

Plot Card CSD

LATITUDE 39° 12' 30" 39° 15' 00"

LONGITUDE 80° 32' 30" 80° 30' 00"

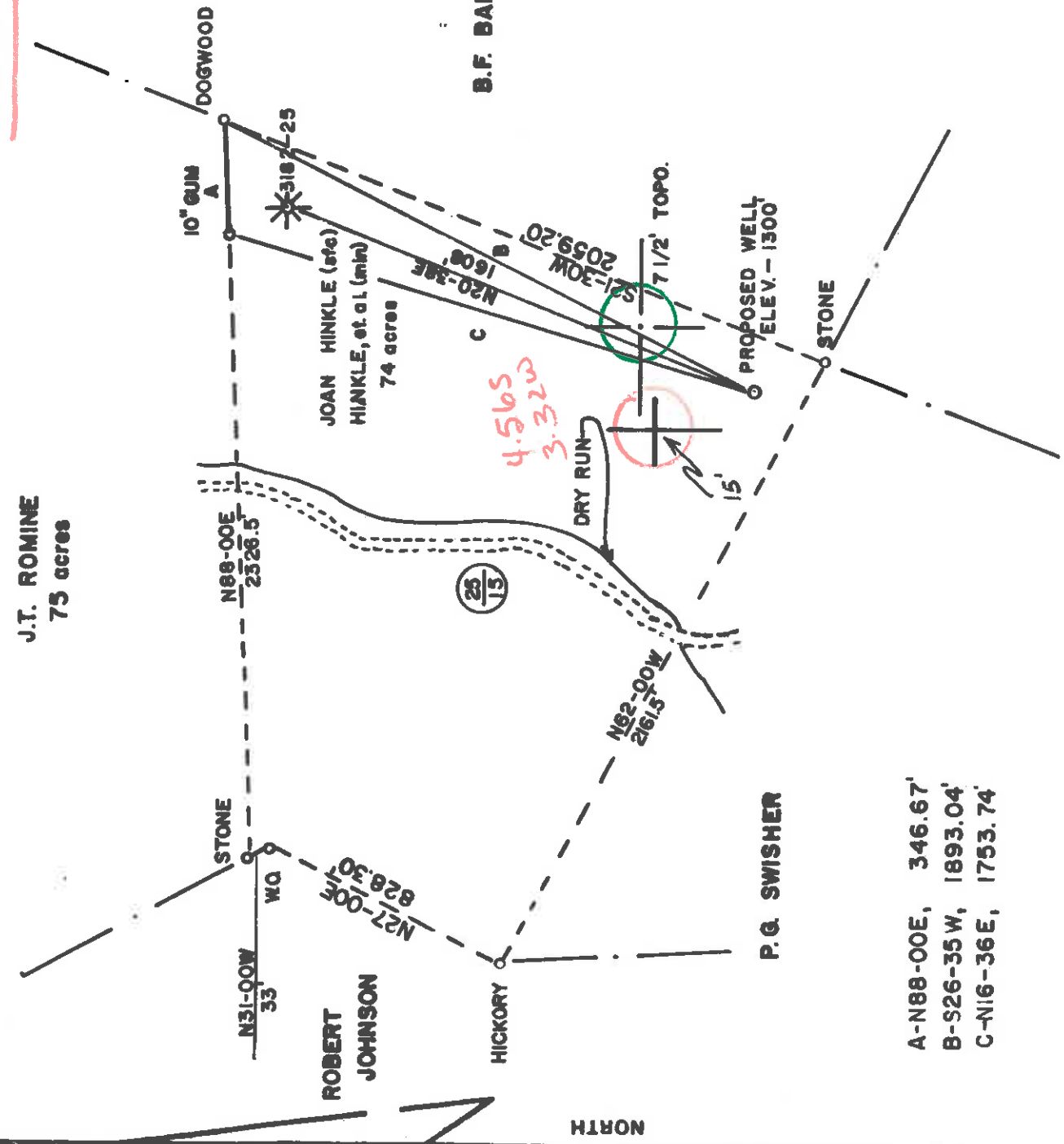
J.T. ROMINE
75 acres

ROBERT JOHNSON

B.F. BANER

P.G. SWISHER

- A-N88-00E, 346.67'
- B-S26-35W, 1893.04'
- C-N16-36E, 1753.74'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1/10 1/100
 PROVEN SOURCE OF ELEVATION USGS BM-985' BIG ISAAC
 USGS BIG ISAAC QUAD

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) [Signature]
 R.P.E. [Signature] L.L.S. 624
Notary Surveys & Consulting, Inc.

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

PLACE SEAL HERE
 DATE JANUARY 24, 19 83
 OPERATOR'S WELL NO. ROMINE-3
 API WELL NO. WK-244
47 - 017 - 3211
 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 1300 WATER SHED DRY FORK
 DISTRICT GREENBRIAR COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 1000 15' NE
 SURFACE OWNER JOAN M. HINKLE ACREAGE 74
 OIL & GAS ROYALTY OWNER JOAN M. HINKLE, et al. LEASE ACREAGE 74

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 DEVONIAN SHALE ESTIMATED DEPTH 5500' 6-6 (147) MAR 28 1983
 WELL OPERATOR KEPCO, INC. DESIGNATED AGENT E.L. STUART Stuart (34)
 ADDRESS 436 BOULEVARD OF THE ALLIES ADDRESS PO BOX 1550

10000-5211

RECEIVED

IV-35
(Rev 8-81)

DEC 8 - 1983

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date September 20, 1983
Operator's Well No. WK-244
Farm Romine
API No. 47 - 017 - 3211

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: 1325' ^{1220' SW} Watershed Dry Fork

District: Greenbrier County Doddridge Quadrangle Big Isaac

COMPANY Keppo, Inc.
ADDRESS 436 Boulevard of the Allies
Pittsburgh, PA 15219

DESIGNATED AGENT E. L. Stuart
ADDRESS Box 1550
Clarksburg, WV 26301

SURFACE OWNER Joan M. Hinkle
ADDRESS 571 Worthington Drive
Bridgeport, WV 26330

MINERAL RIGHTS OWNER Joan M. Hinkle
ADDRESS 571 Worthington Drive
Bridgeport, WV 26330

OIL AND GAS INSPECTOR FOR THIS WORK Stephen
Casey ADDRESS Good Hope Road
Jane Lew, WV

PERMIT ISSUED March 26, 1983

DRILLING COMMENCED May 18, 1983

DRILLING COMPLETED May 29, 1983

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

Casing Tubing Size	Used in Drilling	in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	30'	30'	10 sks Class "A"
9 5/8			
8 5/8	1284'	1284'	225 sks Pozmix, 100 sks Class
7	3162'	1437'	N/A
5 1/2			
4 1/2	5144'	5144'	220 sks Pozmix
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson

Depth of completed well 5617 feet Rotary x / Cable Tools Depth 5053 feet

Water strata depth: Fresh 78 feet; Salt 1640 feet

Coal seam depths: none reported

Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson, Balltown

Pay zone depth 5053, 3650 feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 650 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 8 hours

Static rock pressure 1650 psig (surface measurement) after 48 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

DEC 19 1983
(Continue on reverse side)

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

Halliburton
Perfs: 3650' - 3900' 27 holes; Avg. rate 25 BPM; Avg press. 2300 psi
Benxon 5053' - 5059' 19 holes; Avg. rate 15 BPM; Avg press. 2350 psi

Fractured - June 10, 1983 Halliburton
2 stage frac job

1000 gallons 15% HCl, Nitrogen
WG-12, 15-N, HC-2, KCl

1st stage 28,000 lbs. 20/40
2nd stage 30,000 lbs. 20/40

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Soil			0	10'	
Redrock			10'	18'	
Sand			18'	25'	
Redrock and sand			25'	48'	
Sand and shale			48'	78'	
Sand			78'	107'	Fresh water @ 78'
Sand and shale			107'	195'	
Sand			195'	220'	
Sand and shale			220'	260'	
Redrock and shale			260'	285'	
Sand and shale			285'	375'	
Sand			375'	450'	
Sand and shale			450'	1250'	
Shale			1250'	1820'	Salt water @ 1640'
Sand and shale			1820'	1990'	
Redrock and shale			1990'	2025'	
Sand and shale			2025'	2108'	
Little Lime			2108'	2137'	
Big Lime			2161'	2209'	
Big Injun			2211'	2319'	
Weir			2538'	2563'	
Gordon			2748'	2759'	
5th			2856'	2876'	
Speechley			3461'	3525'	
Balltown			3649'	3913'	
Bradford			4007'	4056'	
Riley			4494'	4554'	
Benson			5050'	5105'	
Alexander			5371'	5465'	
Shale			5465'	5617'	
TD					

(Attach separate sheets as necessary)

Keppo, Inc.
Well Operator

By: *[Signature]*

OPERATIONS MANAGER

Date: September 20, 1983

Notes: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic
detailed geological record of all formations, including
"oil, encountered in the drilling of a well."



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

1) Date: _____, 19____
2) Operator's Well No. _____
3) API Well No. _____ 47 State _____ County _____ Permit _____

DRILLING CONTRACTOR: _____

OIL AND GAS WELL PERMIT APPLICATION

4) WELL TYPE: A Oil _____ / Gas _____ / Production _____
B (If "Gas", Production _____) Underground storage _____ / Deep _____ / Shallow _____
5) LOCATION: Elevation: _____ Watershed: _____
District: _____

6) WELL OPERATOR _____
Address _____
County: _____
11) DESIGNATED AGENT _____
Address _____

7) OIL & GAS ROYALTY OWNER _____
Address _____
12) COAL OPERATOR _____
Address _____

8) SURFACE OWNER _____
Address _____
13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____

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

10) OIL & GAS INSPECTOR TO BE NOTIFIED _____
Address _____
Name _____
Address _____

15) PROPOSED WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
Plug off old formation _____ / Perforate new formation _____
Other physical change in well (specify) _____

16) GEOLOGICAL TARGET FORMATION, _____
17) Estimated depth of completed well, _____ feet
18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ No _____

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.	For drilling	Left in well		
Conductor	3 1/2"						Kinds
Fresh water							Sizes
Coal							Depths set
Intermediate							Perforations:
Production							Top
Tubing							Bottom
Liners							

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: _____ Signed: _____
My Commission Expires _____ Its: _____

OFFICE USE ONLY
DRILLING PERMIT

Permit number _____ 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 _____ unless drilling is commenced prior to that date and prosecuted with due diligence.
Bond: _____ Agent: _____ Plat: _____ Casing Fee _____
Administrator, Office of Oil and Gas

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

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.

WAIVER

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 _____