

Map Square _____

UNITED FUEL GAS COMPANY

Lease No. *34-3143*

WELL LOCATION _____ FIELD _____

Well No. 3964 *Quinn Farm* Farm; 2700 Acres. On *700 5/8* _____

Ell Dist. _____ Co. *W.V.* State _____

Scale 1" = *1350'*

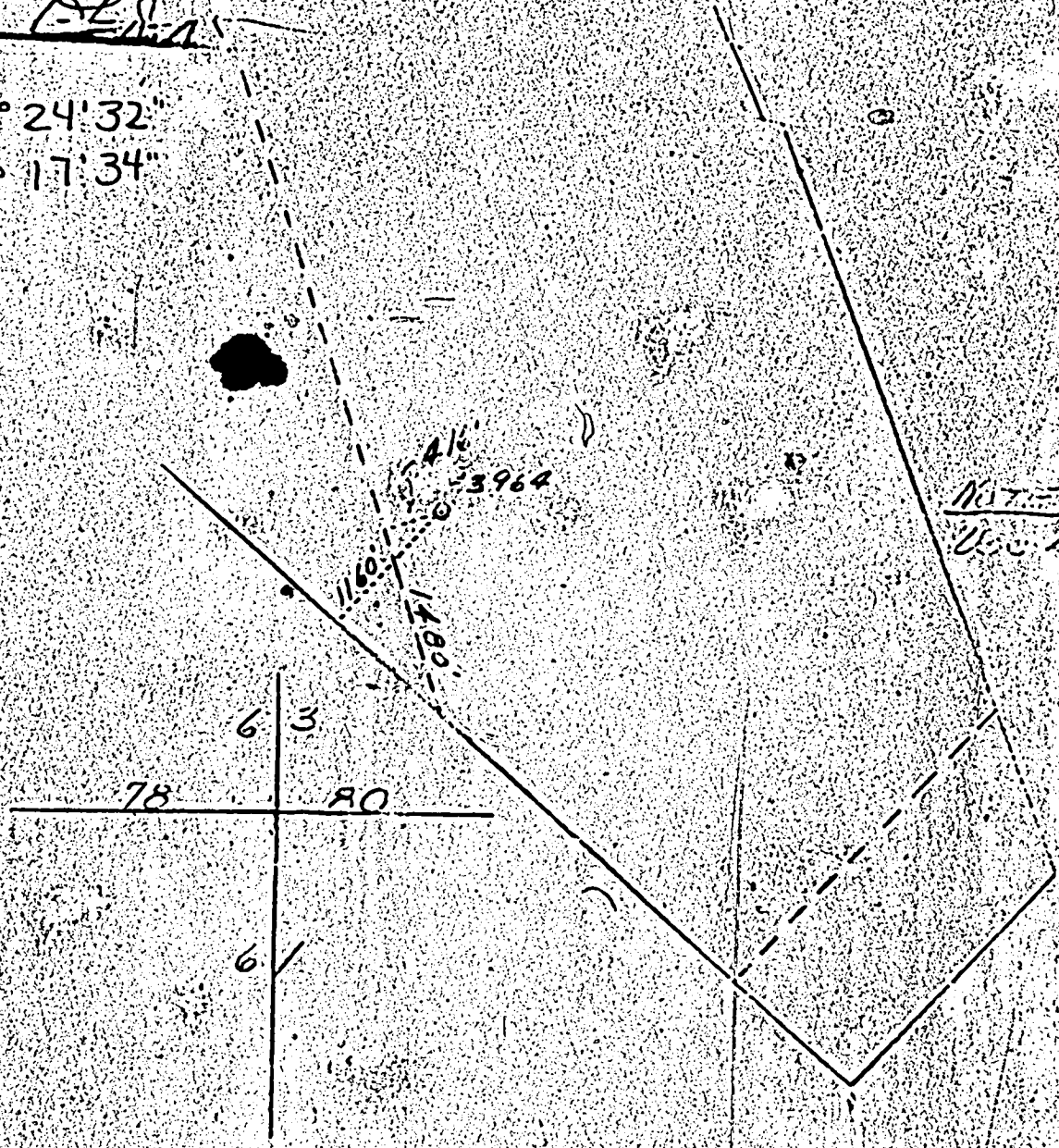
Location made by *M.S. N. ...* Date *April 26*, 19 *22*

Elevation *120* *Bm*

Reserve: "80 feet round ... and coal ..."

No buildings ...

Lat. *38° 24' 32"*
Long. *81° 17' 34"*



NOTE: Use Loc A

*Book 241
Page 20*

Approved: _____ 19 _____ Engineer
 Approved: _____ 19 _____ President

UNITED FUEL GAS COMPANY
(INCORPORATED)

Rec'd Dept. Acct Dept. 10/23/29 J20P

SERIAL WELL NO. 3964

LEASE NO. 4579

MAP SQUARE 80-63

RECORD OF WELL No. 3964 on the

Queen land Farm of 2700 Acres
in Elk, District
Kanawah County
Glendonin Field, State of W. Va.

Rig Commenced May 29, 1929. 112
Rig Completed June 5, 1929. 102
Drilling Commenced June 24, 1929. 102
Drilling Completed Oct. 18, 1929. 102
Drilling cost 1.75 per foot 3027.50

Contractor is: U.F.W. Org. Dept.
Address: Charleston, W. Va.

Drillers Names U. L. Roak
Al Beatty

Elevation 990

CASING AND TUBING

SIZE	USED IN DRILLING	LEFT IN WELL
10		
11		
10	51	51
8 1/4	658	658
6 5/8	1226	1226
5 3/16	1548 1/2	1548 1/2
4 7/8		
4		
3	1750	1750
2		

TEST BEFORE SHOT

of Water in _____ Inch
10th of Merc. in _____ Inch
10th Volume 1,470,000 Cu. ft.

TEST AFTER SHOT

of Water in _____ Inch
10th of Merc. in _____ Inch
10th Volume _____ Cu. ft.

Rock Pressure 470*

Date Shot _____

Size of Torpedo _____

Oil Flowed _____ bbls. 1st 24 hrs.

Oil Pumped _____ bbls. 1st 24 hrs.

SHUT IN

Date Oct. 18, 1929.

3 in Tubing or _____

Size of Packer 2x3-3/16x16

Kind of Packer Par. Anc. set at 1576'9"

1st Perf. 8 1/2" 10'9" from 1712'3" to 1750'

2nd Perf. 8 1/2" 24'6" from 1660'3" to 1684'9"

Well abandoned and

Plugged _____ 10'

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Soil	0	32	32	hole full of water 10'
Sand	32	205	173	
COAL S.L.M.	205	208	3	
Slate & Shell	208	260	52	
sand	260	425	165	
slate	425	460	35	
sand	460	490	30	
slate & shell	490	530	40	
lime	530	550	20	
slate	550	645	95	
sand	645	695	50	8 1/2" casing on shoe at 650' S.L.M.
slate & Shell	695	750	55	
sand	750	770	20	
slate	770	805	35	
lime	805	820	15	
sand	820	850	30	
slate	850	885	35	
SAND SAND	875	1275	400	6-5/8" casing on shoe at 1212' S.L.M.
black lime	1275	1280	5	
red rock	1280	1295	15	
slate	1295	1300	5	
black lime	1300	1315	15	
red rock	1315	1340	25	
black lime	1340	1390	50	
red rock	1390	1400	10	
black lime	1400	1407	7	
slate	1407	1409	2	
MASS SAND	1409	1460	51	

Continued on sheet 2

UNITED FUEL GAS COMPANY
(INCORPORATED)

Sheet 2

SERIAL WELL No. 2964

LEASE No. _____

MAP SQUARE _____

RECORD OF WELL No. _____

on the _____

Block of _____

Acres _____

District _____

County _____

Field, State of _____

In _____

Rig Commenced _____

102

Rig Completed _____

102

Drilling Commenced _____

102

Drilling Completed _____

102

Drilling to cost _____

per foot

Contractor is: _____

Address: _____

Drillers' Names _____

CASING AND TUBING

SIZE	USED IN DRILLING	LEFT IN WELL
10		
13		
10		
8 1/4		
6 5/8		
5 3/10		
4 7/8		
4		
3 7/8		
3		

TEST BEFORE SHOT

_____ of Water in _____ Inch
10ths
_____ of Merc. in _____ Inch
10ths
Volume _____ Cu. ft.

TEST AFTER SHOT

_____ of Water in _____ Inch
10ths
_____ of Merc. in _____ Inch
10ths
Volume _____ Cu. ft.

Rock Pressure 470

Date Shot _____

Size of Torpedo _____

Oil Flowed _____ bbls. 1st 24 hrs.

Oil Pumped _____ bbls. 1st 24 hrs.

Well abandoned and _____

Plugged _____ 19 _____

SHUT IN

Date _____

_____ in _____ Tubing or Casing

Size of Packer _____

Kind of Packer _____

1st Perf. Set _____ from _____

2nd Perf. Set _____ from _____

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Little lime	1460	1497	37	
pencil cave	1497	1500	3	
lime shell	1500	1516	16	
pencil cave	1516	1523	7	
BIG LIME S.L.M.	1523	1663	140	5-5/8" casing run on 3-5/16 6-3/8 10
Big Injun S.L.M.	1663	1693	30	Parsons B. H. packer, S.L.M. 1528'
gas ray	1665	1675	10	test 12/10 mercury thru 3" opening.
slate	1693	1700	7	
sand	1700	1728	28	
slate	1728	1730	2	
Total Depth S. L. M.		1730		
One hour Pick up.				
1 min. 125r	6 min. 225r		20 min. 385r	
2 min. 200r	7 min. 300r		30 min. 390r	
3 min. 250r	8 min. 345r		45 min. 400r	
4 min. 295r	9 min. 350r		60 min. 410r	
5 min. 315r	10 min. 360r			

Tubed and shut in Oct. 18, 1929.

Final open flow test 14/10 mercury 3"

APPROVED A. C. [Signature] Supt.

WELL OPERATOR: Columbia Gas Trans. Corp.
FIRST PURCHASER: *
OTHER: _____

004030
*

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
92-0524-108-039-3143
3739
Use Above File Number on all Communications
Relating to Determination of this Well

QUALIFIED

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

- ITEM NO. _____
- 1. FERC -121 / Items not completed - Line No: 7011 80 b,c,d
 - 2. IV-1 Agent: James L. Weekley
 - 3. IV-2 Well Permit _____
 - 4. IV-6 Well Plat. /
 - 5. IV-35 Well Record / Drilling / Deepening _____
 - 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
 - 7. IV-39 Annual Production 2 Months - years
 - 8. IV-40 90 day Production 88 Days off line: _____
 - 9. IV-48 Application for certification. Complete? /
 - 10-17. IV Form 51 - 52 - 53 - 54 - 55 - (56) - 57 - 58 Complete? / Affidavit Signed /
 - 18-28. Other: Survey _____ Logs _____ Geological Charts _____
Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
Gas Analyses _____
 - (1) Date commenced: 6-24-29 Date completed: 10-18-29 Deepened _____
 - (2) Production Depth: 1665-75
 - (3) Production Formation: Big Injun
 - (4) Final Open Flow: 1470 MCF
 - (5) After Frac. R. P.: 470#
 - (6) Other Gas Test: _____
 - (7) Avg. Daily Gas from Annual Production: $\frac{11120}{298} = 37.3$ MCF
 - (8) Avg. Daily Gas from 90-day ending w/1-120 days $\frac{2935}{82} = 35.9$ MCF
 - (9) Line Pressure: NA PSIG from Daily Report
 - (10) Oil Production: _____ From Completion Report _____
 - 10-17. Does lease inventory indicate enhanced recovery being done NO
 - 10-17. Is affidavit signed? / Notarized? /
 - Does official well record with the Department confirm the submitted information? NO
 - Additional information: _____ Does computer program confirm? _____
 - Was Determination Objected to _____ By Whom _____

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