





STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION 7

Rotary   
 Spudder   
 Cable Tools   
 Storage

Quadrangle Thornton  
 Permit No. P332-129

WELL RECORD

Oil or Gas Well  (Gas KIND)

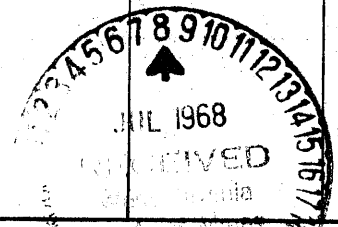
Company Phillips Petroleum  
 Address Wartlesville, Oklahoma  
 Farm Hand Hill Acres 112.1  
 Location (waters) 11,700' W of 79 De. 50'; 1900'  
S of 39 deg. 30'  
 Well No. 1 Elev. 1836.2'  
 District Valley County Preston  
 The surface of tract is owned in fee by See reverse side  
 Address \_\_\_\_\_  
 Mineral rights are owned by See reverse side  
 Address \_\_\_\_\_  
 Drilling commenced May 2, 1968  
 Drilling completed May 21, 1968  
 Date Shot None From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
 Volume 2,823 MCF/day (GAOPP) Cu. Ft.  
 Rock Pressure 3380# lbs. 444 hrs.  
 Oil None bbls., 1st 24 hrs.  
 WELL ACIDIZED (DETAILS) None - see frac treatment  
 WELL FRACTURED (DETAILS) See reverse side.

Casing and Tubing Size	Used in Drilling	Left in Well	Packers
16	Set 3:	-	Kind of Packer
13 1/2" 37.5'	52'	32.41'	(65 Sack) by Halli
10 1/2" 57.8'	1005.24'	986.41'	(350 Sack) by Halli
8 1/4"			Size of
6 3/4"			Depth set
5 3/16"			
4 1/2" 11.60'	7980'	7972.52'	(200 Sack) by Halli
3"			Perf. top See attach
2"			Perf. bottom ment.
Liners Used			Perf. top
			Perf. bottom <u>7783'</u>

Attach copy of cementing record. 7972.52'  
 CASING CEMENTED 4 1/2" SIZE No. Ft. 5/17/68 Date  
 Amount of cement used (bags) 200 Sack  
 Name of Service Co. Halliburton  
 COAL WAS ENCOUNTERED AT None FEET INCHES  
 FEET INCHES FEET INCHES  
 FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) See gas volume above **2,823 MCF**  
 ROCK PRESSURE AFTER TREATMENT - HOURS  
 Fresh Water None Feet Salt Water - Feet  
 Producing Sand Hunterville Onondaga Chert Depth 7980' - RETD 7947.65'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
<b>DRILLER'S LOG:</b>				<b>GAIMA RAY LOG:</b>			
Surface Soil, Hard Sand			0'	81'	FORMATION:	FROM:	TO:
Lime, Shale & Sand			81'	151'	Big Lime	645'	614'
Sand			151'	180'	Weir	938'	1040'
Sand & Shale			180'	282'	50 Foot	1148'	1212'
Shale & Lime			282'	485'	30 Foot	1242'	1302'
Red Shale & Lime			485'	662'	Gordon	1482'	1488'
Lime & Shale			662'	956'	5th Sand		
Lime			956'	1012'	Bayard	1842'	1894'
Lime & Shale			1012'	4068'	Speechley	2523'	2536'
Shale			4068'	7118'	Riley	3468'	3583'
Tully Lime			7118'	7168'	Benson	3727'	
Tully Lime & Shale			7168'	7320'	Tully	7115'	7203'
Shale & Lime			7320'	7607'	Onondaga	7560'	7576'
Chert			7607'	7863'	Chert	7576'	7847'
Sand			7863'	7968'	Oriskany	7847'	7908'
Lime & Sand			7968'	7980'	Helderberg	7908'	
			RET'D	7947.65'			



Formation	Color	Hard or Soft	Top 7	Bottom	Oil, Gas or Water	Depth Found	Remarks
<p><u>MINERAL RIGHTS OWNED BY F/ REVERSE SIDE:</u>  Laird L. Ward, 6999 Rhode Island Avenue, Calbert Hills Section, College Park, Maryland.</p> <p><u>MINERAL RIGHTS OWNED BY F/ REVERSE SIDE:</u>  Laird L. Ward, 5/6th Int. - address as above &amp; Ellery Hawkins heirs-at-law undivided 1/6th Int. C/O Wilda Hawkins, RFD, Needsville, W. Va.</p> <p><u>FRAC TREATMENT F/ REVERSE SIDE:</u>  5/20/68: Dowell frac treated 4 1/2" casing perforations f/ (7579'-7733' opposite Onondaga Chert - pmp'd into formation @ 3600# - treated w/ 55,000# of 20-40 sand; 60,000 gal. of 3% gelled acid - pmp'd 717 bbls. of treatment into formation - dropped six perf balls - balls on perforations - press. went f/ 4700# to 4300# - minimum treat. press. 4600#; maximum treat. press. 4900#; 42.2 Bbls/min. pmp injection rate; had 5,000 horsepower on location; used 4,863 horsepower; instant shut-down press. after frac 3600#; 10-min. SIP 3300# - started sand @ 11:40 A.M. - finished flush @ 12:16 P.M.</p>							

Date July 3, 19 68

APPROVED *E. S. Miles* Owner

E. S. MILES

By \_\_\_\_\_ (Title)  
DIST. PROD. SUPT.