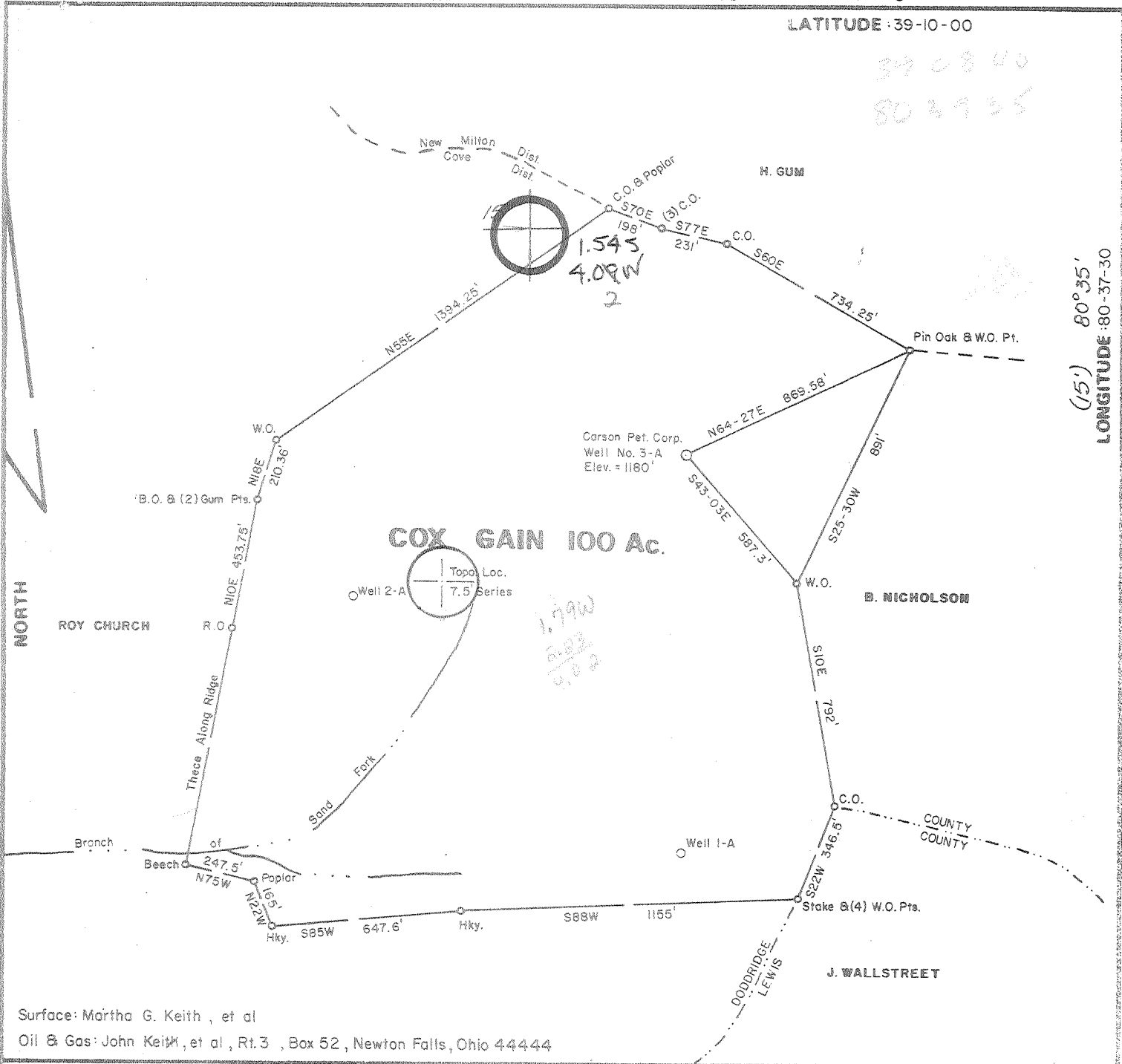


39 08 40
80 29 35



(15) 80°35'
LONGITUDE 80-37-30

Surface: Martha G. Keith, et al
Oil & Gas: John Keith, et al, Rt. 3, Box 52, Newton Falls, Ohio 44444

FILE NO. _____
DRAWING NO. _____
SCALE 1 inch = 500 feet
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION Top Knob 1400' NW of Location, Elev. 1368'

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

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE AUGUST 21, 19 80
OPERATOR'S WELL NO. THREE - A
API WELL NO. _____
47 - 017 - 2821
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 1180 WATER SHED SAND FORK
DISTRICT COVE COUNTY DODDRIDGE
QUADRANGLE NEW MILTON 7.5' VAD15 15' C
SURFACE OWNER MARTHA G. KEITH, et al ACREAGE 100
OIL & GAS ROYALTY OWNER JOHN KEITH, et al LEASE ACREAGE 100
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 ___
TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5500
WELL OPERATOR CARSON PETROLEUM CORP. DESIGNATED AGENT MR. CLAY JOHNSON
ADDRESS BOX 133 SAND FORK, W.V. 26430 ADDRESS BOX 133 SAND FORK, W.V. 26430
6-0 NEW MILTON 307
OCT 9 1980

FORM IV-35
(Obverse)

Operator's
Well No. Cox-Gain #3A

WELL OPERATOR'S REPORT 24

API Well No. 47 - 017 - 2821
State County Permit

[08-78]

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: 1180' Watershed: Sand Fork
District: Cove County: Doddridge Quadrangle: New Milton

WELL OPERATOR Carson Petroleum Corporation DESIGNATED AGENT Lowell M. Johnson
Address P O Box 133 Address P O Box 133
Sand Fork, WV 26430 Sand Fork, WV 26430

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

NOV 11 1980

PERMIT ISSUED ON September 2, 1980 OIL & GAS INSPECTOR FOR THE STATE OF WEST VIRGINIA

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED
Name Paul Garrett
Address Clarksburg, WV
622-3871

GEOLOGICAL TARGET FORMATION: Elk Depth 5446 feet

Depth of completed well, 5601 feet Rotary X / Cable Tools ___

Water strata depth: Fresh, 88 feet; salt, ___ feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced September 29, 1980, and completed October 6, 1980

LOGGING AND TUBING PROGRAM

LOGGING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds
Fresh water	8 5/8					1307'	1307'	To surface
Intermediate								Sizes
Production	4 1/2						5505	175 sks
Perforations								Depth set
								Perforations:
								Top Bottom

PRODUCTION FLOW DATA

Producing formation Benson Pay zone depth 5233 feet
Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, ___ Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, ___ hours
Static rock pressure, ___ psig (surface measurement) after ___ hours shut in

[If applicable due to multiple completion--]

Second producing formation Elk Alexander Pay zone depth 5446 feet
Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 520,000 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1130 psig (surface measurement) after 36 hours shut in

NOV 25 1980

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

Fractured October 11, 1980

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
2500 lb. breakdown
495 bbls water
20.6 BPM at 2100 lb.

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
430 bbls water
22.6 BPM at 2200 lb.

Perfs - 5416 - 5446, 7 holes

Perfs - 5116 - 5133, 6 holes

LOG

FORMATION	Color	Hard or Soft	2c Top Feet	Bottom Feet	Remarks Including indication of oil fresh and salt water, coal, oil and gas
Soil			0	40	
Sand & shale			40	259	Water 88'
Coal			259	265	
Sand			265	575	
Shale & red rock			575	835	Water 737'
Coal			835	842	
Shale & red rock			842	1307	
Sand & shale			1307	1806	Oil & water 1743'
Sand			1806	2200	
Lime			- 2200	2220	
Pencil cave			2220	2246	
Lime			- 2246	2288	
Injun sand			2288	2397	
Sand & shale			2397	2646	
Gantz sand			- 2646	2662	Gas 2650'
Sand & shale			2662	5101	
Benson sand			- 5101	5109	
Sand & shale			5109	5400	
Elk sand Alex.			5400	5510	
Sand & shale			5510	5601	
Total depth			5601		

1982 PROD 2452 MCF in 150 days in the

(Attach separate sheets to complete as necessary.)

Carson Petroleum Corporation
Well Operator

By Lawell M. Johnson
Its Agent

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."

COPY

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Cox-Gain #3A

API Well No. 47 - 017 - 2821
State County Permit

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 1180' Watershed: Sand Fork
District: Cove County: Doddridge Quadrangle: New Milton

WELL OPERATOR Carson Petroleum Corporation
Address P O Box 133
Sand Fork, WV 26430

DESIGNATED AGENT Clay Johnson
Address P O Box 133
Sand Fork, WV 26430

OIL & GAS
ROYALTY OWNER John Keith, et al
Address Route 3, Box 52
Newton Falls, OH 44444
Acreage 100

COAL OPERATOR N/A
Address: _____

SURFACE OWNER Martha Keith, et al
Address Route 3, Box 52
Newton Falls, OH 44444
Acreage 100

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name N/A
Address _____

FIELD SALE (IF MADE) TO:
Name N/A
Address _____

Name N/A
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address Clarksburg, WV 26301
622-3871

COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
Address _____

RECEIVED

SEP - 2 1980

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated December 31, 1979, to the undersigned well operator from John Keith, et al [said deed, lease, or other contract has been recorded.]

Recorded on January 23, 1980, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 113 at page 307. A permit is requested as follows:

PROPOSED WORK: Drill X / 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 action 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.

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 before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
5 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3097

Carson Petroleum Corporation
Well Operator

By Jaura L. Cochran
Secretary

Y903

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DILLING CONTRACTOR (IF KNOWN) Union Drilling, Inc.

Address Drawer 40

Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Big Injun

Estimated depth of completed well, 2370 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 200 feet; salt, feet.

Approximate coal seam depths: None Is coal being mined in the area? Yes / No X /

DRILLING AND TUBING PROGRAM

DRILLING 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	Kinds
Conductor									
Fresh water	8 5/8					1200'	1200'	To surface	
Intermediate									
Production	4 1/2						2370'		Depths set
Logging									
Packers									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 this permit must be posted at the well site.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5-5-81

[Signature]
Deputy Director - Oil & Gas Division

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.

_____, 19____

By _____
Its _____

[Handwritten signature]