

10111 5-31-85

6380'

LATITUDE 39-17-30 N

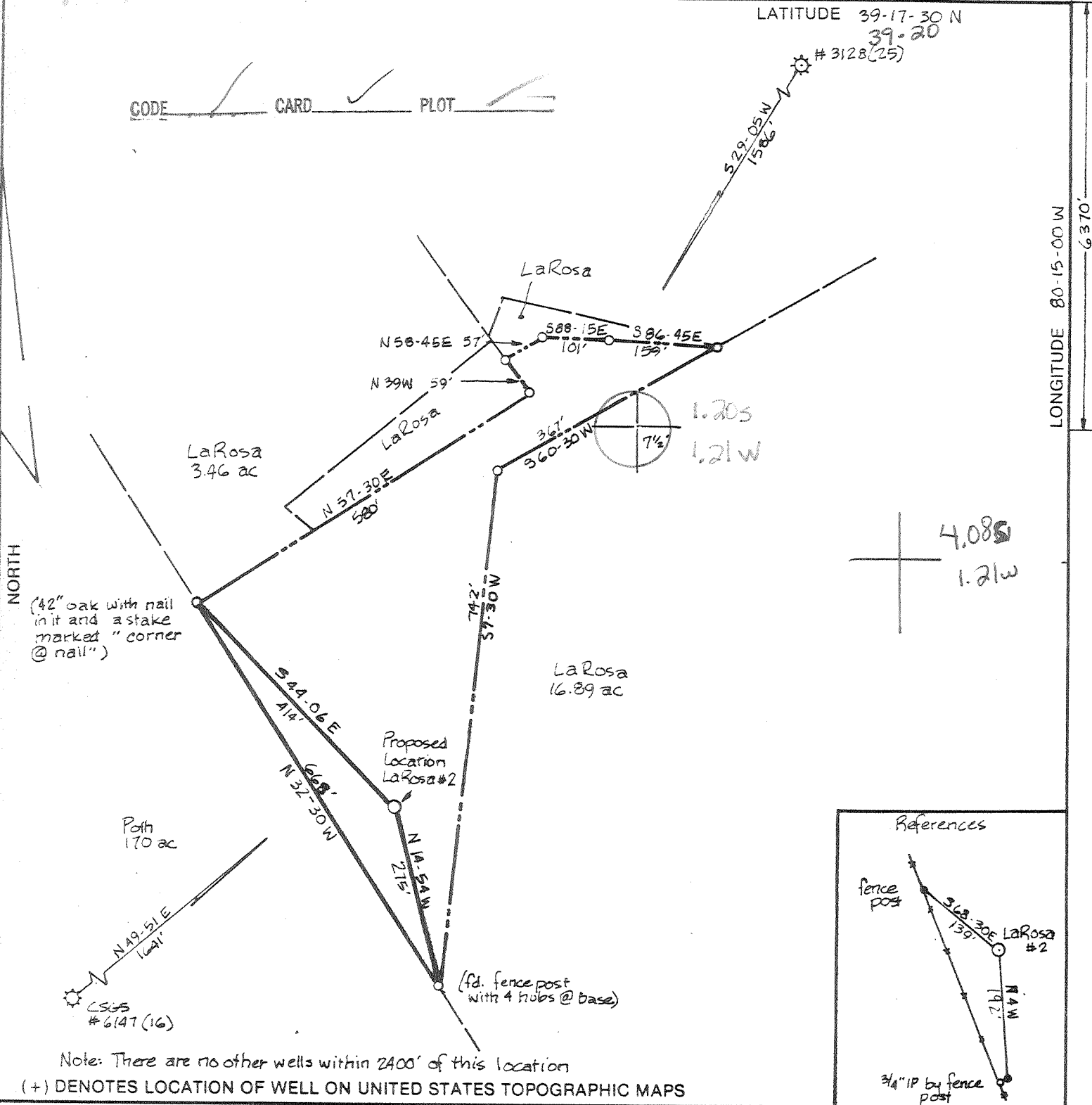
39-20

3128(25)

CODE CARD PLOT

NORTH

LONGITUDE 80-15-00 W



(42" oak with nail in it and a stake marked "corner @ nail")

Poth 170 ac

LaRosa 16.89 ac

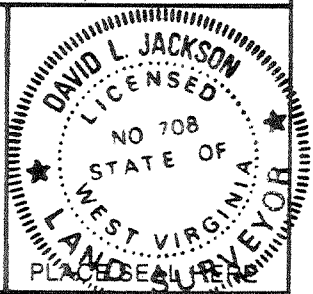
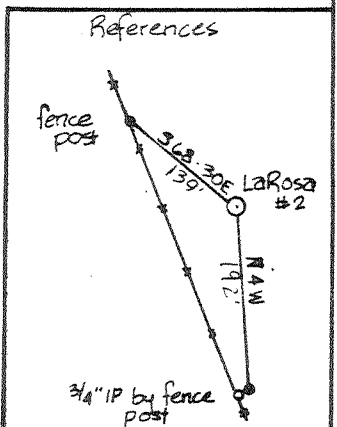
LaRosa 3.46 ac

Note: There are no other wells within 2400' of this location

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Hilltop 1750' NE of location; elev. 1524'

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 L. Jackson
 R.P.E. _____ X.L.S. 708



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE April 10, 1985
 OPERATOR'S WELL NO. LaRosa #2
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1390' WATER SHED Davison Run and Ann Moore Run
 DISTRICT Simpson 8 COUNTY Harrison
 QUADRANGLE Clarksburg 7 1/2' 297 027 SE 9
 SURFACE OWNER James D. LaRosa ACREAGE 4.45
 OIL & GAS ROYALTY OWNER James Joseph LaRosa LEASE ACREAGE 97.974
 LEASE NO. 377500
 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 5000
 WELL OPERATOR Petroleum Development Corp. DESIGNATED AGENT Steven Williams
 ADDRESS P.O. Box 26; Bridgeport, WV 26330 ADDRESS P.O. Box 26; Bridgeport, WV 26330

JUN 10 1985

687

6-4 Bridgeport-Pruntytown (110)

FORM IV-6 (8-78)

COUNTY NAME PERMIT NO.

RECEIVED

IV-35
(Rev 8-81)

JUL 9 - 1985

OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date 7/3/85
Operator's Well No. #2
Farm JAMES LAROSA
API No. 47 - 033 - 3213

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas xx / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production xx / Underground Storage ___ / Deep ___ / Shallow xx /)

LOCATION: Elevation: 1390' Watershed Davisson Run and Ann Moore Run
District: Simpson County Harrison Quadrangle Clarksburg 7 1/2'

COMPANY PETROLEUM DEVELOPMENT CORPORATION
ADDRESS PO BOX 26, BRIDGEPORT, WV 26330
DESIGNATED AGENT STEVEN R. WILLIAMS
ADDRESS PO BOX 26, BRIDGEPORT, WV 26330
SURFACE OWNER JAMES D. LAROSA
ADDRESS 420 BUCKHANNON PIKE, CLARKSBURG, WV 26301
MINERAL RIGHTS OWNER JAMES J. LAROSA
ADDRESS 420 BUCKHANNON PIKE, CLARKSBURG, WV 26301
OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN CASEY
ADDRESS RP 2, BOX 232-D, JANE LEW, WV 26378
PERMIT ISSUED MAY 31, 1985
DRILLING COMMENCED JUNE 7, 1985
DRILLING COMPLETED JUNE 12, 1985
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"	18	18	cement to surface
9 5/8			
8 5/8	1176	1176	290 sks.
7			
5 1/2			
4 1/2	4764	4764	510 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 5000 feet
Depth of completed well 4791 feet Rotary xx / Cable Tools _____
Water strata depth: Fresh 48 feet; Salt n/a feet
Coal seam depths: 48'; 88'; 344' Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation BENSON Pay zone depth 4654-70 feet
Gas: Initial open flow not taken Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 539 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 1800 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation BIG INJUN Pay zone depth 1719-24 feet
Gas: Initial open flow not taken Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 959 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 390 psig (surface measurement) after 72 hours shut in

539
959
1498
MCF
FOR
FOR WELL

JUL 22 1985

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
PERFORMED 2-STAGE GELLED H2O FRAC W/N2 ASSIST.

1ST STAGE: PERFORATED BENSON WITH 14 SHOTS (4654'-70'), USED 15,000# OF 80/100 SAND, 50,000# OF 20/40 SAND AND 71,000 SCF OF N2.

2ND STAGE: PERFORATED BIG INJUN WITH 13 SHOTS (1719'-24'). USED 35,000# OF 20/40 SAND AND 66,000 SCF OF N2.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
KB - GL			0	10	
sand, shale, RR			10	48	1/2" stream H2O @ 48'
coal			48	52	coal seam @ 48';88';344'
sand, shale, RR			52	88	
coal			88	95	
sand, shale, RR			95	344	
coal			344	348	
sand, shale, RR			348	1586	
Big Lime			1586	1654	
Big Injun			1654	1748	
sand, shale			1748	2108	gas check @ 1768 4/10 1" H2O
50 ft			2108	2139	
sand, shale			2139	2160	
30 ft			2160	2172	
sand, shale			2172	2196	gas check @ 2200 4/10 1" H2O
Gordon Stray			2196	2258	
sand, shale			2258	2271	
Gordon			2271	2292	
sand, shale			2292	2330	
3rd			2330	2367	gas check @ 2354 ordor
sand, shale			2367	2418	
4th			2418	2446	
sand, shale			2446	2474	
4th A			2474	2498	
sand, shale			2498	2609	gas check @ 2568 no show
5th			2609	2652	
sand, shale			2652	3000	gas check @ 2660 4/10 1" H2O
Upper Speechley			3000	3232	gas check @ 3111 4/10 1" H2O
sand, shale			3232	3313	
Speechley			3313	3327	
sand, shale			3327	3448	gas check @ 3423 2/10 2" H2O
Balltown			3448	3568	gas check @ 3546 10/10 1" H2O
sand, shale			3568	3874	
Bradford			3874	3972	
sand, shale			3972	4439	
Riley			4439	4508	gas check @ 4500 6/10 1" H2O
sand, shale			4508	4646	gas check @ 4660 4/10 1" H2O
Benson			4646	4703	gas check @ 4690 4/10 1" H2O
sand, shale			4703	4780	gas check @ 4780 4/10 1" H2O
			4780	4791	Miller TD Logger TD

(Attach separate sheets as necessary)

Benson TD
4780

PETROLEUM DEVELOPMENT CORPORATION

Well Operator

By:

John R. W.

Date:

JULY 8, 1985

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."

FILE COPY
RECEIVED

MAY 30 1985



1) Date: _____, 19____
2) Operator's Well No. LaRosa #2
3) API Well No. 47 -033-3213
State _____ County _____ Permit _____

**OIL & GAS DIV.
DEPT. OF MINES**

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil _____ / Gas XX /
B (If "Gas", Production XX / Underground storage _____ / Deep _____ / Shallow XX /)
- 5) LOCATION: Elevation: 1390 Watershed: Davisson Run and Ann Moore Run
District: Simpson County: Harrison Quadrangle: Clarksburg 7 1/2'
- 6) WELL OPERATOR Petroleum Development Corp. 7) DESIGNATED AGENT Steven R. Williams
Address P.O. Box 26, 103 E. Main St. Bridgeport, WV 26330 Address P.O. Box 26, 103 E. Main St. Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 38200
Name Stephen Casey
Address Rt. #2, Box 232-D Jane Lew, WV 26378
- 9) DRILLING CONTRACTOR:
Name _____
Address _____
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper _____ / Redrill _____ / Stimulate X /
Plug off old formation _____ / Perforate new formation _____
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Benson
- 12) Estimated depth of completed well, 5000 feet
13) Approximate strata depths: Fresh, 40 - 940 feet; salt, 1670 feet.
14) Approximate coal seam depths: 358 Is coal being mined in the area? Yes _____ / No X /
- 15) 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	113/4	H-40	42#	X		30	-	-	Kinds
Fresh water									
Coal									Sizes
Intermediate	85/8	J-55	20/23#	X		1150	1150	cement to surface (neat cement)	
Production	4 1/2	J-55	10.5#	X		5000	5000	400 sks	Depths set
Tubing									
Liners									Perforations: Top _____ Bottom _____

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-033-3213 Date May 31 19 85

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires May 31, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>116</u>	<u>MH</u>	<u>MH</u>	<u>MH</u>	<u>837-223</u>

Margaret J. Hase
Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File