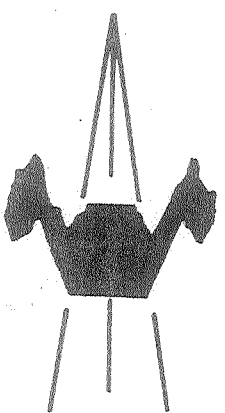
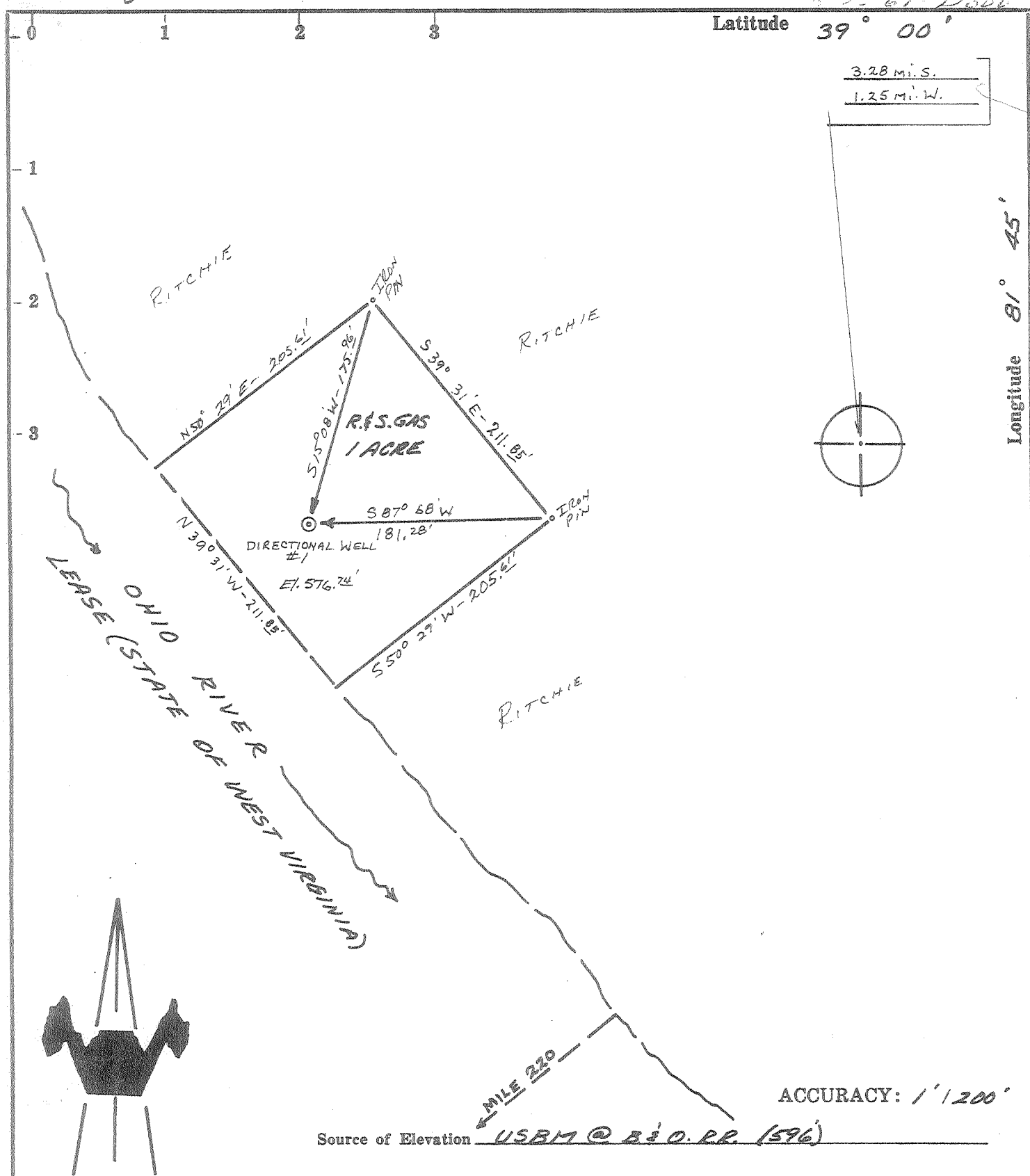


8-25-69-Page



- New Location
- Drill Deeper
- Abandonment
- Fracture
- Redrill

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.

issued 12-20-73

*Chet Waterman*

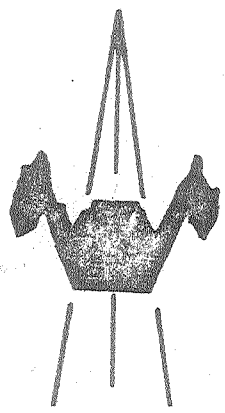
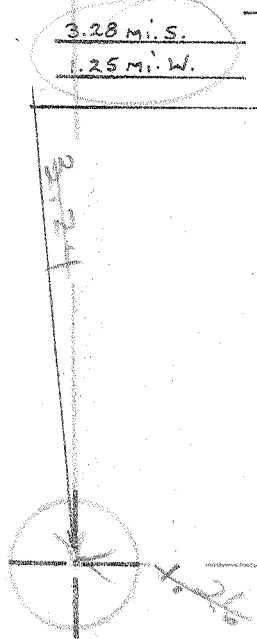
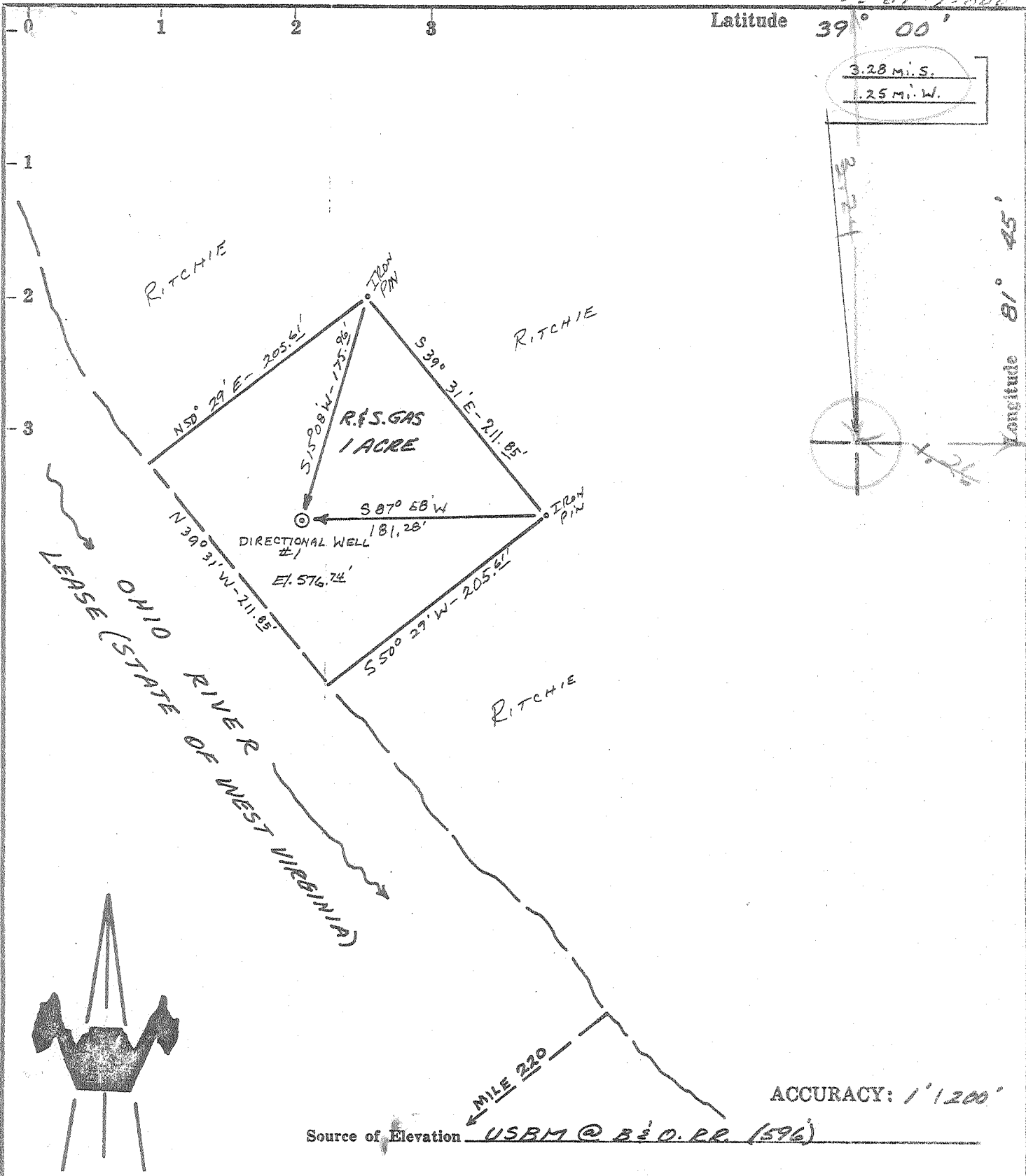
Company R & S GAS & OIL CO.  
 Address CHARLESTON, W.VA.  
 Farm STATE OF WEST VIRGINIA  
 Tract \_\_\_\_\_ Acres \_\_\_\_\_ Lease No. \_\_\_\_\_  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 576.74'  
 Quadrangle RAVENSWOOD NE  
 County JACKSON District RAVENSWOOD  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 69003-298 Drawing No. \_\_\_\_\_  
 Date 8/11/69 Scale 1" = 100'

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

WELL LOCATION MAP  
 FILE NO. JAC-1180-P

+ 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
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*Chet Waterman*

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 Tract \_\_\_\_\_ Acres \_\_\_\_\_ Lease No. \_\_\_\_\_  
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 Elevation (Spirit Level) 576.74'  
 Quadrangle RAVENSWOOD NE  
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 File No. 69003-298 Drawing No. \_\_\_\_\_  
 Date 8/11/69 Scale 1" = 100'

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

**WELL LOCATION MAP**  
 FILE NO. JAC-1180

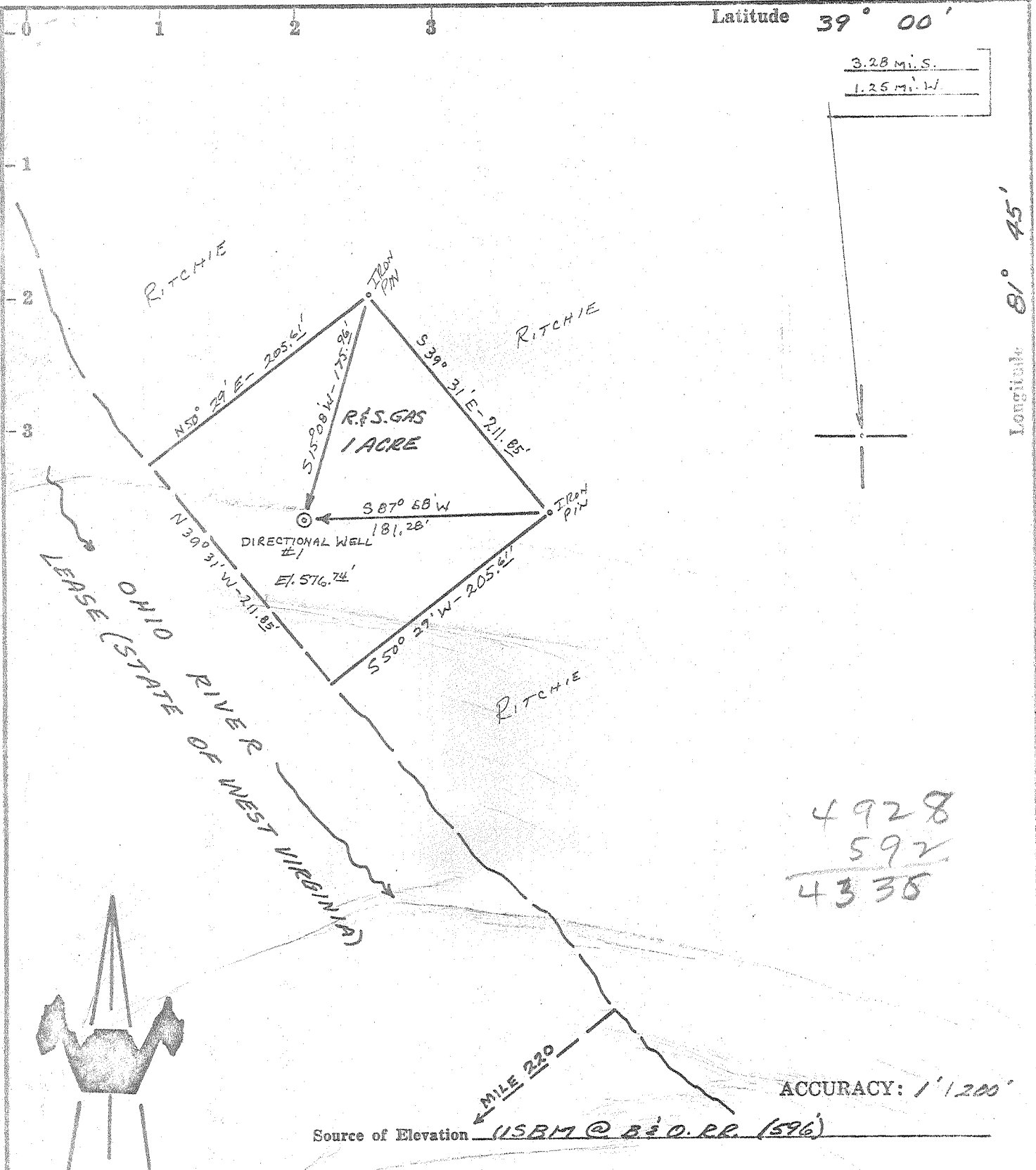
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
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*Deep Well*

Latitude 39° 00'

3.28 Mi. S.  
1.25 Mi. W.

Longitude 81° 45'



4928  
592  
4335

ACCURACY: 1'1200'

Source of Elevation USBM @ B & O. RR. (596')

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*Chet Waterman*

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 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 576.74'  
 Quadrangle RAVENSWOOD NE  
 County JACKSON District RAVENSWOOD  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 62003-298 Drawing No. \_\_\_\_\_  
 Date 8/11/69 Scale 1" = 100'

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

WELL LOCATION MAP  
FILE NO. JAC-1180

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*Deep Well (Newburg)*



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

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle Ravenswood 3-34

WELL RECORD

Oil or Gas Well GAS  
(KIND)

Permit No. JAC1180

Company R & S Gas & Oil Corp.  
Address 1415 Commerce Square, Charleston  
Farm Ritchie Acres 1  
Location (waters) Ohio River  
Well No. W. Va. Well #1 Elev. KB591.74  
District Ravenswood County Jackson  
The surface of tract is owned in fee by Ritchie heirs  
Address Ravenswood, W. Va.  
Mineral rights are owned by Same

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
<del>20</del>	62.45	62.45	
13 3/8	93.55	93.55	
10			Size of
<del>9 5/8</del>	1637	1637	
<del>7</del>	4897	4897	Depth set
5 3/16			
4 1/2			
3			Perf. top
2 3/8	4916	4916	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

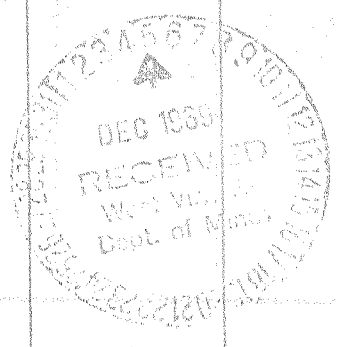
Drilling commenced Sept. 22, 1969  
Drilling completed Oct. 2, 1969  
Date Shot From To  
With  
Open Flow /10ths Water in Inch  
/10ths Merc. in Inch  
Volume 20,000,000 Cu. Ft.  
Rock Pressure 1725 lbs. 24 hrs.  
Oil N/A bbls., 1st 24 hrs.

Attach copy of cementing record.  
CASING CEMENTED SIZE No. Ft. Date  
Amount of cement used (bags) See Chronological Order  
Name of Service Co.  
COAL WAS ENCOUNTERED AT FEET INCHES  
FEET INCHES FEET INCHES  
FEET INCHES FEET INCHES

WELL ACIDIZED (DETAILS) N/A  
WELL FRACTURED (DETAILS)

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 36,000,000 36,000 MCFGPD  
ROCK PRESSURE AFTER TREATMENT 1725# HOURS 24  
Fresh Water Feet Salt Water Feet  
Producing Sand Newburg 4928-32 Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
ALL MEASUREMENTS FROM KELLY BUSHING							
GRAVEL			0	104			
RED ROCK			104	115			
SAND			115	130			
SHALE			130	145			
SAND			145	150			
RED ROCK & SHALE			150	200			
SAND			200	210			
SHALE			210	220			
SAND			220	225			
RED ROCK & SHALE			225	456			
SAND			456	470			
RED ROCK & SHALE			470	1095			
SAND & SHALE			1095	1105			
SHALE			1105	1391			
SAND			1391	1410			
SALT SAND			1410	1463			
BIG LIME			1463	1505			
SAND & LIME			1505	1530			
ENJUN			1530	1560			
SHALE			1560	1662			
SAND & SHALE			1662	1865			
SHALE			1865	1985			
BOREA			1985	1990	Gas Smell		
SHALE			1990	4140			
LIME - <u>Hendersville</u>			4140	4210			
SAND - <u>Oriskany</u>			4210	4240			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
LIME - Helderberg NEWBURG T.D.		Salina	4240 4927 4932	4927 4932 <u>535</u>	Gas 4928	4927 592 <u>4335</u>	4927 4210 <u>717</u>

CHRONOLOGICAL SEQUENCE OF EVENTS:

- 9/22/69 ----- Commenced Drilling
- 9/23/69 ----- Drove 62.45' of 20"
- 9/24/69 ----- Ran 93.55' of 13 3/8" --- Cemented (Halliburton) with 90 sacks standard-A-Portland & 2% CACl
- 9/27/69 ----- Ran 1637' of 9 5/8" --- Cemented (Halliburton) with 300 sacks of Light POZ, 100 sacks of Standard-A-Portland & 2% CACl
- 10/ 1/69 ----- Ran 4897' of 7" --- Cemented (Halliburton) with 200 sacks of Standard-A-Howser.
- 10/ 2/69 ----- Drilled Well in --- Estimated 20,000,000 Natural
- 10/ 2/69 ----- Killed Well (Halliburton) with 200 BBL. of CACl.
- 10/ 3/69 ----- Ran 4916' of 2 3/8" Tubing
- 10/11/69 ----- Fractured Well (Dowell):

620 Bbls.  
20,000# 20/40 Sand  
  
20 Bbls./Min.---Injection Rate  
4300# --- Maximum Pressure  
3136# --- Average Pressure  
3400# --- Final Pump in Pressure

Final Open Flow

36,000,000  
R.P. 1725#/24 hrs.

Date \_\_\_\_\_, 19\_\_\_\_  
APPROVED B. S. [Signature] Owner  
By [Signature]  
(Title)