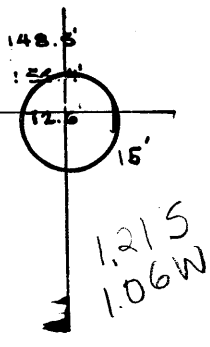


M. J. 2-24-82

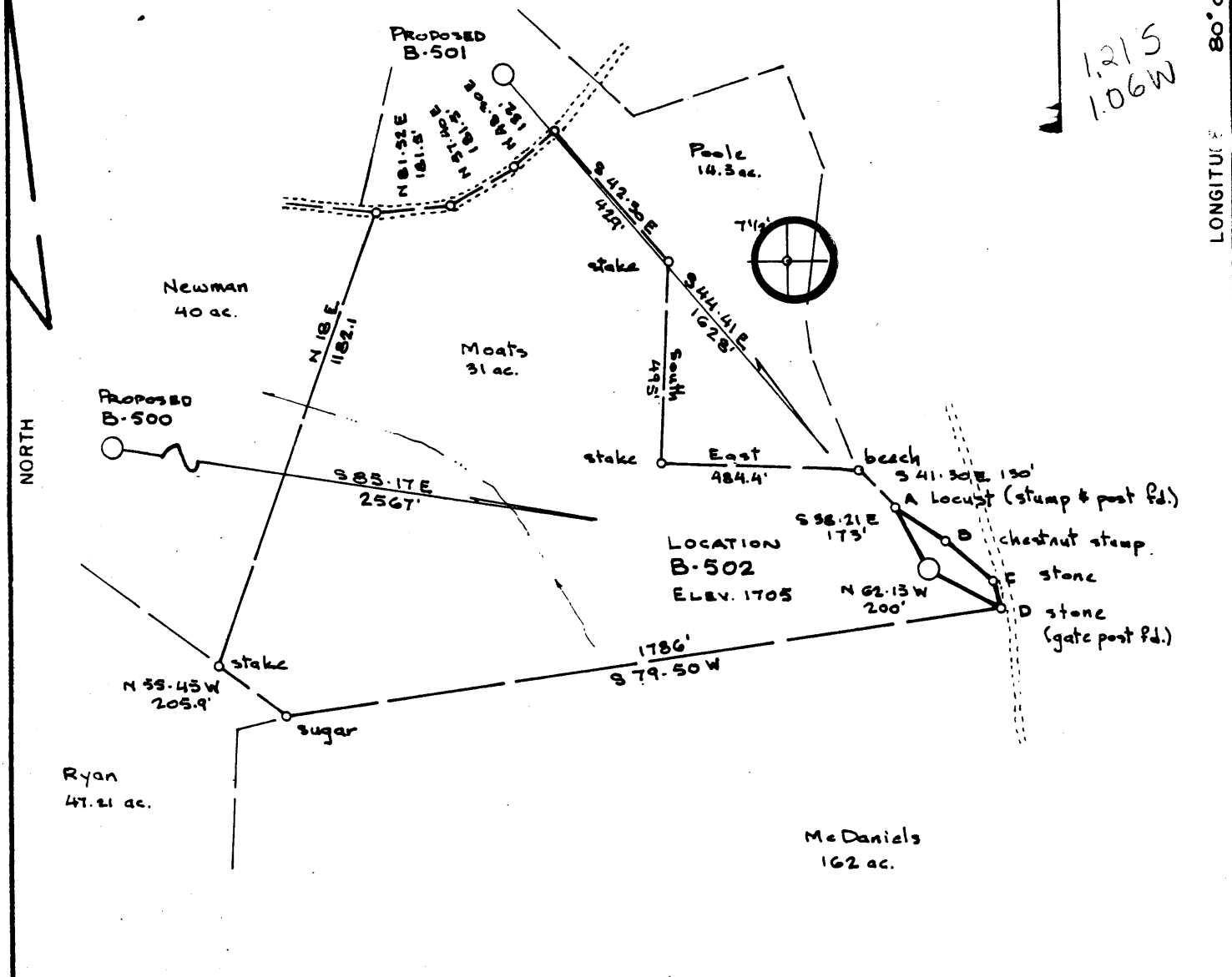
5550'

LATITUDE 39° 10' 00" N

AB: S 61.35E 148.5'  
 BC: S 54.50E 125.4'  
 CD: S 20.50E 12.6'



LONGITUDE 80° 00' 00" N  
 6330'



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE \_\_\_\_\_ 1" = 400'  
 MINIMUM DEGREE OF ACCURACY \_\_\_\_\_ 1 in 200  
 PROVEN SOURCE OF ELEVATION 24. junction 1700' NW of Location; Elevation 1660

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) W. R. P. E. L.L.S. 669

PLACE SEAL HERE

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



Department of Mines  
 Oil & Gas Division

DATE FEBRUARY 5, 1982  
 OPERATOR'S WELL NO. B-502  
 API WELL NO. \_\_\_\_\_  
47 - 001 - 1709  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1705 WATER SHED TYGART VALLEY RIVER  
 DISTRICT PHILIPPI COUNTY BARBOUR  
 QUADRANGLE PHILIPPI 7 1/2' 415' EC  
 SURFACE OWNER JAMES MOATS ACREAGE 31  
 OIL & GAS ROYALTY OWNER MARIE GALL LEASE ACREAGE 213  
 LEASE NO. 2127  
 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 HAVERTY ESTIMATED DEPTH 5200  
 WELL OPERATOR J & J ENTERPRISES, INC. DESIGNATED AGENT BERRY ENERGY CONSULTANTS & MGRS, INC.  
 ADDRESS % BERRY ENERGY CONSULTANTS & MGRS, ADDRESS 11th FLOOR UNION NATIONAL BANK BLDG  
P.O. Box 5, CLARKSBURG, WV 26301 P.O. Box 5, CLARKSBURG, WV 26301

MAR 29 1982

RECEIVED



IV-35 (Rev 8-81)

DEC 21 1982

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

State of West Virginia

Department of Mines Oil and Gas Division

Date July 23, 1982

Operator's Well No. B-502

Farm Myra Moats

API No. 47 - 001 - 1709

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 x / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 1705' Watershed Tygart's Valley River District: Philippi County Barbour Quadrangle Philippi 7.5 Min.

COMPANY J & J Enterprise Inc. % Berry Energy Consultants & Mgrs.

ADDRESS P.O. Box 5, Clarksburg, WVa. 26301

DESIGNATED AGENT SAME

ADDRESS SAME

SURFACE OWNER Myra Moats

ADDRESS Rt. 2, Philippi, WVa. 26412

MINERAL RIGHTS OWNER Marie Gall, et al

ADDRESS P.O. Box 301, Philippi, WVa. 26412

OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart P.O. Box 345 ADDRESS Jane Lew, WVa. 26378

PERMIT ISSUED March 11, 1982

DRILLING COMMENCED 6-10-82

DRILLING COMPLETED 6-19-82

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

Table with 4 columns: Casing/Tubing Size, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 11-3/4, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Haverty Depth 5400' feet

Depth of completed well 5150' feet Rotary xy / Cable Tools

Water strata depth: Fresh 115' feet; Salt None feet

Coal seam depths: 120-25, 135-45, 215-20, 675-80. Is coal being mined in the area? NO

OPEN FLOW DATA Producing formation { 4th Elk -> 4900-4927, 3rd Elk -> 4653-4663, Benson } Pay zone depth 4002-4006 feet

Gas: Initial open flow Trace Mcf/d Oil: Initial open flow N/A Bbl/d Final open flow 1,391,000 Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1570# psig (surface measurement) after 7 DAYS shut in (If 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 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

DEC 27 1982 (Continue on reverse side)

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

WATER FRACED: July 22, 1982

1st Stage: 4th Elk; 80,000# total Prop, 10,000#, 80/100, 20,000#, 20/40, 770 Bbls. H<sub>2</sub>O  
 2nd Stage: 3rd Elk; 10,000#, 80/100, 60,000#, 20/40, 620 Bbls. H<sub>2</sub>O  
 3rd Stage: Benson; 10,000#, 80/100, 60,000#, 20/40, 590 Bbls. H<sub>2</sub>O

Perforations: 4th Elk; 4900-4927 - 13 Holes  
 3rd Elk; 4653-4663 - 14 Holes  
 Benson; 4002-4006 - 14 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	26	
Red Rock			26	30	
Sand			30	120	Water @ 115' - ½" Stream
Coal			120	125	Coal
Sandesh			125	135	
Coal			135	145	Coal
Sandesh			145	215	
Coal			215	220	Coal
Sand			220	325	
Shale			325	380	
Sand			380	440	
Sandesh			440	455	
Sand			455	655	
Sand & Shale			655	675	
Coal			675	680	Coal
Sand, Shale & Red Rock			680	750	
Sand & Shale			750	860	
Sand			860	995	
Sandesh, Red Rock			995	1135	
Big Lime			1135	1240	
Sand			1240	1345	
Sandesh			1345	1365	Water @ 1400' - 1" Stream
Sand			1365	1650	
Sandesh			1650	2205	
Sand			2205	3180	
Sandesh			3180	3300	
Sandy Shale			3300	3600	Gas Ck @ 3620' - No Show
Sandesh			3600	3990	
Brown Sand Benson			3990	4090	Gas Ck @ 4115' - Odor
Sandesh			4090	4330	
Brown Sand			4330	4380	
Sandy Shale			4380	4500	
Sand			4500	4520	Gas Ck @ 4610' - Odor
Sandy Shale			4520	4900	Gas Ck @ 4920' - No Show
Sand			4900	4940	
Sandesh			4940	5150 TD	

(Attach separate sheets as necessary)

J & J Enterprise Inc. %

Berry Energy Consultants & Mgrs.

Well Operator

By: [Signature]

Date: 8/5/82

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  
 those encountered in the drilling of a well."

RECEIVED



Farm Myra Moats  
API #47 -001 - 1709  
Date February 19, 1982

(Revised 3-81)

FEB 24 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES  
STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil \_\_\_ / Gas XX /  
(If "Gas", Production XX / Underground storage \_\_\_ / Deep \_\_\_ / Shallow XX /

LOCATION: Elevation: 1705' Watershed: Tygart Valley River  
District: Philippi County: Barbour Quadrangle: Philippi 7.5 Min.

WELL OPERATOR J & J Enterprise Inc. % Berry Energy Consultants & Mgrs. DESIGNATED AGENT Berry Energy Consultants & Mgrs.  
Address P.O. Box 5 (Location) 11th Floor Union National Bank Building  
Clarksburg, West Virginia 26301 Clarksburg, West Virginia 26301

OIL AND GAS ROYALTY OWNER Marie Gall, et al COAL OPERATOR Mined Out  
Address P. O. Box 301 Address \_\_\_\_\_  
Philippi, WV 26416

ACREAGE 91.66 of 213 COAL OWNER(S) WITH DECLARATION ON RECORD:  
NAME Marie Gall  
Address P. O. Box 301  
Philippi, WV 26416

SURFACE OWNER Myra Moats NAME Louise Heimel  
Address Rt. 2 Address 12700 S.W. Fielding Road  
Philippi, WV 26412 Lake Oswego, OR 97034  
ACREAGE 31

FIELD SALE (IF MADE) TO:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_  
COAL LESSEE WITH DECLARATION ON RECORD:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
NAME Robert Stewart  
Address P. O. Box 345  
Jane Lew, WV 26378  
Telephone 884-7782

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease XX / other contract \_\_\_ / dated Nov. 7, 1979, to the undersigned well operator from Marie Gall, et al to W. B. Berry  
(If said deed, lease, or other contract has been recorded:)

Recorded on November 21, 1979, in the office of the Clerk of County Commission of Barbour County, West Virginia, in OG 82 Book at page 395. A permit is requested as follows:

PROPOSED WORK: Drill XXX / 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 522-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOLOGICAL LOGS DIRECTLY TO: **BLANKET BOND** J & J Enterprise Inc. % Berry Energy Consultants & Mgrs. Well Operator

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1613 WASHINGTON ST., E.  
By: W. B. Berry President

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, West Virginia 26201

GEOLOGICAL TARGET FORMATION Haverty
Estimated depth of completed well 5400' feet. Rotary XX / Cable tools /
Approximate water strata depths: Fresh, 140' & 1000' feet; salt, None feet.
Approximate coal seam depths: 100' & 140'
Is coal being mined in this area: Yes / No XX /

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For Drill, Left in Well), CEMENT FILL UP OR SACKS (Cubic ft.), PACKERS (Kinds, Sizes, Depths set, 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 11-11-82.
BY [Signature]

[Handwritten 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 regulations.

Date: , 19
By:
Its: