation: 903.00 Quadrangle: SHIRLEY

District: MCELROY County: TYLER
 Latitude: 9200 Feet South of 39 Deg. 25Min. 0 Sec.
 Longitude 9470 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: MIKE UNDERWOOD
 Permit Issued: 07/22/91
 Well work Commenced: 7/25/91
 Well work Completed: 8/6/91
 Verbal Plugging _____
 Permission granted on: N/A
 Rotary Cable _____ Rig
 Total Depth (feet) 5025'
 Fresh water depths (ft) _____
 90'
 Salt water depths (ft) _____
 1700' 1750'
 Is coal being mined in area (Y/N)? _____
 Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11"	106'	106'	CTS 60sks
8-5/8"	1752'	1752'	CTS 390sks
4-1/2"		4986	180sks Thix

OPEN FLOW DATA

Producing formation Benson/Riley Pay zone depth (ft) 4432-60
4853-58
 Gas: Initial open flow 50 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 300 MCF/d Final open flow 0 Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 1400 psig (surface pressure) after 24 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: DRILLING APPALACHIAN CORP.

By: Kenneth R. Mason
 Date: 8/9/91

SEP 30 1991

Perforated 1st Stage, 4853'-4858', 20 shots.
 Fraced 20# gel water frac nitrogen assist.
 10,000# 80/100, 32,900# 20/40 sand, Formation break at 3142 psi,
 Avg treatment psi, 2628 psi, avg fluid rate, 23.34 bbl/minute,
 Avg nitrogen rate, 3500SCF/minute ISIP 1800 psi.

Perforated Second Stage, 4432'-4460' 16 shots.
 Fraced 20# gelled water frac, nitrogen assist.
 10,000# 80/100, 26,700# 20/40 sand. Fromation break at 2900 psi,
 Avg treatment psi, 2592 psi, avg fluid rate 22.2 bbl/minute,
 Avg nitrogen rate 3330 SCF/minute ISIP 2800 psi

Permian Sands/Shales	Surface	500'
Pennsylvanian		
Sands/Shales	500	1752
Big Time	1752	1827
Shale	1828	1831
Keener	1831	1842
Shale	1843	1851
Big Injun	1852	1946
Shale	1947	1951
Squaw Sand	1952	1990
Shale	1991	2147
Weir	2148	2252
Shale/Siltstone	2253	2348
Gantz Sand	2349	2352
Shale/Siltstone	2353	2573
Gordon Sand	2374	2578
Shale/Siltstone	2579	3259
Warren	3260	3302
Shale/Siltstone	3303	4429
Riley	4430	4462
Shale/Siltstone	4463	4850
Benson	4851	4858
Shale/Siltstone	4859	5025
TD		5025

SEP 30 1991

095-1479
Issued 07/22/91

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

Expires 07/22/93

- 1) Well Operator: 311 DRILLING APPALACHIAN CORPORATION 14425, (5) 606
- 2) Operator's Well Number: D. JAMES #2 3) Elevation: 925
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): 435 Benson/Riley
- 6) Proposed Total Depth: 5100± 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: Drill, perforate, stimulate new formation
- 12)

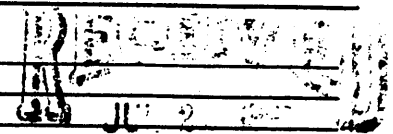
CASING AND TUBING PROGRAM

Newell

12638

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4"	H-40	33#	100'	100'	CTS
Fresh Water						OK
Coal						MU
Intermediate	8-5/8"	J-55	23#	1760'	1760'	38CSR18-11-2-2 38CSR18-11.3
Production	4-1/2"	J-55	10 1/2#	5000'	5000'	38CSR18-11.1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____



CK 7107 (20)

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
WPCP

Fee(s) paid: Well Work Permit Reclamation Fund Agent

Plat WW-9 WW-2B Bond Blanket sure (Type)

RECEIVED
JUL 22 1991

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: July 19, 1991
2) Operator's well number
D. James #2
3) API Well No: 47 - 095 - 1479
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 DEWAYNE H. JAMES
Address HCR 74, BOX 11
WILBUR, WV 26320
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector MIKE UNDERWOOD
Address ROUTE 2, BOX 135
SALEM, WV 26426
Telephone (304)- 782-1043

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name _____
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 5 on the above named parties, by:

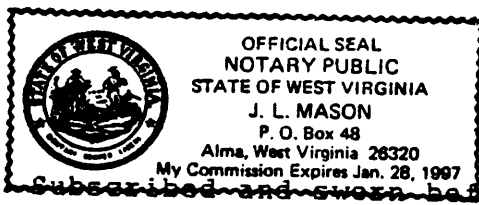
- ___ Personal Service (Affidavit attached)
- ___ Certified Mail (Postmarked postal receipt attached)
- ___ Publication (Notice of Publication attached)

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 H. Mason
Its: President
Address P. O. Box 99
Alma, WV 26320-0099
Telephone (304) 758-4638



~~Subscribed and sworn before me this~~ 19th day of July, 1991

My commission expires 1/28/97 Notary Public