

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Intersection of Rt. 57 with Rt. 57 1/2 Elev. 1030

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) David Z. Jackson
 R.P.E. _____ L.L.S. 708

PLACE SEAL HERE

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



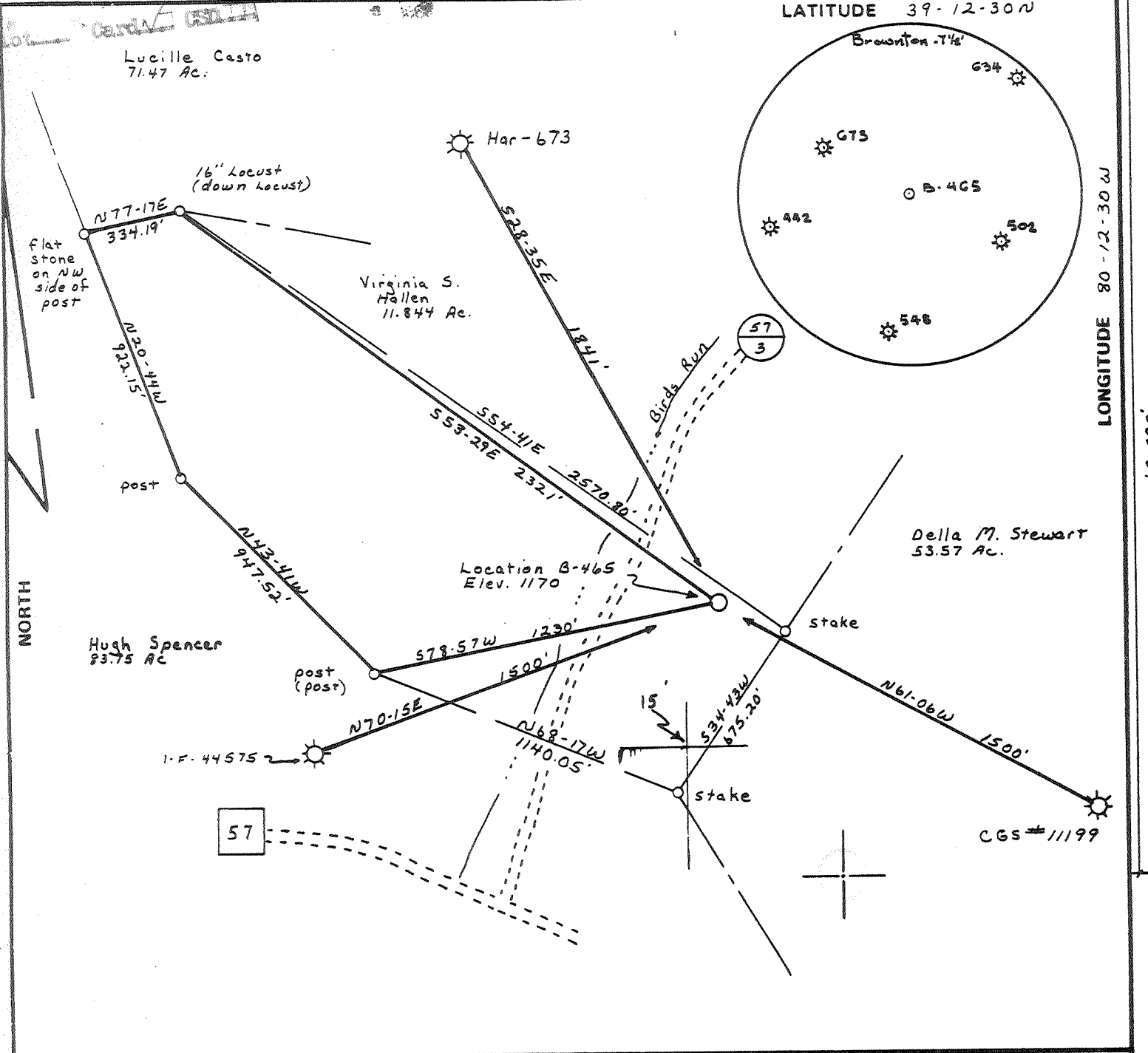
DATE February 15, 1982
 OPERATOR'S WELL NO. B-465
 API WELL NO. _____
47 - 033 - 2805
 STATE COUNTY PERMIT

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 1170 WATER SHED Birds Run
 DISTRICT Elk COUNTY Harrison
 QUADRANGLE Brownston 7 1/2 min. Phillipps 15' NW
 SURFACE OWNER Woodrow Stout and Dottie Stout ACREAGE 47.079
 OIL & GAS ROYALTY OWNER Woodrow Stout and Dottie Stout LEASE ACREAGE 48
 LEASE NO. 2082
 PROPOSED WORK: DRILL X 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 ESTIMATED DEPTH 4700
 WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Berry Energy Consultants & Mgr's, Inc.
 ADDRESS % Berry Energy Consultants & Mgr's, Inc. 11th Floor, Union National Bank Bldg.

JUN 14 1982



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 (SIGNED) David L. Jackson
 R.P.E. _____ L.L.S. 708

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



DATE February 15, 1982
 OPERATOR'S WELL NO. B-465
 API WELL NO. _____
47 - 033 - 2805-REM
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

JUL 05 1983

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 WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Berry Energy Consultants & Mgr's, Inc.
 ADDRESS % Berry Energy Consultants & Mgr's, Inc. 11th Floor, Union National Bank Bldg. P.O. Box 5, Clarksburg, WV 26301

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

FOAM FRACED - June 3, 1983

SINGLE STAGE FRAC

BENSON: 700 sks, 20.40, 973,000 NCF, N₂ - 315 Bbls. H₂O

PERFORATION: Benson; 4307-4311 - 12 Holes

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Cond.			0	30	Damp @ 50'
White Sand			30	77	Show of ¼ Stream H ₂ O @ 77'
Sandy Shale			77	81	
Gray Sand			81	106	
Sandy Shale & Red Rock			106	142	
Sand			142	288	
Shale			288	471	
Sand			471	510	
Shale			510	603	
Sand			603	647	
Sandy Shale			647	670	
Coal			670	674	Coal
Sand			674	722	
Shale			722	725	
Sandy Shale			725	755	
Sand			755	820	
Sandy Shale			820	838	
Sand & Shale			838	1000	
Sandy Shale			1000	1028	
Sand			1028	1100	
Sandy Shale			1100	1172	
Sand			1172	1285	
Sandy Shale			1285	1305	
Sand			1305	1357	
Red Rock & Shale			1357	1365	
Limey Sand			1365	1375	
Shale & Sand			1375	1415	
Little Lime			1415	1431	
Sandy Shale			1431	1455	
Big Lime & Injun			1455	1634	
Sandy Shale			1634	1719	
Sandy			1719	1761	
Shale			1761	1855	Gas Ck @ 1803' - No Show
Sandy Gantz			1855	1875	
Shale			1875	1890	
Sand			1890	1925	
Shale			1925	1931	
Sandy Shale			1931	2162	
Sand			2162	2174	

(CONTINUED)
(Attach separate sheets as necessary)

J & J Enterprise Inc. %

Berry Energy Consultants & Mgrs.

Well Operator

By: _____

Date: _____

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."

JUN 27 1983

JUL 05 1983

OIL & GAS DIVISION Well NO: B-465
DEPT. OF MINE PERMIT NO: 47-033-2805 Ren.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Red Rock			2174	2176	
Sand			2176	2219	
Sandy Shale			2219	2225	
Sandy			2225	2230	
Red Rock & Shale			2230	2254	
Sand			2254	2270	
Red Rock & Shale			2270	2285	
Sandy			2285	2290	
Sandy Shale			2290	2300	Gas Ck @ 2300' - No Show
Sand			2300	2320	
Sandy Shale			2320	2398	
Shale			2398	2418	
Sand			2418	2442	
Sandy Shale			2442	3520	Gas Ck @ 3307' - No Show
Sand			3520	3572	
Sandy Shale			3572	4315	Gas Ck @ 4296' - No Show
Brown Sand <i>Benson</i>			4315	4340	
Sandy Shale			4340	4350	
Brown Sand			4350	4365	Gas Ck @ 4390', 18/10 - 1" F.M.
Sandy Shale			4365	4550 T.D.	w/H ₂ O

Benson @ T.D.

(Attach separate sheets as necessary)

J & J Enterprise Inc. %

Berry Energy Consultants & Mgrs.

Well Operator

By: *WFB Berry Operator*

Date: *June 24, 1983*

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."

(Revised 3-81)

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 P.O. Box 48

Buckhannon, W.Va. 26201

GEOLOGICAL TARGET FORMATION Benson
Estimated depth of completed well 4700' feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, 95' feet; salt, none feet.
Approximate coal seam depths: Various (No Pittsburgh)
Is coal being mined in this area: Yes / No No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drilling	Left in Well		
Conductor	11-3/4	API	42#	X		30'	30'	To Surface	Kinds
Fresh water	8-5/8	API	24#	X		135'	135'	To Surface	
Sal	8-5/8	API	24#	X		Various		To Surface	Sizes
Intermed.	8-5/8	API	24#	x		1200'	1200'	To Surface	
Production	4-1/2	API	10.#	x		4400'	4400'	350 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 dwelling 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,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 2-8-83
BY [Signature]

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 regularions.

Date: , 19 .

By:

Its:



1) Date: April 8, 19 83
 2) Operator's Well No. B-465
 3) API Well No. 47 State 033 County 2803-REN. Permit

DRILLING CONTRACTOR:

S. W. Jack Drilling Co.
Buckhannon, WV 26201

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1170' Watershed: Elk Creek
 District: Elk County: Harrison Quadrangle: Brownston 7.5
- 6) WELL OPERATOR C78 Enterprises, Inc. 11) DESIGNATED AGENT W. B. Berry
 Address P.O. Box 5 Address P.O. Box 5
Clarksburg, WV 26301 Clarksburg, WV 26301
- 7) OIL & GAS ROYALTY OWNER Woodrow Stout 12) COAL OPERATOR Not Operated
 Address Rt. #2, Box 38 Address _____
Lost Creek, WV
 Acreage 47
- 8) SURFACE OWNER Woodrow Stout 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Same Name Woodrow Stout
 Address Same
 Name _____
 Address _____
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name Stephen Cassey Name N/A
 Address Rt. #2, Box 232-D Address _____
Jane Lew, WV 26378
- 15) PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Benson
 17) Estimated depth of completed well, 4700' feet
 18) Approximate water strata depths: Fresh, 95' feet; salt, None feet.
 19) Approximate coal seam depths: Various (No Pittsburgh) Is coal being mined in the area? Yes _____ / No X /

20) 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	21 3/4	API	42#	X		30'	30'	To surface	Kinds	
Fresh water	8 5/8	API	24#	X		125"	125'	To surface	None	
Coal	8 5/8	API	24#	X		various		To surface	Sizes	
Intermediate	8 5/8	API	24#	X		1200'	1200'	To surface		
Production	4 1/2	API	10#	X		4400'	4400'	350 Sks	Depths set	
Tubing										
Liners									Perforations:	
									Top	Bottom

21) EXTRACTION RIGHTS

- Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) 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.

Notary: _____
 My Commission Expires _____

Signed: W. B. Berry
 Its: Operator

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-033-2803-Renewal

Date April 13 19 83

Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires December 15, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>500</u>	Agent: <u>77</u>	Plat: <u>A</u>	Casing: <u>2</u>	Fee: <u>4017</u>
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Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.