

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all of the information required by Paragraph 5 of the rules and regulations of the Oil and Gas Section of the mining laws of West Virginia."

Edward C. Caswell
 EDWARD C. CASWELL
 TEXAS REG. NO. 5998

COMPANY PHILLIPS PETROLEUM COMPANY

ADDRESS BARTLESVILLE, OKLAHOMA

FARM L.C. HALBRITTER

TRACT _____ ACRES 50 LEASE NO. 124222

WELL FARM NO. A-1 SERIAL NO. _____

ELEVATION (SPIRIT LEVEL) 1957

QUADRANGLE THORNTON *MC*

COUNTY PRESTON DISTRICT LYON

ENGINEER Edward C. Caswell

ENGINEER'S REGISTRATION NO. 5998-Texas

FILE NO. _____ DRAWING NO. _____

DATE _____ SCALE 1"=500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES

OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. PRES-128

+ 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.

Form OG-10



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Thornton

Permit No. PRE-128

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Phillips Petroleum
Address Bartlesville, Oklahoma
Farm Halbritter "A" Acres 50
Location (waters) 15,325' W of 79 Deg. 50' and 1925' S
Well No. 1 of 39 Deg. 30' Elev. 1957'
District Lyon County Preston
The surface of tract is owned in fee by Leslie Halbritter
Address Tunnelton, W. Va.
Mineral rights are owned by Leslie Halbritter
Address Tunnelton, W. Va.
Drilling commenced April 5, 1968
Drilling completed April 27, 1968
Date Shot None From None To None
With None

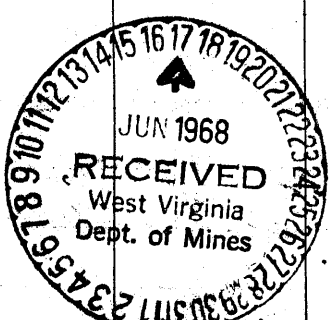
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	Set @:		Kind of Packer
13 13/8" 48#	48.88'	28.35'	(60 Sax) by Halli.
10 9 5/8" 32#	1006.73'	988.02'	(310 Sax) by Halli.
8 1/4			Depth set
6 5/8			
5 3/16 11.60#			
4 1/2 4 1/2" 7895'		7904.03'	(250 sax) by Halli.
3			Perf. top See attach-
2			Perf. bottom ment.
Liners Used			Perf. top <u>7576</u>
			Perf. bottom <u>7811</u>

Open Flow None /10ths Water in None Inch
/10ths Merc. in None Inch
Volume 3,638 MCF/day (GAOFP) Cu. Ft.
Rock Pressure 3500# lbs. 144 hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) None - see frac treatment
WELL FRACTURED (DETAILS) See reverse side

Attach copy of cementing record.
CASING CEMENTED 4 1/2" SIZE No. Ft. 4/23/68 Date
Amount of cement used (bags) 250 sax
Name of Service Co. Halliburton
COAL WAS ENCOUNTERED AT None FEET None INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) See gas volume above
ROCK PRESSURE AFTER TREATMENT None HOURS
Fresh Water 120' & 1195' Feet Salt Water None Feet
Producing Sand Onondaga Chert & Oriskany Depth 7895' - PBTD 7861.81'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
DRILLER'S LOG:					GAMMA RAY LOG:		
Surface Soil, Shale			0'	95'	FORMATION:	FROM:	TO:
Shale & Lime			95'	4332'	Big Lime	650'	840'
Shale			4332'	5004'	Wier (WEIR)	953'	1045'
Shale & Lime			5004'	5328'	50 Foot	1159'	1215'
Shale			5328'	5785'	30 Foot	1233'	1330'
Lime & Shale			5785'	5961'	Gordon	1443'	1500'
Shale			5961'	7167'	5th Sand	1743'	
Tully Lime			7167'	7217'	Bayard	1844'	1914'
Lime & Shale			7217'	7350'	Speechley	2525'	2539'
Shale			7350'	7580'	Riley	3607'	3716'
Chert			7580'	7699'	Benson	3880'	
Chert & Sand			7699'	7775'	Tully	7163'	7252'
Sand			7775'	7810'	Onondaga	7556'	7571'
Lime			7810'	7895'	Chert	7571'	7764'
			PBTD	7861.81'	Oriskany	7764'	7830'
					Helderberg	7830'	
					Picked up a small amt of fresh water @ 120'; hit fresh water @ 1195'.		
					Had a show of gas @ 1950' - tested on a 2" x 1" Pitot tube - 130 MCF/day.		
					Had a show of gas @ 7130'.		
					Had show of gas after slope tests @ 7310'; 7558'; 7649' & 7770'.		



Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
FRAC TREATMENT F/ REVERSE SIDE:							
6/26/68: Dowell frac treated 4 1/2" csg perforations f/ 7576'-7811' opposite Onondaga Chert & Oriskany zones w/ 60,000 gal. of 3% gelled acid - treated @ 5100# - no break - 30 BPM - 3750 hydraulic horse- power used - 5000 horsepower available - immediate SIP 4000#; 10-min. SIP 3600#.							

Date June 12, 19 68

APPROVED [Signature], Owner
E. S. MILES

By _____
DIST. PROD. SUPT. (Title)