

D.A. STEINHOFF ET AL (CONSOL.)
 WV-257 169.556 AC (Part of 310.056[±])
 D.A. STEINHOFF - RIPLEY, W.VA.
 (SURF.)

New Location
 Drill Deeper
 Redrill
 Abandonment
 Issued 10-19-70

ELEV. BASED FROM MITCHELL A-1 WELL
 DEGREE OF ACCURACY - 1 PART 200'
 "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."

Company CITIES SERVICE OIL COMPANY
 Address BOX 873 CHARLESTON, W.VA.
 Farm D.A. STEINHOFF ET AL (CONSOL.)
 Part of 310.056[±]
 Tract Acres 169.556 Lease No. WV-257
 Well (Farm) No. A-1 Serial No. GW-1684
 Elevation (Spirit Level) 715.56
 Quadrangle RIPLEY SW
 County JACKSON District RIPLEY
 Engineer Wendell S Moore
 Engineer's Registration No. _____
 File No. _____ Drawing No. W-15-70
 Date SEPT. 9, 1970 Scale 1"=400'

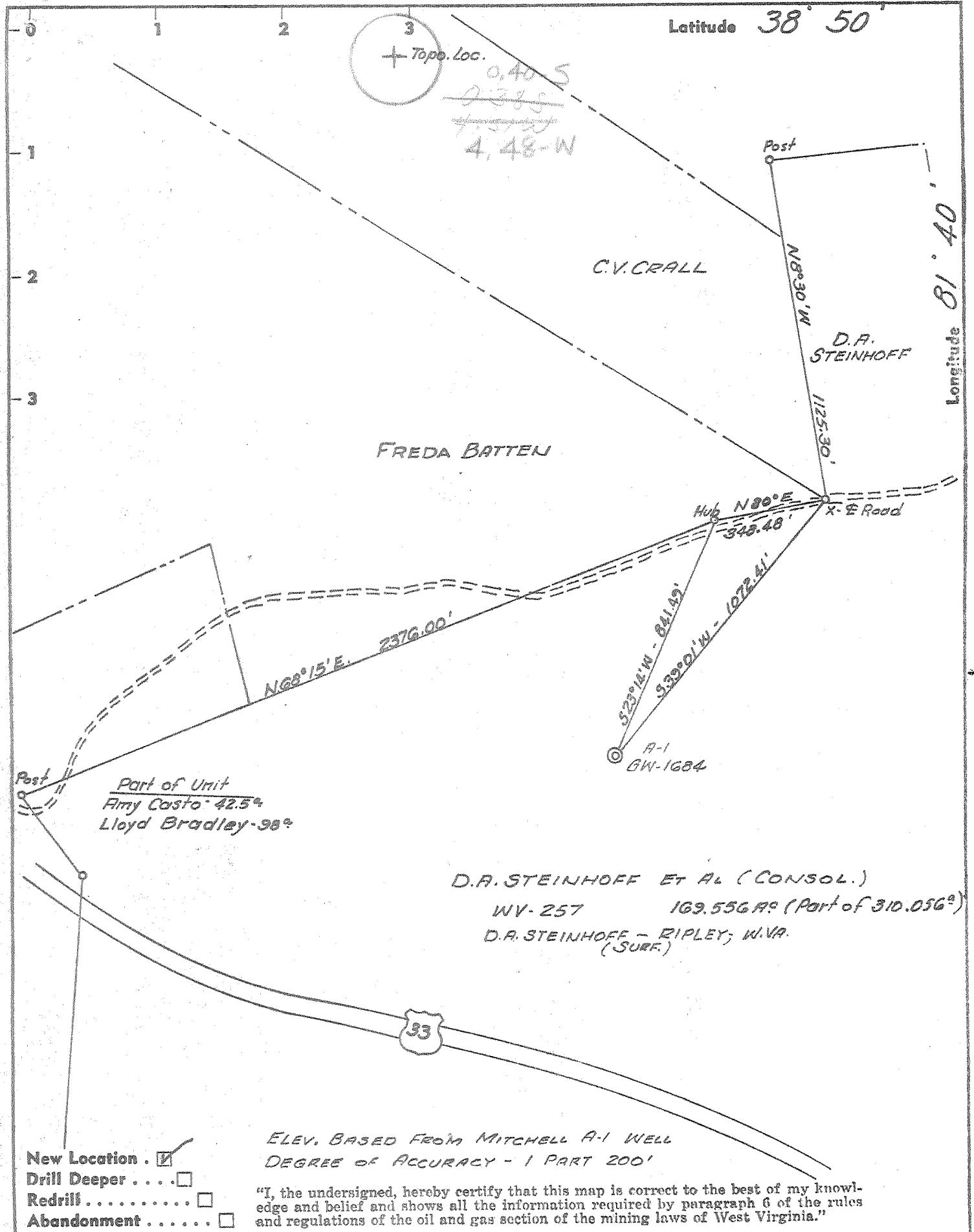
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Jac-12.36-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.

Chas. H. ...



- New Location
- Drill Deeper
- Redrill
- Abandonment

ELEV. BASED FROM MITCHELL A-1 WELL
 DEGREE OF ACCURACY - 1 PART 200'

"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."

Company CITIES SERVICE OIL COMPANY
 Address BOX 873 CHARLESTON, W.VA.
 Farm D.A. STEINHOFF ET AL (CONSOL.)
 Part of 310.056?
 Tract Acres 169.556 Lease No. WV-257
 Well (Farm) No. A-1 Serial No. GW-1684
 Elevation (Spirit Level) 715.56
 Quadrangle RIPLEY SW
 County JACKSON District RIPLEY
 Engineer Wendell S Moore
 Engineer's Registration No. _____
 File No. _____ Drawing No. W-15-70
 Date SEPT. 9, 1970 Scale 1"=400'

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

WELL LOCATION MAP
 FILE NO. Joc-1236

+ 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.

Chas. A. Davidson



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION 2

Rotary
Spudder
Cable Tools
Storage

Oil or Gas Well Gas
(KIND)

Quadrangle Ripley
Permit No. JAC-1236

WELL RECORD

Company	Casing and Tubing	Used in Drilling depth set	Left in Well	Packers
Cities Service Oil Company	Size			
Box 873, Charleston, W. Va.	16			Kind of Packer
D. A. Steinhoff et al Acres. 310.05'	13 3/8 48#	96'	all	none
Location (waters)	10			Size of
Well No. A-1- GW-1684 Elev. 715.56'	8 1/4" 24#	2162'	all	Depth set
District Ripley County Jackson	5 1/2" 17#	5519'	all	
The surface of tract is owned in fee by D. A. Steinhoff et ux	5 3/16			Perf. top
R.D. #1 Address Ripley, W. Va.	4 1/2			Perf. bottom
Mineral rights are owned by D. A. Steinhoff, et al (for further add. contact CSOC) Address	3			Perf. top
Drilling commenced 9-20-70	2-3/8" 4.7#			Perf. bottom
Drilling completed 10-1-70	Liners Used			
Date Shot From To				
With				
Open Flow /10ths Water in Inch	Attach copy of cementing record.			
/10ths Merc. in Inch	CASING CEMENTED SIZE No. Ft. Date			
Volume Cu. Ft.	Amount of cement used (bags)			
Rock Pressure lbs. hrs.	Name of Service Co. See reverse side			
Oil bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT FEET INCHES			
WELL ACIDIZED (DETAILS)	FEET INCHES FEET INCHES			
WELL FRACTURED (DETAILS) Fractured	FEET INCHES FEET INCHES			
RESULT AFTER TREATMENT (Initial open Flow or bbls.) Well made salt water				
ROCK PRESSURE AFTER TREATMENT HOURS				
Fresh Water Feet Salt Water Feet				
Producing Sand Depth				

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Rock			0	64			
Sand Stone			64	89			
Red Rock			89	99			
Shale			99	820			
Sand			820	1035			
Salt Sand - <i>thins ???</i>			1035	1620			
Shale			1620	1771			
Big Lime			1771	1915			
Conjun			1915	1955			
Shale & Sand			1955	2105			
Shale			2105	2170			
Lime and Shale			2170	2500			
Shale			2500	4725			
Lime - <i>Huntersville (463)</i>			4725	4827			
Oriskany Sand			4827	4865			
Lime - <i>Helderberg</i>			4865	4981			
Dolomite - <i>SALINA</i>			4981	5564			
Oriskany Sand <i>Newburg</i>			5564	5582			
Lime <i>McKenzie</i>			5582	5601 T.D.			

545

RECEIVED
OCT 22 1970

OIL & GAS DIVISION

Steinhoff "A" #1

Formation	Color	Hard or Soft	Top \rightarrow	Bottom	Oil, Gas or Water	Depth Found	Remarks
Casing Record							
-20-70	-	Set and cemented	13-3/8" 48# H-40 B Grade casing	at 96'	with 100 sacks of regular cement with 4% Ca. Cl. Cement circulated to surface.		
-25-70	-	Set and cemented	8-5/8" 24# H-40 new casing	at 2,162'	with 400 sacks Lite Poz 3 and 100 sacks regular cement with 2% Ca. Cl. Pumped 50 bbls. 6% gel with lost circulation material ahead of cement. Good circulation of gel. Cement did not circulate to surface. Float at 2,131'. Centralizers 2,131', 2,038' and 1,839'		
-29-70	-	Set and cemented	5-1/2" 17# N=80 new casing	at 5,519'	with 115 sacks regular cement and 39 sacks of Latex. Pumped 250 bbls. 6% Gel ahead of cement. Good circulation of gel to surface. Float at 5,489'. Centralizers 5,489', 5399', 5309' and 5,219'		
-28-70	-	Ran Birdwell Gamma Ray	at 5,388'	inside D.P.			
0-1-70	-	Ran Birdwell Gamma Ray, Density and Induction logs.	Birdwell T.D. 5601'	-	Newburg Sand 5564-5582'	with 9' of 8 to 22% porosity.	
0-7-70	-	<u>Fractured Newburg Sand</u>					
		Pumped in 500 gallons of mud acid and followed with 18,000# of 20-40 Sand and 7,000# of 10-20 sand in 21,600 gallons or gelled water. Maximum treating pressure 5100#. Average treating pressure 4,000#. AIR 23.4 bbl/min. Waited 6 hours and kicked well off with nitrogen. Blew 45 minutes and shut in.					

Date October 19, 1970APPROVED Cities Service Oil Company, OwnerBy L. D. Todd, Houston, Texas
(TDS)