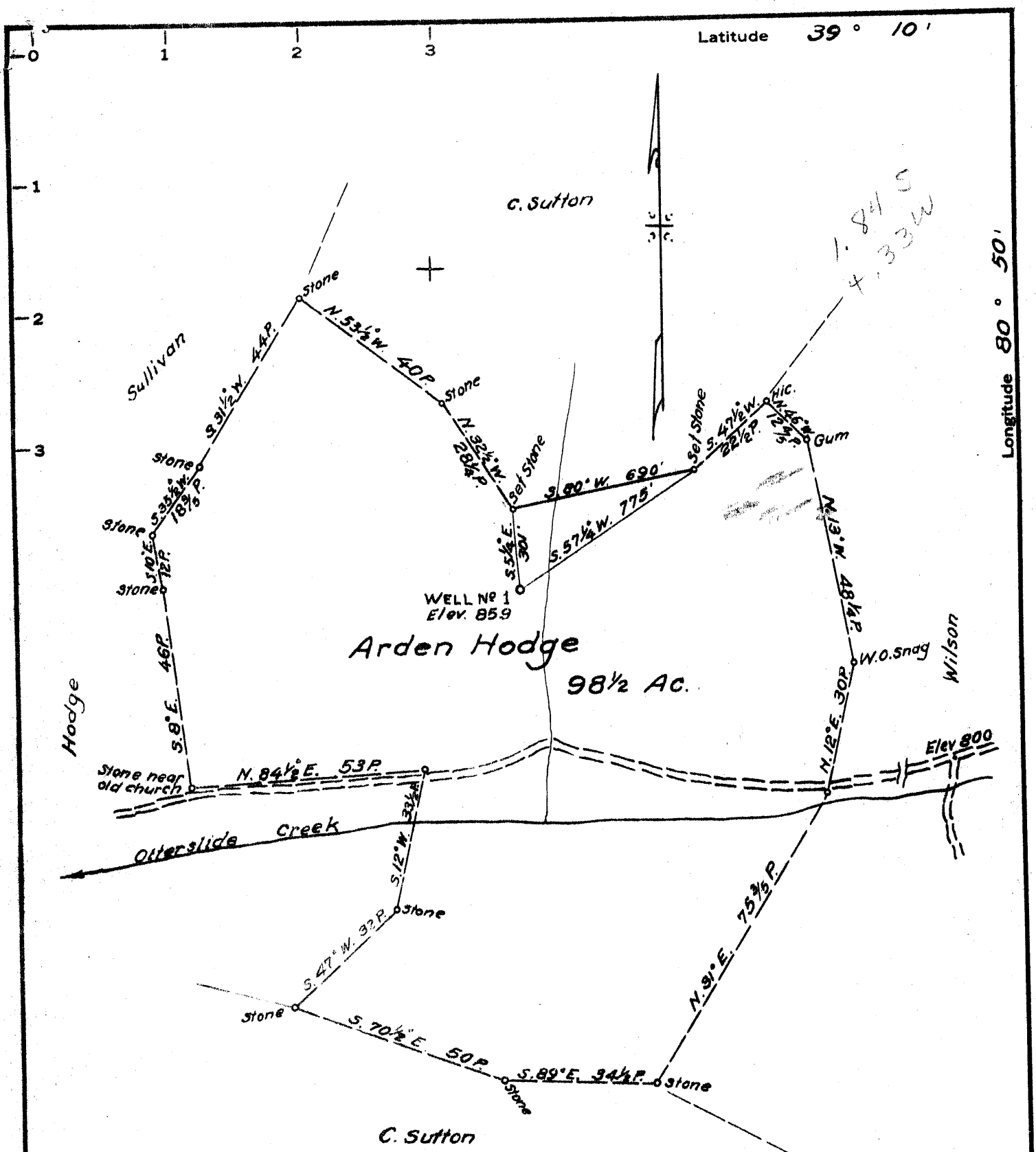


Latitude 39° 10'

Longitude 80° 50'



MINIMUM ERROR OF CLOSURE 1/500

SOURCE OF ELEVATION Road Junction 0.8 mile east of location - Elev. 800.0

New Location
 Drill Deeper
 Abandonment

THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP IS CORRECT TO THE BEST OF MY KNOW-
 LEDGE AND BELIEF, AND 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.

~~MINERVE OIL CORP. FORMERLY JOSEPH S. GRASS~~
 Company Arden Petroleum, Inc.

Address 314 Union Trust Bldg, Parkersburg, W. Va.
 Farm Arden Hodge
 Tract 2 Acres 98 1/2 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 859
 Quadrangle Holbrook
 County Ritchie District Union
 Engineer Parker E. Peters
 Engineer's Registration No. 485
 File No. _____ Drawing No. _____
 Date May 23, 1964 Scale 1" = 30 P.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. Bit-2899P

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 19

Quadrangle Holbrook

Permit No. RIT 2899

WELL RECORD

Oil or Gas Well Both
(KIND)

Company Adena Petroleum, Inc.
Address 1814 7th St., Parkersburg, W.Va.
Farm Arden Hodge Acres 98 1/2
Location (waters) Otterslide
Well No. One Elev. 859
District Union County Ritchie
The surface of tract is owned in fee by Arden Hodge
Address Berea, W.Va.
Mineral rights are owned by SAME
Address _____
Drilling commenced 6/30/64
Drilling completed 8/5/64
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED See Back of Form

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	17	17	Kind of Packer _____
13			
10	241	None	Size of _____
8 3/4	1013	None	
6 3/4			Depth set _____
5 3/16			
#4 1/2	2240	2240	Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED 4 1/2 SIZE 2240 No. Ft. 8/10/64 Date
150sx reg. cement 3 sx jell (Dowell)
No Coal
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT 4 BOPD + 200 gal per day
ROCK PRESSURE AFTER TREATMENT 735 lb 36 hours
Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	2			
Red Rock			2	17			
Sand			17	28			
Red Rock			28	80			
Slate			80	170			
Red Rock			170	182	Water	175	
Slate			182	200			
Red Rock			200	236			
Slate Shells			236	245			
Red Rock			245	275			
Slate			275	300			
Red Rock			300	350			
Slate Shells			350	440			
Red Rock			440	458			
Slate Shells			458	485			
Red Rock			485	510			
Sand			510	530			
Red Rock			530	600			
Slate Shells			600	605			
Sand			605	630			
Slate Shells			630	700			
Red Rock			700	750			
Slate Shells			750	845			
Sand			845	875			
Slate Shells			875	895			



Formation	Color	Hard or Soft	Top / 9	Bottom	Oil, Gas or Water	Depth Found	Remarks
Pink Rock			895	900			
Sand			900	930			
Slate Shells			930	993			
Sand			993	1055			
Slate Shells			1055	1220			
Sand			1220	1320			
Slate Shells			1320	1370			
Sand			1370	1405			
Slate Shells			1405	1500			
Sand			1500	1530			
Slate Shells			1530	1609			
Sand			1609	1640			
Slate Shells			1640	1745			
Sand			1745	1837	sh gas	1750	
Slate Shells			1837	2250 TD	sh oil	1830	
					sh oil	1982	
Fracture	8/25/64						
							400 bbl Visofrac (Halliburton) 500 gal 15% MCA Adomite additive Perforations 2023-2033
Fracture	9/24/64						
							(Halliburton) 30,750 gal water 500 gal reg. acid 25,000 lb. sand - 20/40 mesh 150 lb WAO-10 Fluid loss 100 lb WG-6 Jelling agent Perforations 1800-1806

Date 1-4-64, 19__

APPROVED Geniel J. Prather, Owner

By Adena Petroleum, Inc.

(Title)