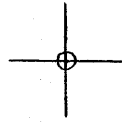


LATITUDE 39° 37' 30"



LONGITUDE 80° 35' 00"

7'5 OGIS topo location

7.5' loc 1.025 15' loc _____
 0.56w (calc.) _____

Company _____

Farm _____

Quad BIG RUN 7 1/2'

County WETZEL

District GRANT

WELL LOCATION MAP

File No. 103 - 0674

(045)

HOPE NATURAL GAS COMPANY.

LOCATION FOR WELL No. 646

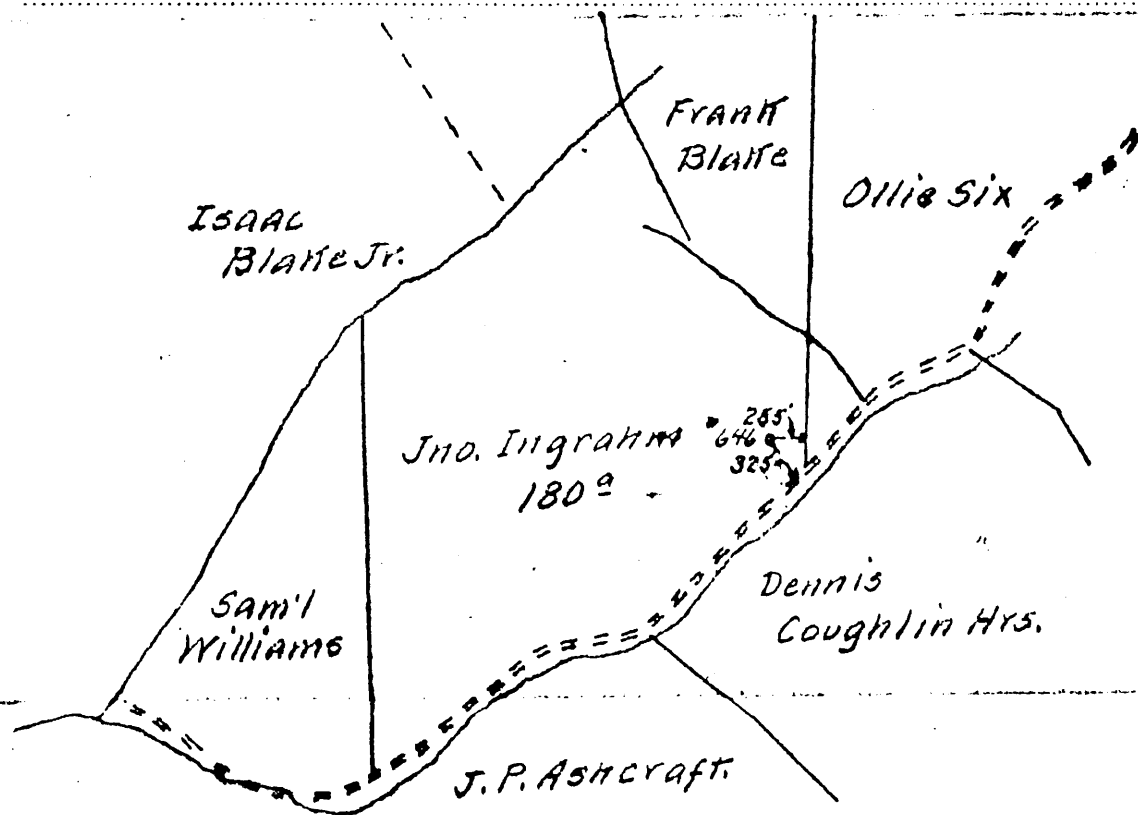
Littleton DISTRICT

On Jno. Ingraham Farm, on waters of Four Mile Run
District, Grant District, Netzel County, West Virginia.

Lease No. — Acres 332 N. 12 S. — E. 2 W. —

Scale, one inch equals 80p Sent to 1

Location to be



OK AAB

Well - 674

RESERVE

SPECIAL INSTRUCTIONS

Location Meas. 5-13 14 by O.C. Straight As per plat, except as noted. On field map

Returned to Pittsburgh

Location changed on account of

Authorized by Date 1 Signed

WELL RECORD.

copy
W.H.

No. Ingrain Farm _____ Acres _____
Grant District Wetzel County WVa State _____
 Well No. 646 1119

Rig Commenced 190 } So. Penn Oil Co. Contractor
 Rig Completed 190 }
 Drilling Commenced June 21 190 4 }
 Drilling Completed Sept 14 190 4 } J. D. Dow. Contractor

| ROCK FORMATION. | TOP. | BOTTOM. | REMARKS. |
|--------------------|------|-------------|------------|
| Conductor | | 16 | |
| Pgh Coal | 905 | 911 | Steel Line |
| Dunkard Bd. | 1375 | | |
| Salt Sand | 1730 | 1940 | |
| Water | 1810 | | |
| Maxon Sand | 2014 | 2035 | |
| Pencil Cave | 2065 | 2074 | |
| Big Lime | 2076 | 2230 | |
| " " " " | 2230 | | |
| Stray Sand | 2926 | 2938 | |
| Gordon " | 2962 | 2982 | |
| Gas | 2967 | | |
| Total Depth | | 2989 | " " |

CASING RECORD.

| Size | Charged to Well. | | Put in Well. | | Pulled Out. | | Left in Well. | | Transferred Before Completion. | | Left at Well, Not in Use. | |
|--------|------------------|----|--------------|----|-------------|----|---------------|----|--------------------------------|----|---------------------------|----|
| | Feet | In | Feet | In | Feet | In | Feet | In | Feet | In | Feet | In |
| 10" | | | 637 | | 637 | | | | | | | |
| 8 1/4" | | | 413 | | 530 | | 883 | | | | | |
| 6 5/8" | | | 1935 | | | | 1935 | | | | | |
| 5 1/2" | | | 2255 | | | | 2255 | | | | | |

Production First 24 Hours } Bbls.
 Approved by J. D. Winger Sup't.

PROOF.—Sum of Three right hand columns equals First or "Charged to Well."
 Use as many sheets as necessary to make a complete record.

WET - 679

674