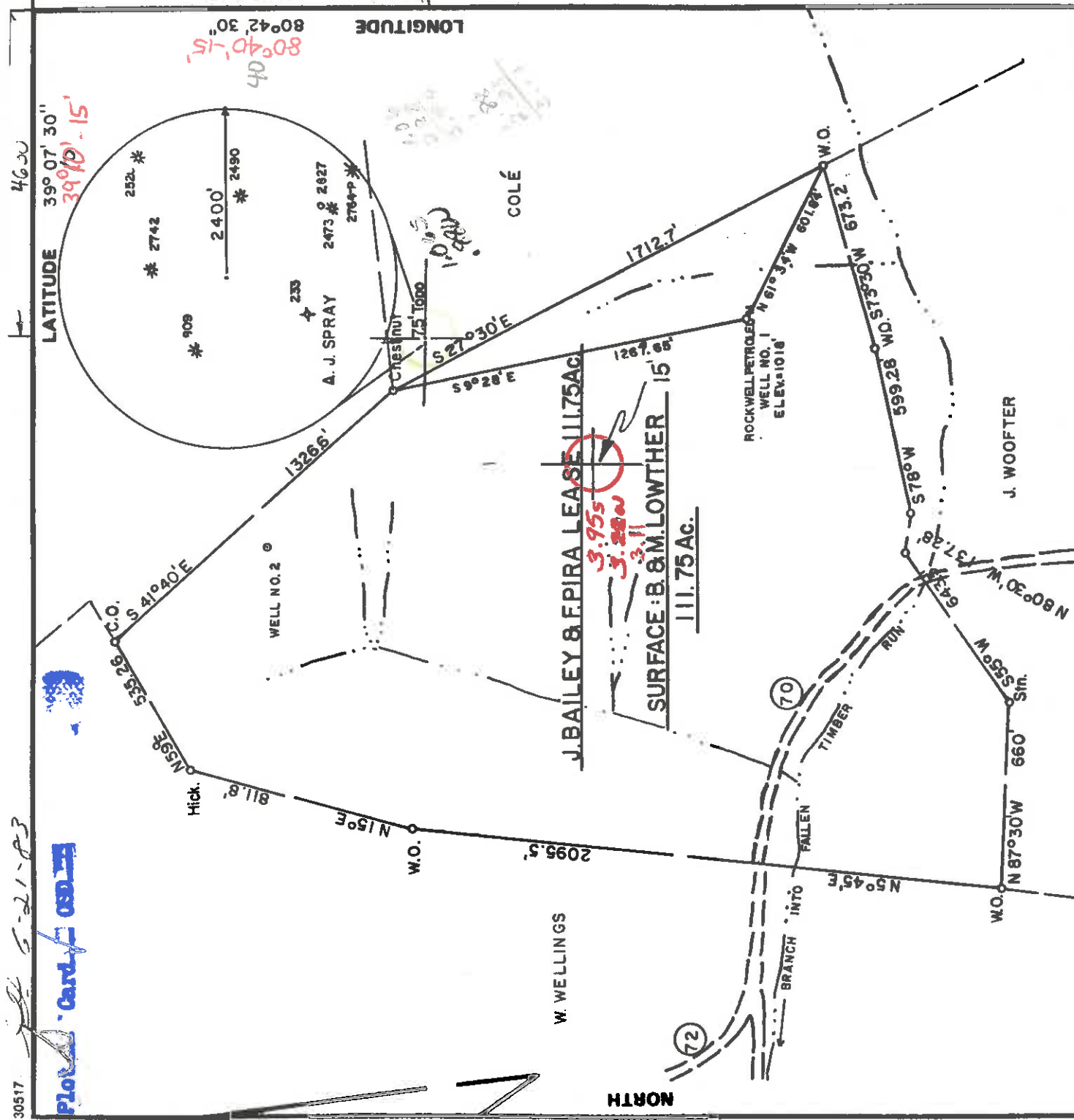


30517

Flow Card OSD

5-21-83



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200'
 PROVEN SOURCE OF ELEVATION INTERSECTION OF RTES (70) & (72) 240' SW OF LOC. EL. = 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) Mark C. Echard
 MARK C. ECHARD
 R.P.E. _____ L.L.S. 490

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

PLACE SEAL HERE
 DATE MAY 26, 19 83
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47-017-3228
 STATE VA COUNTY PERMIT



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

JUL 05 1983

WELL TYPE: OIL _____ GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1050' WATER SHED FALLEN TIMBER RUN
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE VADIS 7.5' ACREAGE 111.75
 SURFACE OWNER BRYAN B. & MARY J. LOWTHER
 OIL & GAS ROYALTY OWNER JOHN S. BAILEY & FOLK PIRA LEASE ACREAGE 111.75

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 SANTZ ESTIMATED DEPTH 2400'
 WELL OPERATOR ROCKWELL PETROLEUM DESIGNATED AGENT MACK R. WORL
 ADDRESS BOX 179 ADDRESS BOX 179
GLENNVILLE, W. Va. 26351 GLENNVILLE, W. Va. 26351

BIAS BLUEPRINT / Huntington, WV 6-6 Conings (142)



RECEIVED

AUG 6 1984

IV-35
(Rev 8-81)

Date September 1, 1983

OIL & GAS DIVISION

Operator's Well No. Woofter #1

DEPT. OF MINERS OF West Virginia

Department of Mines

Farm Bryan Lowther

Oil and Gas Division

API No. 47 - 017 - 3228

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production / Undergrnd Storage / Deep / Shallow /)

LOCATION: Elevation: 1018' Watershed: Fallen Timber Run

District: Cove County: Doddridge Quadrangle: Vadis, WV

COMPANY Rockwell Petroleum Company

ADDRESS PO Box 179 Glenville, WV 26351

DESIGNATED AGENT Mack R. Worl

ADDRESS PO Box 179 Glenville, WV 26351

SURFACE OWNER Bryan Lowther

ADDRESS Mentor, OH 44060

MINERAL RIGHTS OWNER John Bailey Jr.

ADDRESS 214 8th St. Parkersburg, WV 26101

OIL AND GAS INSPECTOR FOR THIS WORK Steven

Casey ADDRESS: Rt. 2 Box 232-D Jane Lew WV 26378

PERMIT ISSUED June 27, 1983

DRILLING COMMENCED 8/15/83

DRILLING COMPLETED 8/18/83

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

Casing Tubing Size 20-16 Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
13-10"			
9 5/8			
8 5/8	498'	498'	
7			
5 1/2			
4 1/2		2213'	100 sacks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Big Injun Depth 2122 feet

Depth of completed well 2292 feet Rotary X / Cable Tools

Water strata depth: Fresh 60 feet; Salt feet

Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Injun Pay zone depth 2122' feet

Gas: Initial open flow 20,000 Mcf/d Oil: Initial open flow Bbl/d

Final open flow 750,000 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 650 psig (surface measurement) after 12 hours 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

SEP 17 1984

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

Perforations 2188-92 6 Perforations 49 *shale below Injun?*
 2139-41 3 Perforations 49 *Injun*
 8 5/8 498' 150 Sacks: Dowell
 4 1/2" 2221' 90 Sacks: Dowell

Frac Single Stage
 60,000 20/40 537 BBLs.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Surface	0	50	Including indication of all fresh and salt water, coal, oil and gas
Sand	50	70	
Shale	70	150	Water
Red Rock	150	250	
Sandy Shale	250	320	Show of gas
Sand	320	480	
Shale	480	700	Show of Gas
Sand	700	850	
Shale	850	1100	Show of gas
Sand	1100	1130	
Sandy Shale	1130	1400	Show of Gas
Sand	1400	1440	
Shale	1440	1540	Show of Gas
Sand	1540	1600	
Shale	1600	1670	Show of Gas
Sand	1670	1720	
Shale	1720	1770	Show of Gas
Sand	1770	1806	
Shale (Blue Monday)	1806	1964	Show of Gas
Sand	1964	2000	
Shale	2000	2020	Show of Gas
Lime	2020	2090	
Sand (Big Injun)	2090	2170	Show of Gas
Shale	2170	2214	
Total Depth	2214	2214	

(Attach separate sheets as necessary)

Well Operator _____
 By: Ray Craig Worland
 Date: September 1, 1983
 Rockwell Petroleum Company

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

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
- "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e)
- 23) 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.
- 24) **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.**

.....

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 _____