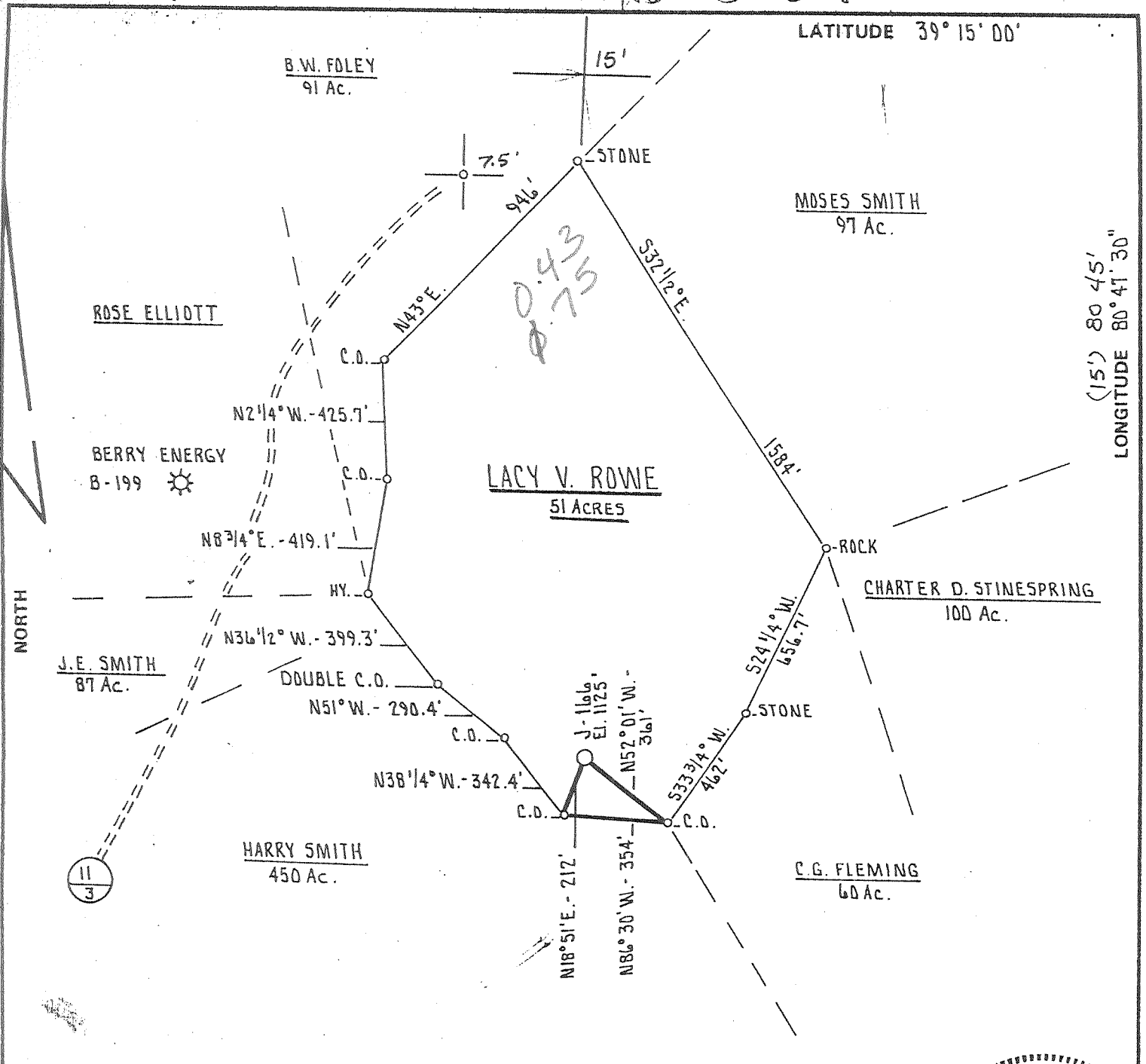


3-1

HW 5-6-80

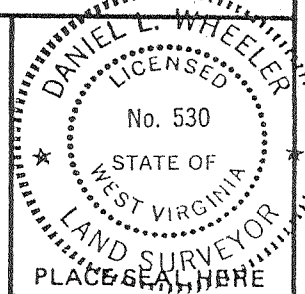
LATITUDE 39° 15' 00"



LONGITUDE 80° 45' 30"

FILE NO. 19/69  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION J. AND J. ENTERPRISES, BERRY ENERGY WELL # B-199  
ELEVATION 1056'

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)



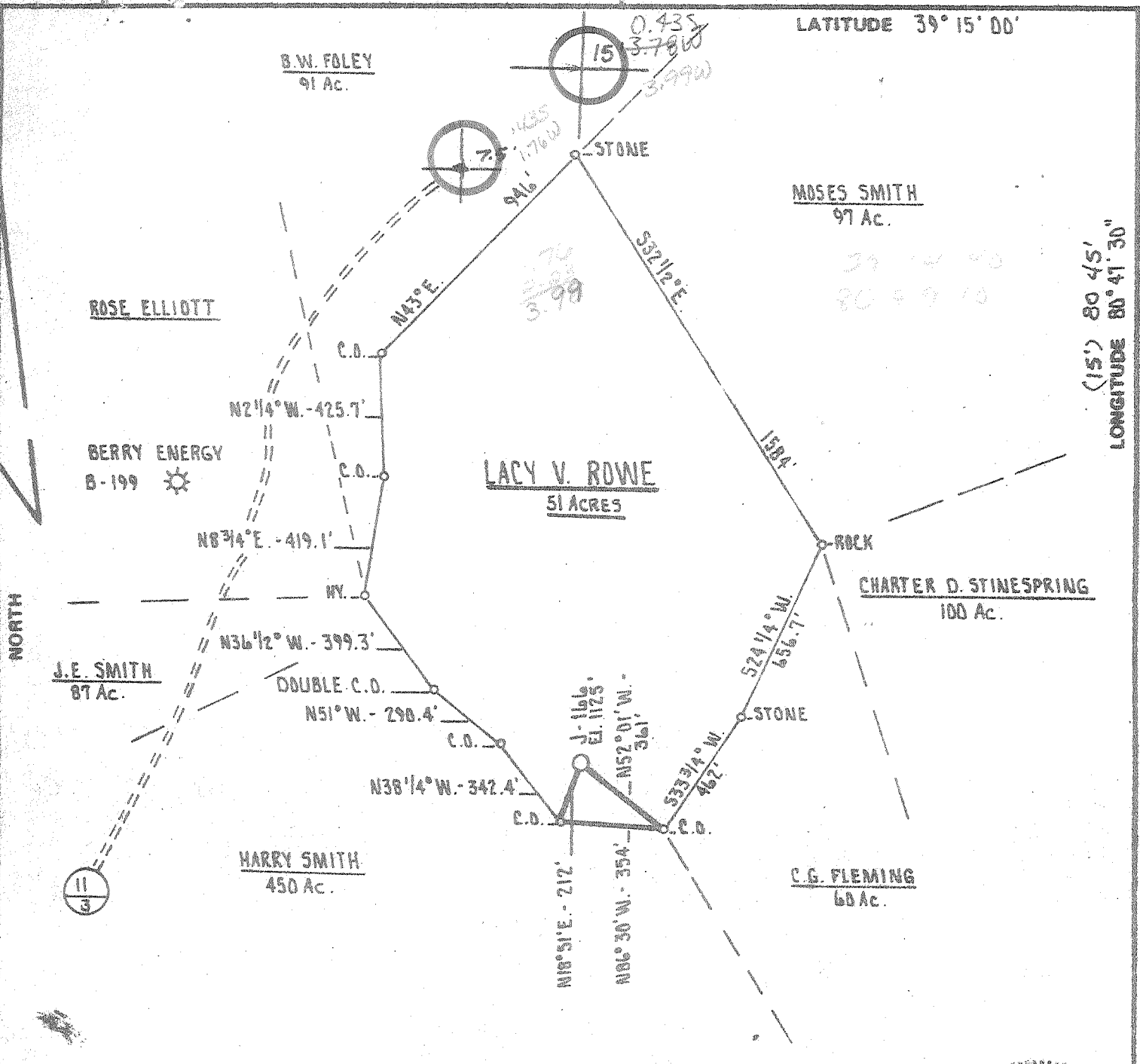
DATE APRIL 28, 19 80  
 OPERATOR'S WELL NO. J-1166  
 API WELL NO. \_\_\_\_\_  
47 - 017 - 2730F  
 STATE COUNTY PERMIT  
G

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 1125' WATER SHED RIGHT FORK TO ARNDLD CREEK  
 DISTRICT WEST UNION COUNTY DODDRIDGE  
 QUADRANGLE DXFORD 7.5' HOLBROOK 15'  
 SURFACE OWNER CORBITT E. COUCH ACREAGE 51  
 OIL & GAS ROYALTY OWNER LACY V. ROWE LEASE ACREAGE 51  
 LEASE NO. K-17  
 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 EASTERN AMERICAN ENERGY DESIGNATED AGENT JOHN PALETTI  
 ADDRESS BUCKLE P.O. Box 820 GLENVILLE, W.V. 26351 ADDRESS SAME  
11 \_\_\_\_\_  
VIA 26201

0000 2730F



LONGITUDE 80° 47' 30"

FILE NO. 19/69  
 DRAWING NO.  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION J. AND J. ENTERPRISES, BERRY ENERGY WELL # B-199  
 ELEVATION 1056'

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 E. Wheeler*  
 R.P.E. \_\_\_\_\_ L.L.S. 530



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

DATE APRIL 28, 1980  
 OPERATOR'S WELL NO. J-1166  
 API WELL NO.  
 47 - 017 - 2730  
 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 1125' WATER SHED RIGHT FORK TO ARNOLD CREEK  
 DISTRICT WEST UNION COUNTY BOBBIDGE  
 QUADRANGLE OXFORD T.5' HARBOCK IS' N/E  
 SURFACE OWNER CORBITT E. COUCH ACREAGE 51  
 OIL & GAS ROYALTY OWNER LACY V. ROWE LEASE ACREAGE 51  
 LEASE NO. K-17  
 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 ADDRESS P.O. BOX 48  
 BUCKHANNON, WEST VIRGINIA 26201 BUCKHANNON, WEST VIRGINIA 26201

*ALB*

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

Well Operator's Report of Well Work

Farm name: JACKSON, Larry & Virginia Operator Well No.: J-166

LOCATION: Elevation: 1125.00 Quadrangle: OXFORD  
District: WEST UNION County: DODDRIDGE  
Latitude: 39 Deg. 15 Min. 0 Sec.  
Longitude: 80 Deg. 47 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY CORP.  
P O BOX 820  
GLENNVILLE WV 26351

Agent: JOHN PALETTI

Inspector: MIKE UNDERWOOD

Permit Issued: 05/31/00

Well work commenced: 06/20/00

Well work completed: 06/30/00

Verbal plugging

permission granted on:

Rotary X Cable \_\_\_ Rig

Total Depth (feet) 5408' (1980)

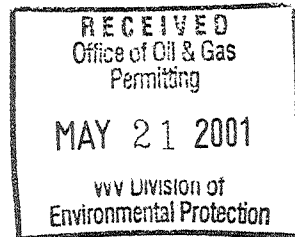
Fresh water depths (ft) 770'

Salt water depths (ft) NONE

Is coal being mined in area? (Y/N) N

Coal Depths (ft) NONE

Casing & Tubing	Used in Well	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1551'	1551'	420 sxs
4-1/2"		5368'	340 sxs



OPEN FLOW DATA

Producing Formation RILEY Pay zone depth (ft) 4510' - 4545'

Gas: Initial open flow 1061 MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow \_\_\_ MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests \_\_\_ Hours

Static rock pressure 1400 psi (surface pressure) after 36 Hours

2nd Producing Formation BALLTOWN Pay zone depth (ft) 3805' - 3962'

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 \_\_\_ psi (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.

JOHN PALETTI, AGENT

For: EASTERN AMERICAN ENERGY CORPORATION

By:

Date:

*John Paletti / KSA*  
APRIL 27, 2001

MAY 25 2001

*DODD. 2730-F*

J0166 WR35

STAGE ONE: Riley

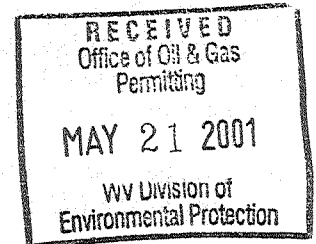
10 holes (4510' - 4545')

Fracture: 15% HCl acid, 25# cross link gel and 26,500# 20/40 sand. Formation broke at 1522 psi

STAGE TWO: Balltown

10 holes (3805' - 3962')

Fracture: 15% HCl acid, 25# cross link gel, and 25,000# 20/40 sand. Formation broke at 1993 psi.



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

WELL OPERATOR'S REPORT 1  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1125 Watershed: Right Fork  
District: West Union County: Doddridge Quadrangle: Oxford

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

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

PERMIT ISSUED ON 4-30, 19 80 OIL & GAS INSPECTOR FOR THIS WORK:  
Name Paul Garrett  
IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Address 321 Beech St.  
Clarksborg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5218-5260 feet  
Depth of completed well, 5408 feet Rotary X / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh, 770 feet; salt, \_\_\_\_\_ feet.  
Coal seam depths: None Is coal being mined in the area? No  
Work was commenced 5-27, 19 80, and completed 6-3, 19 80

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Conductor	11 3/4	H-40	42	X		0	0	0 sks	Kinds
Fresh water	8 5/8	ERW	23	X		1551	1551	420 sks	
Coal	8 5/8	ERW	23	X		1551	1551	420 sks	Sizes
Intermediate									
Production Tubing	4 1/2	J-55	10.5	X		5368	5368	340 sks	Depths set
Liners									Perforations:
									Top Bottom

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5218-5260 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Final open flow, 1,841 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 1800 psig (surface measurement) after 96 hours shut in

[Not applicable due to multiple completion--]

Second 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

**APPROVED**  
**JUL 8 1980**  
**OIL & GAS DIVISION**  
**DEPT. OF MINES**

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

Alexander: Perforations: 5218-5260 (14 holes)

Fracturing: 30,000 lbs. 80/100 sand: 60,000 lbs. sand: 439 E fluid

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Surface Clay			0	10	
Shale & Red Rock			10	40	
White Sand			40	235	
Brown Sand			235	250	
White Sand			250	260	
Shale & Sand			260	550	Damp @ 520'
Red Rock & Shale			550	660	
Sand & Shale			660	770	1/2" stream @ 770'
Red Rock & Shale			770	900	
Red Rock & Shale			900	1040	
Red Rock, Sand & Shale			1040	1240	
Sand & Shale			1240	1305	
Shale & Sand			1305	1960	
Lime & Sand			1960	2050	
Big Lime			2050	2085	
Shale			2085	2805	
and			2805	2850	
Shale			2850	2985	
and			2985	3117	
and & Shale			3117	3305	
and			3305	3355	
Shale			3355	3380	
and			3380	3470	
Sandy Shale			3470	4300	
and			4300	4365	
Shale			4365	4485	
and			4485	4635	Gas ck @ 4750 42/10 thru 11/2" w/water
Shale			4635	5218	
<u>Alexander</u>			5218	5260	
Shale			5260	5408	Gas ck @ 5347 29/10 thru 11/2" w/water T.D. 5408

(Attach separate sheets to complete as necessary)

J & J Enterprises, Inc.

Well Operator

By Peter Battles  
Peter Battles  
Geologist

NOTE: Regulation 2.001(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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-166  
API Well No. 47 - 017 2730  
State County Permit

WELL TYPE: Oil  / Gas  /  
(If "Gas", Production  / Underground storage  / Deep  / Shallow  /)  
LOCATION: Elevation: 1125 Watershed: Right Fork  
District: West Union County: Doddridge Quadrangle: Oxford 7,5

WELL OPERATOR J & J Enterprises, Inc.  
Address P. O. Box 48  
Buckhannon, W. Va. 26201

DESIGNATED AGENT H. L. Barnett  
Address P. O. Box 48  
Buckhannon, W. Va. 26201

OIL & GAS ROYALTY OWNER Dean & Lacy Rowe  
Address 909 Maple Street  
Parkersburg, W. Va. 26301  
Acreage 51

COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_

SURFACE OWNER Corbitt & Shirley Couch  
Address Rt. # 1  
Williamstown, WV 26187  
Acreage \_\_\_\_\_

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
**APR 30 1980**

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 321 Beech Street  
Clarksburg, W. Va. 26301

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  / dated July 7, 1978, to the undersigned well operator from Dean and Lacy Rowe

If said deed, lease, or other contract has been recorded:]  
Recorded on August 8, 1978, in the office of the Clerk of the County Commission of Doddridge county, West Virginia, in Oil & Gas Lease Book 104 at page 361. A permit is requested as follows:

PROPOSED WORK: Drill  / Drill deeper  / Redrill  / Fracture or stimulate  /  
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 objection 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 reclamation plan 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  
PHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
15 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J ENTERPRISES, INC.  
Well Operator  
By Peter Battles  
PETER BATTLES  
GEOLOGIST

[08-78]

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 P. O. BOX 48  
Buckhannon, W. Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5460 feet Rotary X / Cable tools      /

Approximate water strata depths: Fresh, 100 feet; salt, 1100 feet.

Approximate coal seam depths: None Is coal being mined in the area? Yes      / No X

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Conductor	11 3/4	H-40	42	X		30	30	0 sks	Kinds
Fresh water	8 5/8	ERW	23	X		1500	1500	375 sks	
Coal	8 5/8	ERW	23	X		1500	1500	375 sks	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5350	5350	325 sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 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 § 22-4-8a from the owner of any water well or drilling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well 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-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

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 1-12-81.

*[Signature]*  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, 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      / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date:     , 19    

By       
Its