

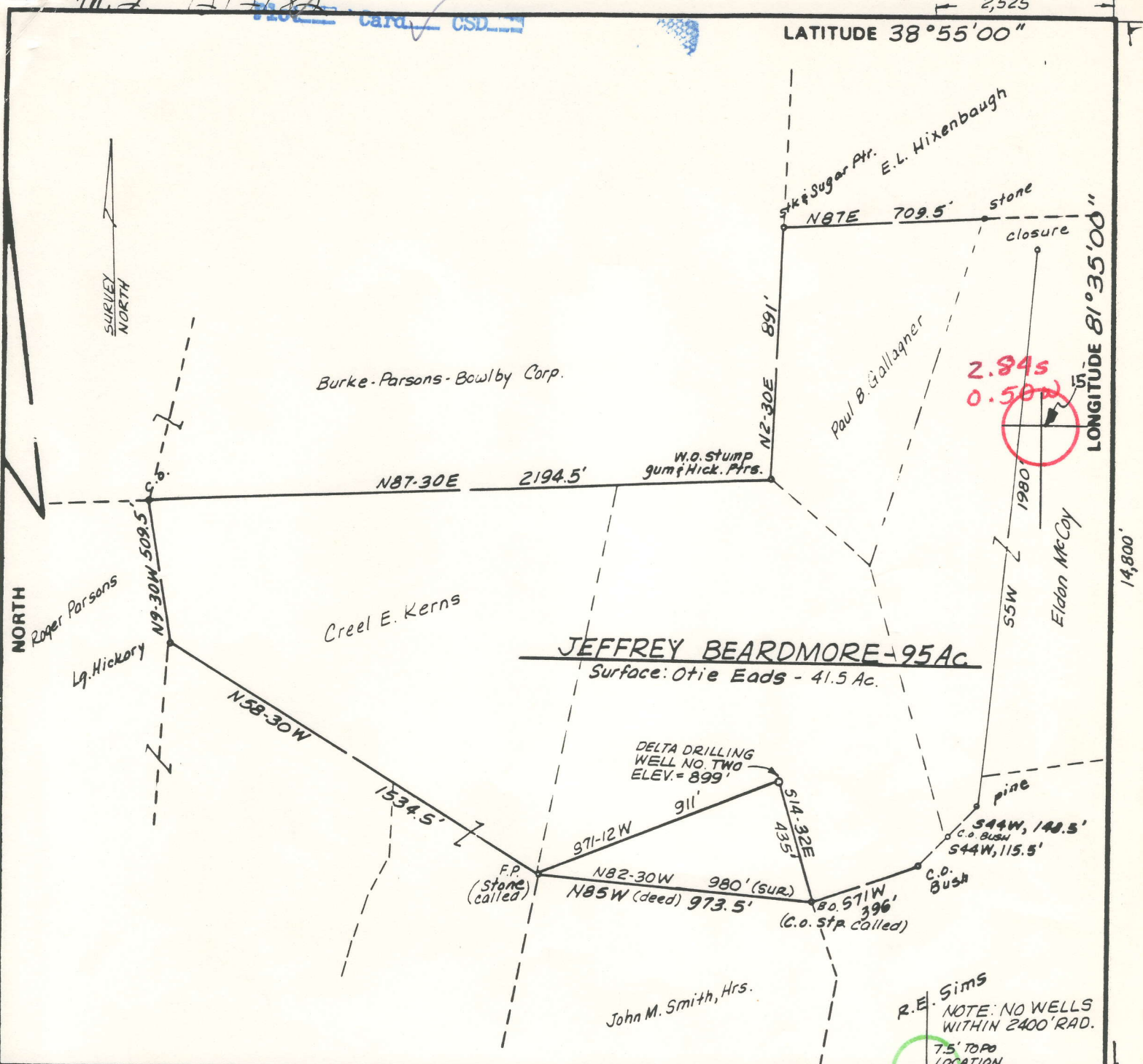
M. J. 12/18/82

PROTECT CARD CSD

LATITUDE 38°55'00"

2,525'

LONGITUDE 81°35'00"



2.94s
0.50w

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION JCT. RDS. 4900' SOUTH OF LOCATION, ELEV. = 775'

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.

Mark C. Echard
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490

R.E. Sims
 NOTE: NO WELLS WITHIN 2400' RAD.
 7.5' TOPO LOCATION

PLACE SEAL HERE

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



DATE DECEMBER 1, 1982
 OPERATOR'S WELL NO. TWO
 API WELL NO. _____
47 - 035 - 1782
 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 899' WATER SHED LOW GAP RUN
 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE LIVERPOOL 7.5' Ripley 15' C
 SURFACE OWNER OTIE EADS ACREAGE 41.5
 OIL & GAS ROYALTY OWNER JEFFREY BEARDMORE LEASE ACREAGE 95
 LEASE NO. _____
 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 66 Elk Poca, (Sissonville) (192)
 TARGET FORMATION BROWN SHALE ESTIMATED DEPTH 5300'
 WELL OPERATOR DELTA DRILLING CO. DESIGNATED AGENT JOHN O. KIZER
 ADDRESS 200 FLEET ST. - SUITE 4005 ADDRESS P.O. BOX 951
PITTSBURGH, PA 15220 CHARLESTON, W.VA. 25323

DEC 13 1982
 DEC 14 1982

RECEIVED



IV-35
(Rev 8-81)

MAY 19 1983

Date 5/6/83
Operator's 2-A
Well No. _____
Farm Beardmore
API No. 47 - 035 - 1782

State of West Virginia
OIL & GAS DIVISION Department of Mines
DEPT. OF MINES Oil and Gas Division

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 ___ / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 899' Watershed _____
District: Washington County Jackson Quadrangle Liverpool 7-5

COMPANY DELTA DRILLING CO., N.E. PROD. DIV.

ADDRESS 200 Fleet St. - Suite 4005, Pittsburgh, PA. 15220

DESIGNATED AGENT J.O. Kizer

ADDRESS P.O. Box 951, Charleston, W. Va. 25323

SURFACE OWNER J. Beardmore

ADDRESS Route 1 - Box 207, Fleming, Ohio 45729

MINERAL RIGHTS OWNER J. Beardmore

ADDRESS same as above

OIL AND GAS INSPECTOR FOR THIS WORK Homer Dougherty
ADDRESS Linden Route - Box #3-A, Looneyville, W. VA. 25259

PERMIT ISSUED December 1, 1982

DRILLING COMMENCED January 31, 1983

DRILLING COMPLETED February 10, 1983

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"		205'	205'
9 5/8			
8 5/8		2301.9'	2300'
7			
5 1/2			
4 1/2		5230'	2530'
3		(Top of cement @ 2700')	
2			
Liners used			

GEOLOGICAL TARGET FORMATION Brown shale Depth 5230 feet

Depth of completed well 5230 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 700 feet; Salt - feet

Coal seam depths: _____ Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 5186 feet *see back*

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

Final open flow 335 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 1050 psig (surface measurement) after 72 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

MAY 31 1983

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

Perforations	75 quality foam volume	Sand	Ave. Injection rate
3186 - 4336 (15)	32,000	50,000#	45 BPM
4090 - 3222 (13)	32,000	50,000#	40 BPM

Huron
Rhinecliff
Cash
Up Res
Huron

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
CLAY			0	10	
SAND & SHALE			10	150	Hole damp
RED ROCK			150	180	
SAND & SHALE			180	680	2" Flow @ 700'
SAND			680	800	
SAND & SHALE			800	900	
SHALE & RED ROCK			900	1460	
SHALE & LIMESTONE			1460	1507	
SALT			1507	1577	
SILT STONE			1577	1680	
SALT			1680	1750	
SILT STONE			1750	1887	
SALT			1887	2010	
BIG LIME			2010	2026	
LOYALHANNA LINE			2026	2122	
SHALE			2122	2146	
POCONO SHALE			2146	2566	
COFFEE SHALE			2566	2583	
BEREA			2583	2584	
DEVONIAN SHALE			2584	T.D.	
				5230	5230 2584 2646

Onon @ 5231-WTL

(Attach separate sheets as necessary)

Well Operator

By: J. Radu
Date: 5/17/03

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 ... encountered in the drilling of a well."



1) Date: DECEMBER 1, 19 82
 2) Operator's Well No. J. BEARDMORE #2
 3) API Well No. 47 State 035 County 1782 Permit

DRILLING CONTRACTOR:

FOX DRILLING COMPANY
GLENVILLE, W. VA. 26351

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 X / Underground storage / Deep / Shallow XX /)
- 5) LOCATION: Elevation: 899 Watershed: LOW GAP RIDG
 District: RAVENSWOOD County: JACKSON Quadrangle: LIVERPOOL
- 6) WELL OPERATOR DELTA DRILLING CO. 11) DESIGNATED AGENT JOHN O. KIZER
 Address 200 FLEET ST., SUITE 4005 Address P.O. BOX 951
PITTSBURGH, PA. 15220 CHARLESTON, W. VA. 25323
- 7) OIL & GAS ROYALTY OWNER JEFFREY BEARDMORE 12) COAL OPERATOR N/A
 Address RTE. 1, BOX 207 Address
FLEMING, OHIO 45729
 Acreage 95 AC.
- 8) SURFACE OWNER OTIE EADS 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address 5329 PIKE STREET Name N/A
SOUTH CHARLESTON, W. VA. 25309 Address
 Acreage 44.5 AC Name
 Address
- 9) FIELD SALE (IF MADE) TO:
 Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name HOPER H. DOUGHERTY Address
LINDEN RT., BOX 3-A
LOONEYVILLE, W. VA. 25259
- 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, BROWN SHALE
 17) Estimated depth of completed well, 5300 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.	New	Used	For drilling	Left in well		
Conductor	13 3/4"					20 FT	20 FT		Kinds
Fresh water	11 3/4"					200 FT	200 FT	To Surface	
Coal									Sizes
Intermediate	8 5/8"					2500 FT	2300 FT	To Surface	
Production	4 1/2"					5300 FT	5300 FT	1000 SCS	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:
 Its:

OFFICE USE ONLY
DRILLING PERMIT

Permit number

19

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 Aug 2, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Administrator, Office of Oil and Gas