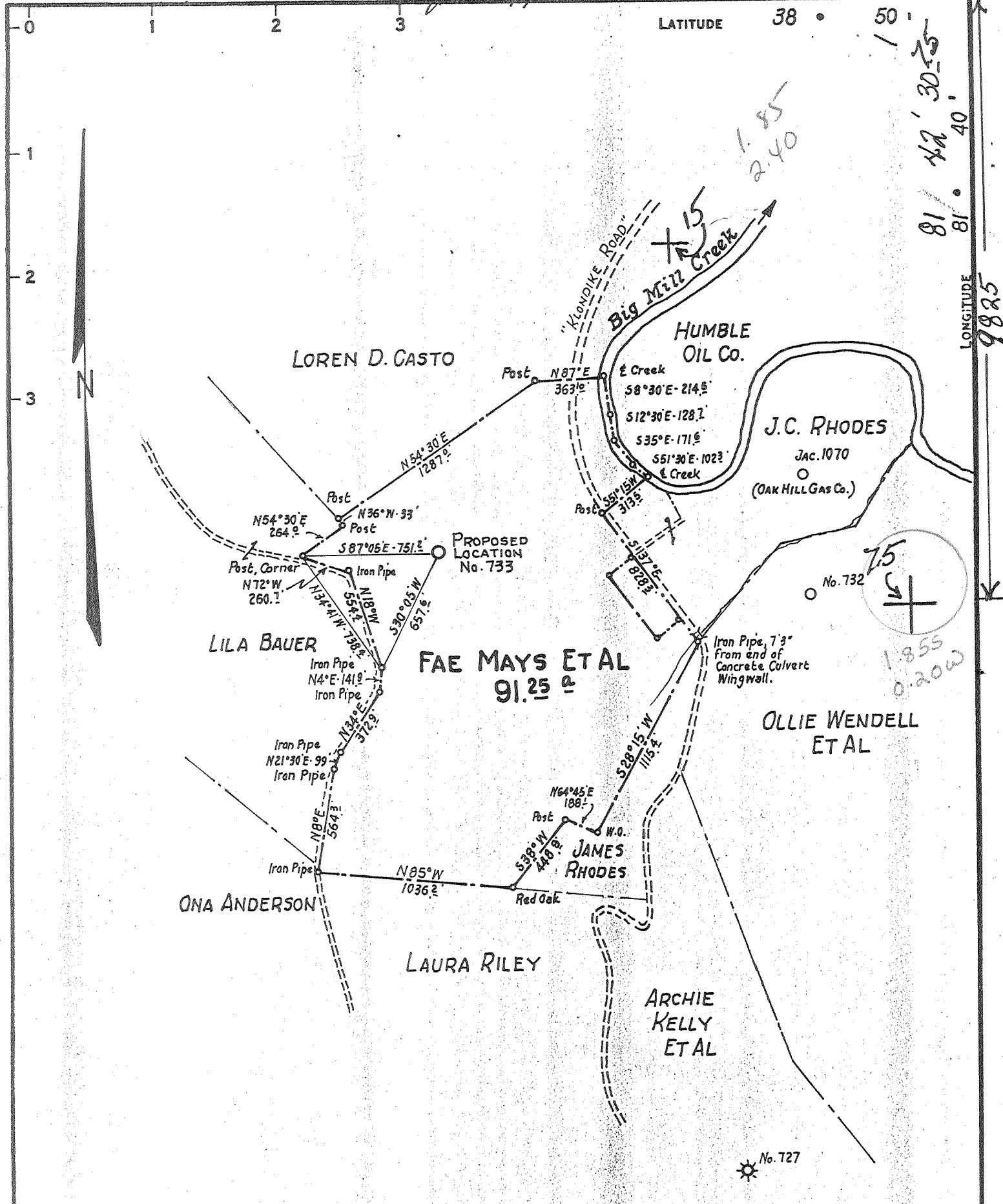


Jan 6/1/88

1050



CERTIFICATE

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."
 Minimum degree of accuracy is one part in 200

Signed W. S. Shively SURVEYOR

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY QUINOCO PETROLEUM INC. N.B. No. 92 Pa. 67
 ADDRESS PO BOX 1433 CHARLESTON, W.VA. 25325
 FARM FAE MAYS ET AL
 MAP OV 25 ACRES 91.25 LEASE NO. 2401-2402
 WELL (FARM) NO. 1 SERIAL NO. 733
 ELEVATION (SPIRIT LEVEL) 831.6
 QUADRANGLE RIPLEY S.W. / RIPLEY 7.5
 COUNTY JACKSON DISTRICT RIPLEY 3
 POINT OF PROVEN ELEVATION U.S. G.S. BM-H107 (Elev. 931.0)
 This BM is on Stone Ridge Road, Approx. 3000' So. West of Ripley
 FILE NO. _____ DRAWING NO. _____
 DATE AUGUST 31, 1964. SCALE 1" = 660'

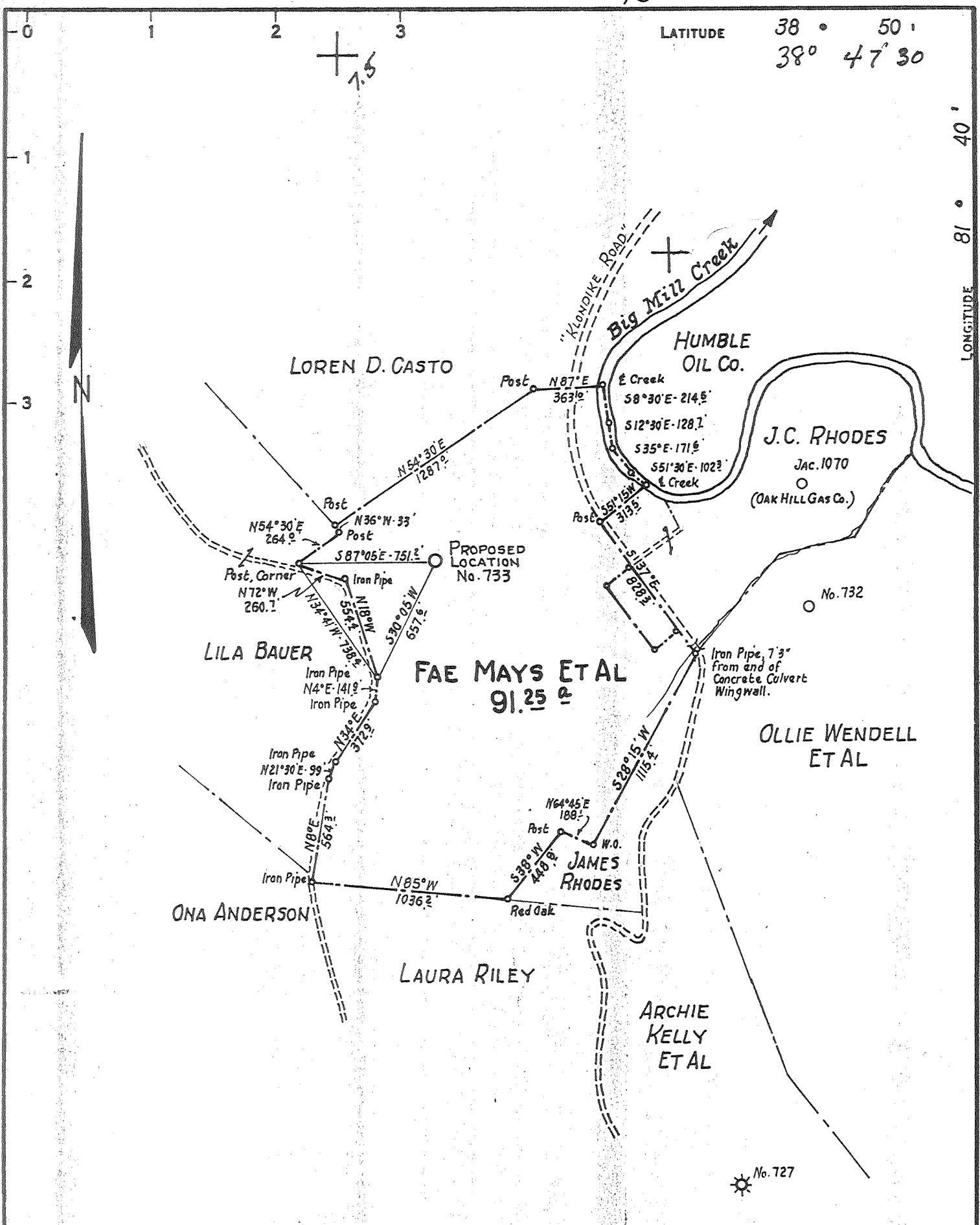
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. JAC-1076-PP-Frac
 + DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

DEEPWELL owwo 1039

47-025

JUN 3 1988

JACK 1076-PP-Frac.



CERTIFICATE

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Minimum degree of accuracy is one part in 200

Signed *W. S. Shively* SURVEYOR

Devon Energy Co. N.B. No. 92 Pg. 67

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY COMMONWEALTH GAS CORPORATION
 ADDRESS P.O. BOX 1433 CHARLESTON, W.VA.
 FARM FAE MAYS ET AL
 MAP OV 25 ACRES 91.25 LEASE NO. 2401-2402
 WELL (FARM) NO. 1 SERIAL NO. 733
 ELEVATION (SPIRIT LEVEL) 831.0
 QUADRANGLE RIPLEY S.W. / RIPLEY 7.5
 COUNTY JACKSON DISTRICT RIPLEY
 POINT OF PROVEN ELEVATION U.S. G.S. BM. H107 (Elev. 931.0)
 This BM is on Stone Ridge Road, Approx. 3000' So. West of Ripley
 FILE NO. _____ DRAWING NO. _____
 DATE AUGUST 31, 1964. SCALE 1" = 660'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP

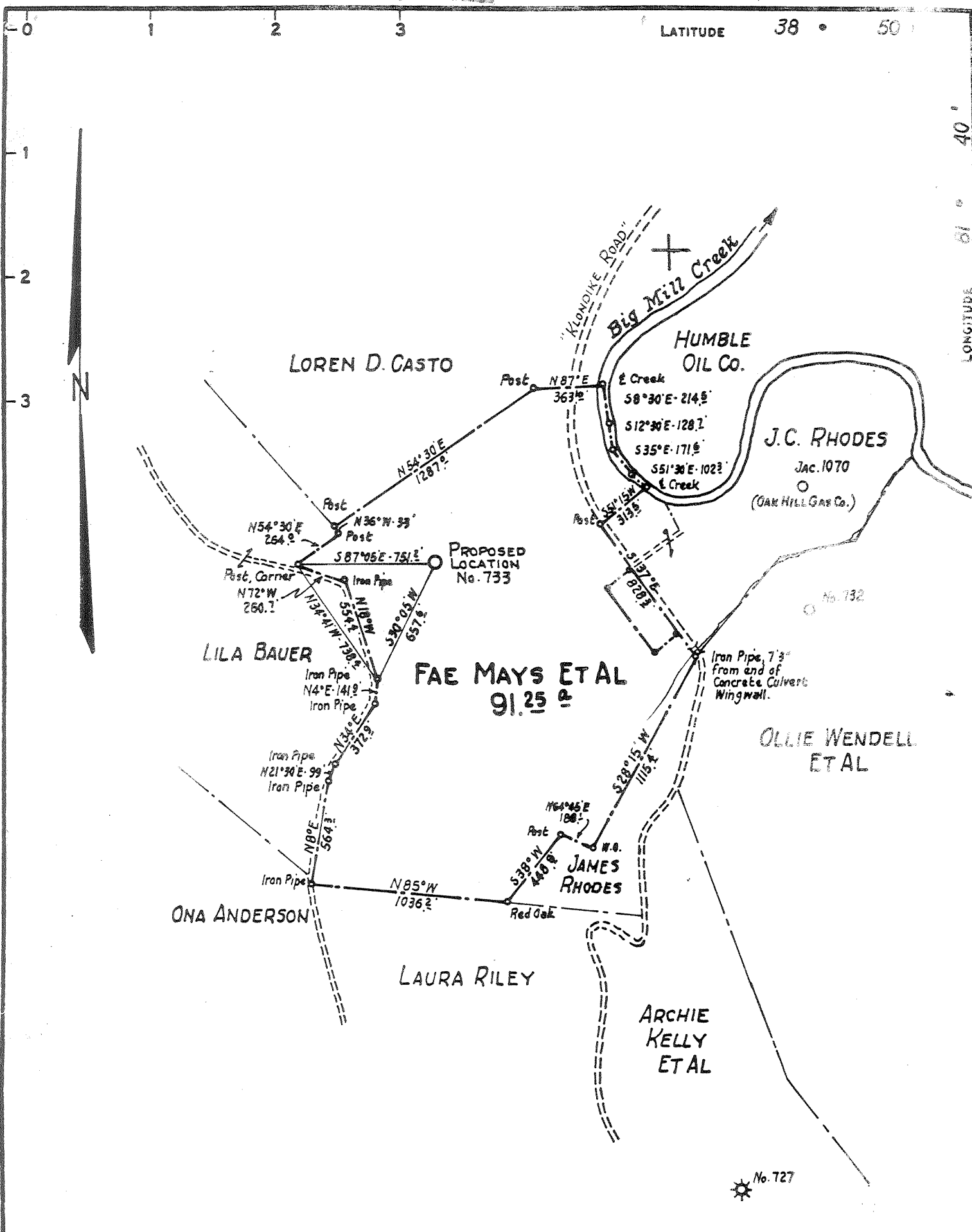
FEB 16 1968

FILE NO. JAC-1076-PP

PP: CANCELLED

+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.



- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

CERTIFICATE

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Minimum degree of accuracy is one part in 200

Devon Energy Co. N.B. No. 92 Pg. 67

Signed W. S. Shively SURVEYOR

COMPANY COMMONWEALTH GAS CORPORATION

ADDRESS P.O. BOX 1433 CHARLESTON, W.VA.

FARM FAE MAYS ET AL

MAP OV 25 ACRES 91.25 LEASE NO. 2401-2402

WELL (FARM) NO. 1 SERIAL NO. 733

ELEVATION (SPIRIT LEVEL) 831.6

QUADRANGLE RIPLEY S.W.

COUNTY JACKSON DISTRICT RIPLEY

POINT OF PROVEN ELEVATION U.S. G.S. BM. H107 (Elev. 931.0)
This BM is on Stone Ridge Road, Approx. 3000' So. West of Ripley

FILE NO. _____ DRAWING NO. _____

DATE AUGUST 31, 1964. SCALE 1" = 660'

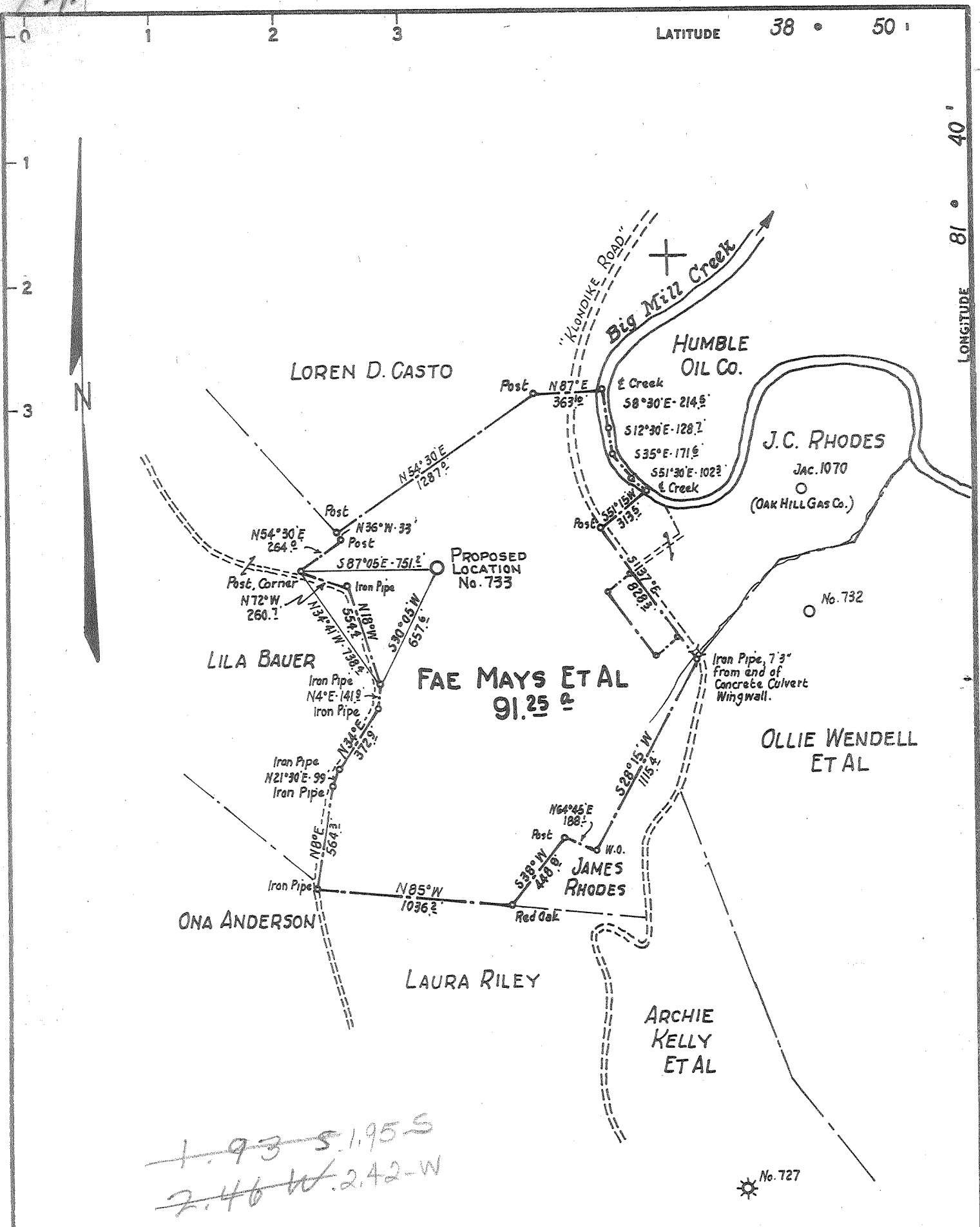
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP

FILE NO. JAC-1076-PP

† DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

— DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

47-0235



1.93 S. 1.95 S
2.46 W. 2.42 W

CERTIFICATE

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Minimum degree of accuracy is one part in 200

Signed *W. S. Shively* SURVEYOR

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

9 NC (H-5-2) N.B. No. 92 Pg. 67

COMPANY	COMMONWEALTH GAS CORPORATION		
ADDRESS	P.O. BOX 1433 CHARLESTON, W.VA.		
FARM	FAE MAYS ET AL		
MAP	OV 25	ACRES	91.25
		LEASE NO.	2401-2402
WELL (FARM) NO.	1	SERIAL NO.	733
ELEVATION (SPIRIT LEVEL)	831.6		
QUADRANGLE	RIPLEY-S.W.		
COUNTY	JACKSON	DISTRICT	RIPLEY
POINT OF PROVEN ELEVATION	U.S. G.S. BM-H107 (Elev. 931.0)		
	This BM is on Stone Ridge Road, Approx. 3000' So. West of Ripley		
FILE NO.		DRAWING NO.	
DATE	AUGUST 31, 1964.		SCALE 1" = 660'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP
FILE NO. JAC-1076
+ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.
- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

No Samples 6-6-311 Deep Well

WR-35

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OCT 23 1989



State of West Virginia

DEPARTMENT OF ENERGY

Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date October 20, 1989

Operator's

Well No. #733

Farm Fae Mays

API No. 47 - 035 - 1076 Frac

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 /)

LOCATION: Elevation: 831.6 Watershed Big Mill Creek
District: Ripley County Jackson Quadrangle Ripley

COMPANY Quinoco Petroleum, Inc.
ADDRESS 1207 Quarrier St., Charleston, WV 25301
DESIGNATED AGENT Bill W. Backus
ADDRESS Same as above
SURFACE OWNER Sterling Ocheltree
ADDRESS P. O. Box 133, Ripley, WV 25271
MINERAL RIGHTS OWNER Sterling Ocheltree, et al
ADDRESS Same
OIL AND GAS INSPECTOR FOR THIS WORK Jerry
Tephabock ADDRESS Rt.1, Box 101-A, Ripley, WV
PERMIT ISSUED 6-1-88
Worked
~~DRILLING COMMENCED~~ 6-2-88
Worked
~~DRILLING COMPLETED~~ 6-8-88

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size			
20-16 Cord.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION Brown Shale/Berea Depth feet
Depth of completed well feet Rotary / Cable Tools X
Water strata depth: Fresh - feet; Salt feet
Coal seam depths: - Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 4067-4254 feet
Gas: Initial open flow - Mcf/d Oil: Initial open flow Bbl/d
Final open flow 45/612 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 800 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Berea Pay zone depth 2500-04 feet
Gas: Initial open flow - Mcf/d Oil: Initial open flow Bbl/d
Final open flow 567 Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests 6 hours
Static rock pressure 920 psig (surface measurement) after 18 hours shut in

new zones completed

807 27 1989

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

- 6/2/88 Set drillable bridge plug at 4800' with 10' CalSeal cement on top of plug and perforated 4449-4455 with 4 shots.
- 6/6/88 NOWSCO cemented behind 4 1/2" with 327 cubic feet foam cement
- 6/9/88 Ran cement bond log. TOC 4016'. Perforated 4067' to 4254' with 23 shots.
- 6/10/88 Foam frac Brown Shale with 370 sxs 20/40 and 755 mScf N-2 with 129 bbls water. Job screened out. Flowed well back.
- 4/28/89 Set drillable bridge plug at 2600'. Perforated 2590-2591' with 4 shots. Halliburton cemented behind 4 1/2" with 75 sxs neat cement.
- 5/31/89 Ran cement bond log - TOC 2339'. Perforated 2500-2504' with 32 shots.
- 6/2/89 Halliburton fracture treated Berea with 452 bbls gelled water, 450 sxs 20/40 sand and 108 mScf N-2.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
SEE ORIGINAL					
	UD	2520			
	HJC	3720			
	J-A	4246			
	Rh	4657			

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Quinoco Petroleum, Inc.
Well Operator

By: *Bill W. Backus*

Date: Bill W. Backus - District Manager
October 20, 1989

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."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 17

Rotary
Spudder
Cable Tools
Storage

Quadrangle Ripley S. W.

Permit No. Jac. 1076

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Commonwealth Gas Corporation
Address P. O. Box 1133, Charleston, W. Va. 25325
Farm Fas Mays et al Acres 91.25
Location (waters) Big Mill Creek
Well No. 733 Elev. 831.6
District Ripley County Jackson
The surface of tract is owned in fee by Fas Mays
Ripley, West Va. Address _____
Mineral rights are owned by Fas Mays and
Mrs. Tina Dodson Address 1831 Oak Ridge Dr.
Charleston, W. Va.
Drilling commenced 9-10-64
Drilling completed 1-27-65
Date Shot _____ From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure 1440 lbs. 65 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	35'1"	35'1"	Kind of Packer _____
13	808'6"		
10	1242'4"	1242'4"	Size of _____
8 1/2	2155'8"	2155'8"	
6 3/4			Depth set _____
5 3/16			
2 1/4	5078'6"	5078'6"	Perf. top _____
2	5065'10"	5065'10"	Perf. bottom _____
Liners Used	Tubing set at 5087'		Perf. top <u>5059'</u>
	(McCullough Log)		Perf. bottom <u>5065'10"</u>

CASING CEMENTED 8" SIZE No. Ft. _____ Date _____
10 bags cement behind 8" casg. 95 bags cement
behind 4" casing
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

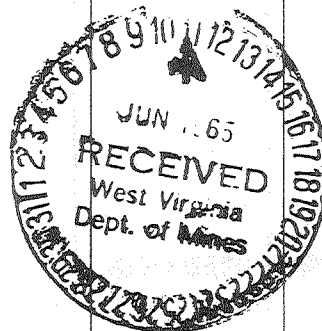
WELL FRACTURED Jan. 1, 1965 from 5031 to 5038 (McCullough Log) with 800 bbls water

RESULT AFTER TREATMENT 1,214,000 cu. ft. (60,000 cu. ft. natural)

ROCK PRESSURE AFTER TREATMENT 1440 - 65 hr.

Fresh Water 370 Feet Salt Water 1759-1769 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas, or Water	Depth	Remarks
Surface			0	34			
Red mud			34	200			
Slate			200	297			
Shale			297	301			
Red rock			301	315			
Sand			315	380	Water	370	1-1/2 bailer per hr.
Slate			380	395			
Red mud			395	416			
Slate			416	573			
Broken sand			573	585			
Red rock			585	640			
Slate-shells			640	702			
Sand			702	710			
Slate-shells			710	722			
Sand			722	765			
Slate-shells			765	780			
Red rock			780	802			
Slate-shells			802	830			
Sand			830	860			
Red rock			860	933			
Blue slate			933	972			
Red rock			972	1035			
Blue slate			1035	1054			
Lime shell			1054	1070			
Blue slate			1070	1120			
Sand			1120	1135			
Slate-shells			1135	1210			
Sand			1210	1255			
Slate-shells			1255	1270			



035 1076 Frac

Issued 6/1/88 Expires 6/1/90

FORM WW-2B

Page 3 of 6

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: ¹⁰³⁹ Quinoco Petroleum, Inc. NO 475, 3, 577
- 2) Operator's Well Number: Fae Mays 733 (47-035-1076) 3) Elevation: 831.6
- 4) Well type: (a) Oil or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Berea/Brown Shale
- 6) Proposed Total Depth: 4800 feet Plug Back
- 7) Approximate fresh water strata depths: 370'
- 8) Approximate salt water depths: 1759'
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Plug back, recement 4 1/2", perforate and fracture the Brown Shale and Berea formations
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16"	35'			35'	
Fresh Water	10"	1242'			1242'	
Coal						
Intermediate	8"	2155'			2155'	
Production	4 1/2"	5078'			5078'	From 4450' To 2400'
Tubing						
Liners						

Existing

PACKERS : Kind _____
Sizes _____
Depths set _____

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For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1557

Fee(s) paid: 15 Well Work Permit 15 Reclamation Fund 15 WPCP

Plat 15 WW-9 15 WW-2B 15 Bond 50 Blanket Agent

(Type)

7/23

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Page 1 of 2
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: MAY 30 1988
Operator's well number
Fae Mays 733
API Well No: 47 - 035 - 1076-PP-FRA
State - County - Permit

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

- | | |
|---|---|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Sterling Ocheltree</u>
Address <u>P. O. Box 133</u>
<u>Ripley, WV 25271</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:
Name <u>None</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name <u>Sterling Ocheltree</u>
Address <u>P. O. Box 133</u>
<u>Ripley, WV 25271</u>
Name <u>Wilma Higginbotham</u>
Address <u>1831 Oakridge Drive</u>
<u>Charleston, WV 25311</u></p> <p>(c) Coal Lessee with Declaration
Name <u>N/A</u>
Address _____</p> |
| <p>6) Inspector <u>Jerry Tephabock</u>
Address <u>Route 1, Box 101-A</u>
<u>Ripley, WV 25271</u>
Telephone (304)- <u>372-6805</u></p> | |

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 6 on the above named parties, by:

Personal Service (Affidavit attached)

_____ Certified Mail (Postmarked postal receipt attached)

_____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Quinco Petroleum, Inc.
By: [Signature]
Its: District Manager
Address 1207 Quarrier Street, P. O. Box 1433
Charleston, West Virginia 25325
Telephone 304/342-6193

Subscribed and sworn before me this 30TH day of MAY, 1988

[Signature]
My commission expires December 9, 1997

Notary Public