

AP # 15-109-21443-00-00

GEOLOGICAL REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Conoco Resources Corp**

LEASE **McDaniel # 5-12**

FIELD **Willcat**

LOCATION **1722 F.N.I. + 2297' F.W.L.**

SEC **12** TWP **15 S** RGE **34 W**

COUNTY **Logan** STATE **Kansas**

CONTRACTOR **Southwind Drilling Rig #1**

SPUD **9-10-16** COMP **9-19-16**

SAMPLES SAVED FROM **3500'** TO **R.T.D.**

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION **Willcat**

DEPTH **2850'**

CL **2850'**

DEPTHS MEASURED FROM **LOG**

LOG **858' 288'**

CASINGS **288'**

PRODUCTION **Electric Loss**

ELECTRIC LOSS **P.O. 100'**

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION **Willcat**

DEPTH **2850'**

CL **2850'**

DEPTHS MEASURED FROM **LOG**

LOG **858' 288'**

CASINGS **288'**

PRODUCTION **Electric Loss**

ELECTRIC LOSS **P.O. 100'**

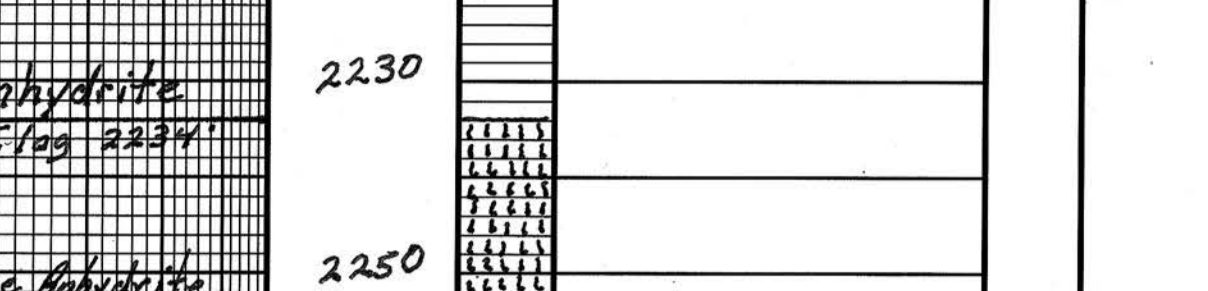
REMARKS

This well ran 3 to 4 feet lower on the Lansing top and 5 feet lower on the Altamont top than the nearby reference wells. After review of D.S.T. and open hole log data it was decided the well should be plugged and abandoned.

Richard B. Bell

9-20-16

LEGEND



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
2230	Anhydrite	Base Anhydrite		
2250	Anhydrite	Base Anhydrite		
3450	Can			
3500	Can			samples are lagged good samples
3511'	Can			
3520	Can			
3530	Can			
3540	Can			
3550	Can			
3560	Can			
3570	Can			
3580	Can			
3590	Can			
3600	Can			
3610	Can			
3620	Can			
3630	Can			
3640	Can			
3650	Can			
3660	Can			
3670	Can			
3680	Can			
3690	Can			
3700	Can			
3710	Can			
3720	Can			
3730	Can			
3740	Can			
3750	Can			
3760	Can			
3770	Can			
3780	Can			
3790	Can			
3800	Can			
3810	Can			
3820	Can			
3830	Can			
3840	Can			
3850	Can			
3860	Can			
3870	Can			
3880	Can			
3890	Can			
3900	Can			
3910	Can			
3920	Can			
3930	Can			
3940	Can			
3950	Can			30 stand short trip @ 3950'
3960	Can			
3970	Can			
3980	Can			
3990	Can			
4000	Can			
4010	Can			
4020	Can			
4030	Can			
4040	Can			
4050	Can			
4060	Can			
4070	Can			
4080	Can			
4090	Can			
4100	Can			
4110	Can			
4120	Can			
4130	Can			
4140	Can			
4150	Can			
4160	Can			
4170	Can			
4180	Can			
4190	Can			
4200	Can			
4210	Can			
4220	Can			
4230	Can			
4240	Can			
4250	Can			
4260	Can			
4270	Can			
4280	Can			
4290	Can			
4300	Can			
4310	Can			
4320	Can			
4330	Can			
4340	Can			
4350	Can			
4360	Can			
4370	Can			
4380	Can			
4390	Can			
4400	Can			
4410	Can			
4420	Can			
4430	Can			
4440	Can			
4450	Can			
4460	Can			
4470	Can			
4480	Can			
4490	Can			
4500	Can			
4510	Can			
4520	Can			
4530	Can			
4540	Can			
4550	Can			
4560	Can			
4570	Can			
4580	Can			
4590	Can			
4600	Can			
4610	Can			
4620	Can			
4630	Can			
4640	Can			
4650	Can			
4660	Can			
4670	Can			
4680	Can			
4690	Can			
4700	Can			
4710	Can			
4720	Can			
4730	Can			
4740	Can			
4750	Can			
4760	Can			
4770	Can			
4780	Can			
4790	Can			
4800	Can			
4810	Can			
4820	Can			
4830	Can			
4840	Can			
4850	Can			
4860	Can			
4870	Can			
4880	Can			
4890	Can			
4900	Can			
4910	Can			
4920	Can			
4930	Can			
4940	Can			
4950	Can			
4960	Can			
4970	Can			
4980	Can			
4990	Can			
5000	Can			

DST #1 4069'-4190'
30-60-30-60
IF: wk blw m: to 1"
FF: No blow
Recovery: 30' Mud 40%
HYD: 2050-1995#
FP: 62-69/72-78#
BHP: 1315-1310#
BHTemp: 113°F.

Trilobite Testing

DST #2 4274'-4320'
30-60-30-60
FF: wk surface blow
IF: No blow
Recovery: 2' mud
HYD: 2132-2080#
FP: 15-17/16-17#
BHP: 51-30#
BHTemp: 114°F.

Board 4322.36
Strap 4325.56
D: ff 6.80
Incline @ 4320' 1 1/2"

Trashy Samples
4440' to TD
Morrow section
heaving

Short trip 10 stands
@ 4560'
Incline @ 4560' 3/4"

CONTRACTOR _____ LOCATION _____
LEASE _____ IP _____ SEC _____ TWP _____ RNG _____
ELEVATION _____ RTD _____ COUNTY _____ STATE _____