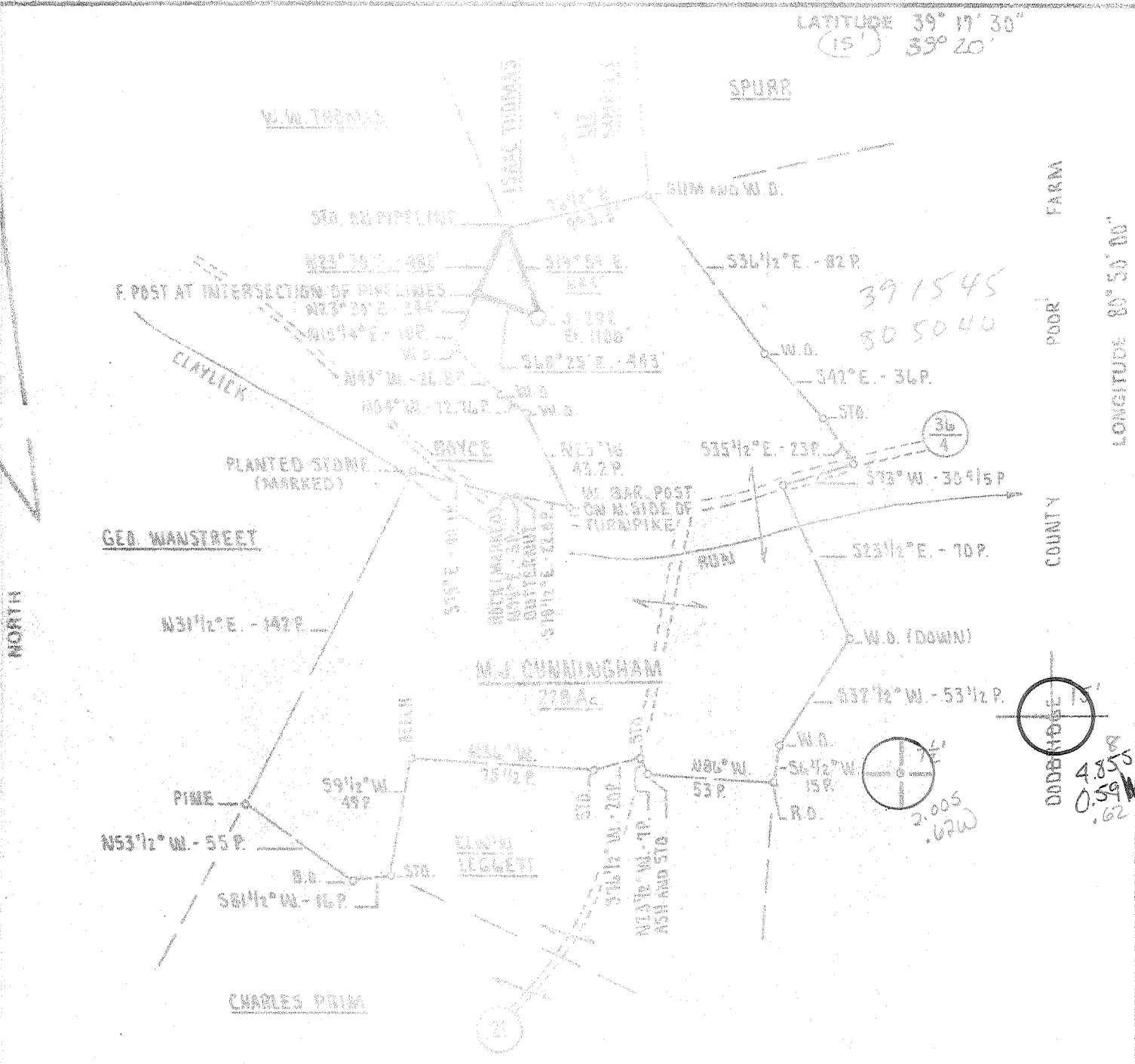


LATITUDE 39° 17' 30" (15') 39° 20'



C.I.E. NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION J. AND J. ENTERPRISES INC.
 WELL # K-11 #1 ELEVATION 1156'

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

PLACE SEAL HERE

- DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-B
 18 781



DATE AUGUST 1, 19 80
 OPERATOR'S WELL NO. J-292
 API WELL NO. 47 - 017 - 2816
 STATE 47 COUNTY 017 PERMIT 2816

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

71374 on CNG map

WELL TYPE OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION ELEVATION 1100 WATER SHED CLAYLICK RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE
 QUADRANGLE WEST UNION T5° E 15 3C

SURFACE OWNER JIM DAVIS ACREAGE 97 Ac.
 OIL & GAS ROYALTY OWNER CUNNINGHAM LEASE ACREAGE 228 Ac.
 LEASE NO. R-23

PROPOSED WORK DRILL CONVERT DRILL DEEPER RE-DRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND PERFORATE
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'
 OPERATOR J. AND J. ENTERPRISES INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
6-4 BUCKHANNON WEST VIRGINIA 26101 GREENWOOD BUCKHANNON WEST VIRGINIA 26201

AUG 28 1980

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

08-78,

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal /
 (If "Gas", Production x / Underground storage / Deep / Shallow x /)
 LOCATION: Elevation: 1100 Watershed: Clay Lick Run
 District: Central County: Doddridge Quadrangle: West Union 7.5'

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 x
 Plug off old formation / Perforate new formation
 Other physical change in well (specify):
 NOV 10 1980

PERMIT ISSUED ON 8-6, 19 80. OIL & GAS INSPECTOR FOR THIS WORK: DEPT. OF MINES
 Name Paul Garrett Address 321 Beech St. Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5385-5430 feet
 Depth of completed well, 5594 feet Rotary x / Cable Tools
 Water strata depth: Fresh, feet; salt, None feet.
 Coal seam depths: 235-40, 1380-83, 1790-95 Is coal being mined in the area? No
 Work was commenced 9-18, 19 80, and completed 9-23, 19 80

LOGGING AND TUBING PROGRAM

LOGGING 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		32	0	0 sks;	Minds
Fresh water	8 5/8	ERW	23	x		1818.45	1818.45	495 sks.	
al	8 5/8	ERW	23	x		1818.45	1818.45	495 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5466.50	5466.50	386 sks.	Depth set
Logging									
Packers									Perforations:
									Top Bottom
									3535 3677
									4289 4683
									5082 5084
									5366 5391

OPEN FLOW DATA
 Producing formation Alexander Pay zone depth 5366 5391 feet

Gas: Initial open flow, Mcf/d Oil: Initial open flow, bbl/d
 Final open flow, 880 Mcf/d Final open flow, bbl/d
 Time of open flow between initial and final tests, 4 hours
 Static rock pressure, 1525 psig (surface measurement) after 96 hours shut in.

Second producing formation Benson, Riley & Speechley Pay zone depth 5082 5084 5366 5391 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.

NOV 25 1980

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

Alexander: Perforations: 5366-5391 (14 holes)
 Fracturing: 300 sks. 80/100 sand: 560 sks. 20/40 sand: 300 lbs. Citric Acid:
 400 Bbls. fluid.

Benson: Perforations: 5082-84 (8 holes)
 Fracturing: 500 gal. acid: 100 sks. 80/100 sand: 200 sks. 20/40 sand: 400 Bbls. fluid.

Riley: Perforations: 4289-4683 (12 holes)
 Fracturing: 500 gal. Acid: 100 sks. 80/100 sand: 200 sks. 20/40 sand: 400 Bbls. fluid.

Speechley: Perforations: 3535-3677 (19 holes)
 Fracturing: 500 gal. Acid: 150 sks. 80/100 sand: 280 sks. 20/40 sand: 500 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fress and salt water, coal, oil and gas
Conductor			0	53	
Sand & shale			53	82	
Red rock, sand & shale			82	140	
Sand & shale			140	235	
Coal			235	240	
Shale & sand			240	430	
Sand, shale & red rock			430	650	
Shale & sand			650	800	
Sand & shale			800	1010	
Red rock & shale			1010	1380	
Coal			1380	1383	
Sand & shale			1383	1460	
Sand			1460	1550	
Sand & shale			1550	1680	
Sand & shale			1680	1790	
Coal			1790	1795	
Sand & shale			1795	2105	
Sand			2105	2140	
Little lime			2140	2205	
Big Lime			2205	2285	Gas ck @ 3311 12/10 thru 1" w/ water
Sand & shale			2285	2325	
Sand & shale			2325	2450	Gas ck @ 4456 2/10 thru 1/2" w/ water
Shale & sand			2450	2720	
Sand & shale			3050	3405	
Sand & shale			3405	3535	
Speechley			3535	3677	
Sand & shale			3677	4000	Gas ck. @ 5286 14/10 thru 1/2" w/water
Sand			4000	4289	
Riley			4289	4683	
Sand & shale			4683	4760	
Sand & shale			4760	5082	
Benson			5082	5110	
Sand & shale			5110	5366	
<u>Alexander</u>			5366	5430	
Shale			5430	5594	
				T.D.	

(Attach separate sheets to complete as necessary)

J & J Enterprises, ITC.
 Well Operator
 By Peter Battles
 Peter Battles
 Its Geologist

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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-292

API Well No. 47 - 017-2816
State County Per

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow /)
LOCATION: Elevation: 1100 Watershed: Clay Lick Run
District: Central County: Doddridge Quadrangle: West Union 7.5'

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

DESIGNATED AGENT J & J Enterprises, Inc.
Address Box 48
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Richard J. Cunningham
Address 8284 Klusman
Cucamota, CA 90730

COAL OPERATOR None
Address _____

Acreage 288

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____

SURFACE OWNER James & Marcia Davis
Address 435 Union St.
West Union, WV 26456
Acreage _____

Address _____

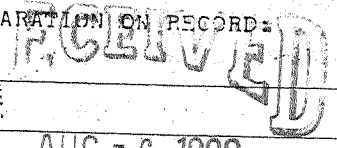
Name _____

FIELD SALE (IF MADE) TO:
Name _____
Address _____

Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26201

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____



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 4-16, 1980, to the undersigned well operator from Justin Henderson
[If said deed, lease, or other contract has been recorded:]

Recorded on 5-16, 1980, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Deed Book 115 at page 74. 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 obligation 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
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
6615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 548-3092

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 Co.
Address Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5600 feet Rotary Cable tools

Approximate water strata depths: Fresh, 100 feet; salt, 1700 feet.

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

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	113/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1750	1750	475 sks.	
Coal	8 5/8	ERW	23	x		1750	1750	475 sks.	Sizes
Intermediate									
Production Tubing	4 1/2	J-55	10.5	x		5575	5575	500 sks.	Depths set
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 in part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 4-13-81

John R. Kemp
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