

WELL SUMMARY

ODNR DIVISION OF OIL & GAS RESOURCES MANAGEMENT

API Well Number	34117234140000			Permit Issued	5/7/1985		
Well Name	CLINGER UNIT MORROW CO SWIW #46	Acres	20	Well No.	SWDW 1	Date Commenced	7/5/1985
Owner	FISHBURN PRODUCING INC			Well No.		Date Completed	7/30/1985
Logging Co.	Schlumberger, Dresser Atlas	Core No.		Sample No.			
County	MORROW	Township	CARDINGTON	Quadrangle	DENMARK	Zone	N
Section	4	Lot	0	Tract		Twp. Qtr.	
Measured	1330'SL & 1661'EL OFSEC 4			Surface X	1887000	Y	320800
				Bottom X		Y	
				Surface Lon	-82.906595	Lat	40.546491
				Bottom Lon		Lat	
GL	1015 DF	1019 KB	1020 LTD	3200	DTD	3229	PB Depth
							Date PB
TD Form.	TREMPEALEAU FORMATION			Prod. Form.	TREMPEALEAU FORMATION		
Status				Active Injection			
IP Natural		IP AT	1 BO & 36 BW	Initial Rock Pressure		Date Abandoned	
Perforations	PI: 3060-3200, Csg: T1, Comp: OHPI: 2938-2981						
Stimulations	SI: 3060-3200, Fmtn Cd: 371045, Stim In: OH, Type: ACID, Vol: 2750 Gal, Cmmnt: CONVERTDate: 8/22/2016, , Fmtn Cd: 371020, Stim In: CS, Type: ACID, Vol: 100 Gal, MTP: 100, MISIP: -30, Cmmnt: The operator reported the tubing was plugged with iron sulfide and he cleared the tubing using acid. On August 22, 2016. The operator pumped brine to a pressure of 100 psi until the well started to take the water. Then allowed 100 gallons of 28 percent hydrochloric acid to be pumped away. Then 35 barrels of salt water were pumped away until the tubing was cleared of the obstruction and the well went onto a vacuum drawing the water on a vacuum syphon.						
Casing Record	SURF 8.625 0-388-0, Comment: 388, Sks: 200 T1 2.375 0-3044 PROD 4.5 0-3060						
Log Types	Gamma Ray-Neutron,Density, Compensated Neutron Log, Dual spaced neutron, Resistivity, Neutron, Gamma Ray, Dual induction, Caliper, Density, Spectral density, Slim hole density, Vari, Gamma ray, Neutron, Induction, Phasor induction, Spherically Focused Log						

Formations

Formation	Top	Bottom	Source	Prod.	Non-Standard	Remarks
BIG LIME	349	1162	Driller	No		
TRENTON LIMESTONE	2382	2520	Driller	No		
BLACK RIVER GROUP	2520	2890	Driller	No		
GULL RIVER FORMATION	2890	2932	Driller	No		
TREMPEALEAU FORMATION	2932	3061	Driller	Yes		Show1 OIL
FRANCONIA FORMATION	3145	3200	Driller	No		INJECTING FORMATION

Annual Production

Year	Quarter	Source	Oil	Gas	Water	Remarks
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