

Schematic Well History

Culbreath Oil & Gas Co., Inc
Muench #1-16

Updated: 1/30/2017

Date: 7/24/2014
Prepared by: KB

Field (KGS):
County: Logan State: KS
API: 15-109-21074-00-00

Spot location: NE NE SW SE
Footage from Section Line: 1240' FSL - 1430' FEL
Sec: 16
Twp: 17S
Rge: 33W

COG Well #:
KB: 3046
GL: 3037
Diff: 9

CASING

Size	Weight	Grade	Depth	Cement	Date Cmt'd	Comment
8 5/8	24#	J-55	264	200	7/11/2014	Circ'd by Consolidated
5 1/2	15.5#	J-55	4643	200	7/24/2014	Circ'd by Consolidated
DV Tool			2400			

DST'S

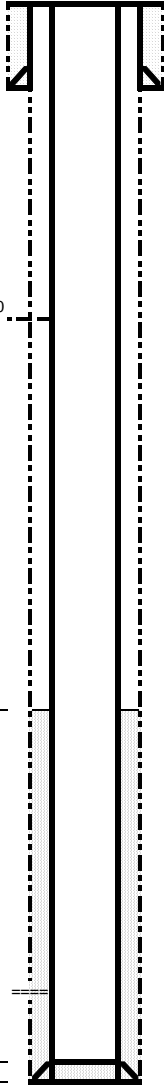
1) 4190'-4236' (LKC I Zone)	8' OSM (2% Oil)	FP 10-18/17-22; BHP1115-1095
2) 4255'-4303' (LKC K Zone)	189' MCW (74% SW), 103 HWCM (30% W)	FP 42-110/112-169; BHP1127-1089
3) 4296'-4343' (LKC L ZONE)	220' WCGCMO; 382' CO, 315' GIP	FP 18-128/137-247; BHP 1110-1096
4) 4394'-4556' (Marmaton)	275' SGCHMCO; 45' CO; 625' GIP	FP 32-72/75137; BHP 1233-1116
5) 4578'-4714' (Atoka)	84' SOCM	FP 17-32/36-43; BPH 987-57

PERFORATIONS

Formation	Top	Btm	SPF	# of holes	Date	Status
Basil Penn Sand	4664	4670	4	24		Nitrogen-gel acid frac
				0		
				0		

WELL HISTORY

1	7/11/14 - Spud at 1615, drill 266', run 8.625 cement, WOC
2	7/12/14 - Drilling ahead, 2090' @2330
3	7/13/14 - Drilling ahead 2655' @2330
4	7/14/14 - Drilling ahead 3020' @2330
5	7/15/14 - Drilling ahead 3468' @2345
6	7/16/14 - Drilling ahead 3814' @ 2415-TOH to change mud pump motor, TIH Ream down, CTCH
7	7/17/14 - Drilling ahead at 4200' @ 2400; CFS 4236, ST for DST #1
8	7/18/14 - Drilling ahead at 4303' @ 2315; CFS, 4303' make up tool, prep for DST #2
9	7/19/14 - Testing at 4343' @2145; trip out of hole with bit at 1:00 am. DST #3
10	7/20/14 - Drilling at 4514' @ 2400; CFS, ST 15 stands @0630
11	7/21/14 - Drilling at 4597' @2330, Break & lay down tool from DST #4, prep for CFS
12	7/22/14 - Testing, 4714, TIH for DST #5
13	7/23/14 - Preparing for Log at 4815 RTD; TOH for logs, rig up loggers, TIH with bit CTCH, come out laying down drill pipe,
14	7/24/14 - Preparing to run 5.5" production casing



8 5/8 @ 266'

DV Tool 2400

TOC - CBL:

2017-1-30; FL 4200' from surface

Basil Penn Sand 4664-4698

PBTD 4787
5 1/2 @ 4809
RTD 4815
LTD 4810