

Samples 130 - 8000

DeepWell MI 15-E+

Permit No. MON-274

Location (waters)_

Drilling commenced

Drilling completed_

With_

Open Flow

Rock Pressure.

Shl & Shell

WELL ACIDIZED_

Volume_

Date Shot See Attacha From



STATE OF WEST VIRGINIA DEPARTMENT OF MINES L AND GAS DIVISION /7

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a o a	adrenala		town	
2 68	TIMES ANDES			

Drawer B, Bartlesville, Oklahoma

District Clinton County Monongalia

The surface of tract is owned in fee by Dalton Born, Ht 3,

Naomi Born, A Widow Address West Virginia

Mineral rights are owned by Ferdinand Born, A Widower

8-14-64

9-23-64

See Attachment

/10ths Water in

_/10ths Merc. in.

Phillips Petroleum

Ferd Born, et al

One (Born "A")

WELL RECORD

_Acres 168.266

Elev. 2091.64

rerdinand Born, A Widower 65%
Address Rt 1, Reeds ville, W. Va. 5 3/16 1/2"

Casing and Tubing

81/4 8-5/811

2 1-1/2" Liners Used

CASING CEMENTED

FEET____

Size

Used in Drilling

1091

9661

80171

77501

Rotary	
Spudder	· —
Cable Tools	

Storage Oil or Gas Well_ Left in Well Packers Kind of Packer. 1091 Size of. 9661 Depth set 80171 Perf. top. Perf. bottom. Perf. top_ Perf. bottom_ See Attachment Date COAL WAS ENCOUNTERED AT___ _FEET_ INCHES

INCHES

_INCHES_____FEET__

Inch

Inch

_hrs.

Cu. Ft.

_bbls., 1st 24 hrs.

WELL FRACTU	RED See	Attachment				***************************************	
RESULT AFTER	R TREATMEN	The second secon	CHILDREN CONTROL CONTR				
ROCK PRESSUR	RE AFTER TI	REATMENT	2900# - 24 h	rs.			
Fresh Water	:	Feet		Salt Water		Feet	
Formation	Color	Hard or Soft	Тор	Bottom	Oil, Gas or Water	Depth	Remarks
Surface Soil	(10)	atts ville)	0	40	Frsh Wtr		11-3/4" Csg @
Sand		Hard	40	128	@ 301		1201 W/175 ax
Sand & Shale			128	192			reg.cmt.
Shale			192	196			지기우리 기사 기장하는 점이
Coal			196	199			
Shl & Rd Rk				Mach 345	100		yeydayimbi jidi
Shale	Gray			hunk 410			anggi ya nga pangang ng
Sandy Shale	Gray		410	435	İ		
Sand			435	440		*	
Sha] e	Red, Gray	5'	440	1.85			gista a chata.
Shl & Rd Rk		Big Thiss 75	5 485 (513				
Sandy Shale	Gray	Pocoso 790	608	758	Sm Shw Gas		8-5/8" Csg @
Sand & Shale			758	1275	@ 9551		9821 w/125 sx
Shale	2 NG.		12751	14901			reg.cmt.
Shl & Rd Rk	2 CATON	1416	1490	1740			
Sd,Shl,RdRk	:5 Till 1		1740	1915	- 발생된 고등에 대		
Sand & Shi			1915	2885	Sm Shw Gas		,
Shi & Snells	de j		2885	3140	@ 28001		}
Sdy Shl & im	ı	A CONTRACTOR OF THE CONTRACTOR	3140	3370		-	
Sand & Shl			3370	3565	1	19202125	
Shale			3565	359 5	(1)		
Sandy Shale	生きった		3595	3655	5	ે તે ઉ	A
Shl & LmStk	f ICK	Barring L	3655	3715	1	(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Shale			3715	3790	(2)	C. L. C. C.	
S:1 & LmStks	s l. \		3790	3800	12 1	C. All All	His contraction of the second
Shl & Shells	s d		3800	3850		5, 76, 19, 18	F
Sand			3850	3890	SQUANTE 13.775	Clarity and a second	
Shl & LmStk			3890	3936	(8)	13 cm c 2	
017 2 01 77	3 2 3	N	2001	557	1	13 5 7 6 5 5 C	(

3936

3965

Formation	Color	Hard or Soft	Top /2	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shl & LmStks Shl & Shells Shl & LmStks Shale Shl & Sand Shl & LmStks Shl & Shells Lime & Shale Shl & Shells Shale Shl & LmStks Shale Shl & LmStks	Jan.	ANJA 9	3965 4045 4086 4131 4180 4235 4280 4324 4375 4420 4504 4601	4045 4086 4131 4180 4235 4280 4324 4375 4420 4504 4601	or Water	Found	Remarks
Sandy Shale Shale Lime Shale Shale & Lime Shale Lime Chert Sand Lime		7011ey 705	4720 4915 7054 7135 7195 7283 747914 7510 77601822 78411921	4915 7054 7135 7195 7283 7479 7510 7760 7841	Housters Ville Oriskand		Top Onondaga Lm @ 7490', Top Chert @ 7510'. Top of Oriskany
				8000 TD PBTD 7964	Helderbur		Sand @ 7822'. Helderburg Top @ 7921'. 5-1/2" Csg @
		TUlley Hamiltox	7054				8000 w/236 sx reg.cmt blended w/86 sx Diacel D & 50# Flocele
		Marcellus Onou.	~7385 7490				
Notice and committee of the state of the sta							
Defenda en el Caracterio de la compansión de la compansió							
Service of the control of the contro							

		November 1	2,	<u>19 64</u>	
APPROVED		PETROLEUM	COMPANY	Owner	
By_	RI	May	le	, Owner	
	A. T. Sla	agle /Tit	le) Area	Supt.	

7um-274

Perforations, Acidizing, Fracturing, and Cementing:

8-18-64 Ran 4 jts of 11-3/4" OD 42#, H-40, 8rd thd, Rge 2, ST&C, "1" Cond. casing. Pipe in hole less thds 108.51'. Set at 120'. Loaded 11-3/4" casing w/fresh water and circulated hole. Cemented w/175 sx regular bulk cement. Cement circulated.

8-21-64 Ran one 8-5/8" 8rd thd Baker float shoe, "1" Cond., 1.77', 30 jts 8-5/8" OD 24# J-55, 8rd thd, Rge 2, ST&C, SS, "1" Cond., less thds 966.09'. Set @ 982.21'. Loaded hole w/fresh wtr and circulated. Cemented w/125 sx regular bulk cement. Cmt circulated.

9-26-64 Ran one $5\frac{1}{2}$ " OD 8rd thd Baker Guide shoe, "1" Cond., 95'; ran 1 jt of $5\frac{1}{2}$ " OD 20#, N-80, 8rd thd, Rge 2, LT&C, SS, "2" Cond. Ran one $5\frac{1}{2}$ " OD 8rd thd Baker automatic fill-up collar, "1" Cond., 1.63'. Ran 70 jts $5\frac{1}{2}$ " OD 20#, N-80, 8rd thd, Rge 2, LT&C, SS, "2" Cond. Ran 121 jts $5\frac{1}{2}$ " OD 20#, P-110, 8rd thd, Rge 3, LT&C, SS, "2" Cond. Ran 4 jts of $5\frac{1}{2}$ " OD, 20#, P-110, 8rd thd, Rge 3, LT&C, SS, "1" Cond. Ran 13 jts $5\frac{1}{2}$ " OD, 17#, N-80, 8rd thd, Rge 2, LT&C, SS, "2" Cond. Ran 2 jts of $5\frac{1}{2}$ " OD 17#, N-80, 8rd thd, Rge 2, LT&C, SS, "1" Cond. Ran 2 jts $5\frac{1}{2}$ " OD 20#, N-80, 8rd thd, Rge 2, LT&C, SS, "1" Cond. Ran 2 jts $5\frac{1}{2}$ " OD 20#, N-80, 8rd thd, Rge 2, LT&C, SS, "2" Cond. Total jts of pipe in hole 213. Pipe in hole less thds 8017.28'. Pipe set at 8000'. Cemented w/236 sx regular bulk cement, blended w/86 sx Diacel D and 50# Flocele. Cement circulated.

9-29-64 McCullough Tool perforated Oriskany w/super csg strip jet from 7868' to 7874', 6', four 1/2" jet holes per ft. Total of 24 holes. Went back in hole and perforated 7842' to 7854', 12', four 1/2" holes per ft. - 48 holes.

9-30-64 Opened well up. McCullough perforated Oriskany Sand 7827 to 7833 w/super strip jets. Four 1/2" holes per ft. Total of 24 holes.

10-1-64 Dowell rigged up frac lines to 5500#. Pumped 250 gals. 15% mud acid down $5\frac{1}{2}$ " casing, followed w/178 BW. Sand fraced through perforations w/20,000# of 20-40 sand, 20,000 gals. gelled water. Used 3 qts of radioactive tracer material in frac water and 20 ball sealers. Used 10# of J-98 gel to 1,000 gals. water. Followed behind treatment w/200 flushwater.

10-5-64 McCullough Tool perforated chert from 7776 to 7779 w/super dyna jet. Four 1/2" holes per ft, 3', 12 holes. Perforated from 7758 to 7768, 7735 to 7742 w/ four 1/2" holes per ft. Total of 17', 68 holes.

10-6-64 Dowell fraced chert. Spearheaded w/200 gals. 15% mud acid, followed behind acid w/175 bbls of gelled water w/3% acid. Pumped in 20 bbls breakdown fluid at 4500%. Sand fraced w/20,000% of 20-40 sand and 20,000 gals. of gelled water. Used 10% of J-98 gel to 1000 gals. of water w/3% acid mixture.

10-9-64 McCullough Tool perforated chert w/super dyna csg jet gun $\frac{7677!}{100!}$ to $\frac{7692!}{100!}$ w/four $\frac{1}{2}$ " holes per ft, 15¹, 60 holes. Perforated chert $\frac{7670!}{100!}$ to $\frac{7673!}{100!}$ w/four $\frac{1}{2}$ " holes per ft, 3¹, 12 holes.

10-10-64 McCullough Tool perforated chert from 7663' to 7666' w/four 1/2" jet holes per ft, 3', 12 holes. Dowell tested frac lines to 5500#. Spearheaded w/200 gals. 15% mud acid dwn csg, followed behind acid w/175 bbls fresh wtr. Sand fraced with 19,000# of 20-40 sand, 18,000 gals. gelled water. Mixed 10# of J-98 gel to 1,000 gals. water w/3% acid mixture.

Perforations, Acidizing, Fracturing, and Cementing: (Continued)

10-12-64 McCullough perforated chert from 7584' to 7588', 7575' to 7580', 7567' to 7570', 7559' to 7564' w/four 1/2" holes per ft. Total of 17', 68 holes.

10-14-64 Dowell tested frac lines to 5500#. Spearheaded w/200 gals. 15% acid dwn csg, followed behind acid w/170 bbls frac acid. Sand fraced chert w/18,000# of 20-40 sand, 19,300 gals. gelled water. Used 10# J-98 gel to 1,000 gals. wtr w/3% acid.

10-23-64 Ran one 2-3/8" x 1-1/2" Baker Type G non-parted seating nipple w/one 2-3/8" x 1.8" Type J-4 expendable plug. Ran 204 jts of 1-1/2" OD 2.9#, J-55, Rge 2, streamlined tbg w/CS thd, "1" Cond. Ran one 1-1/2" OD x 2', 2.9#, J-55, w/CS thd crossover to 10rd thd EUE tbg sub, "2" Cond. Ran 47 jts of 1-1/2" OD 2.9, J-55, EUE, 10rd thd, Rge 2, SS tbg, "2" Cond. Total pipe in hole less thds 7750'. Set at 7760'.