

#36

Interpreted Drill Cuttings Description

200/a-012-H / 094-O-09/00

Formation:

Sample Quality: NO SAMPLES
OVER MOST OF REQUIRED
INTERVAL

Well Name: APACHE OOTLA
Status/RR: N/A / 2004
TD Depth/Fmn: 1200m

UPPER RUNDLE
MIDDLE RUNDLE 2

Examined: JUL-2009
JC Consulting Inc.
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403 651-7890
File No: 2009-033

The upper Mississippian carbonates consist of siliceous / cherty LS with common dissolution porosity with estimated visible porosity in the 10-14% range and 5-10+ mD permeability.

No reported DST'S OR PERFS. No Fracture indicators.

Depth (m)	Grain	Size	Lithology	Porosity Total Poros (%)	Porosity Type Oil Shows	Perm (mD) Visually Estimated Permeability	Geological Descriptions
500	Congl v. cfs cfs med	fine v. fine Silt/extf microxln Clay/crvpto	SH: blk, blk, fissile in part, bituminous.	20 Estimated Porosity	0	0.01 Visually Estimated Permeability 0.1 10 100	SH: blk, blk, fissile in part, bituminous.
505							
510			UPPER RUNDLE	1% 10-14% dissolution	X X X	<0.02 md 5-10 mD+	LS: crypto-micro xln, wh, siliceous, v poor intxn por.
515			LS: siliceous as abv, CHERT: mottled, silicified LS, tr-com drusy qtz on ctg sfc; tr ctgs with abund vf-med gr & tr c gr sb rdd qtz grs with chert/silicified LS, rr GLAUC, EX VIS POR, 10-14%, 5-10 mD +; com lt brn OIL stained porous dissolution, 5-9%, 0.05-0.5 to pos 1-2 md.	6-9%		0.1-0.5 to pos 1-3 md	
520			NO SAMPLES BETWEEN 515-555m - LOST CIRCULATION ZONE ??				
525							
530							
535							
540			NO SAMPLES AVAILABLE				
545							
550				20 Estimated Porosity	0	0.01 Visually Estimated Permeability 0.1 10 100	
555							
560			LS: micro-xf xln, com xf-f xln, lt-dk brn with tr blk bit, sl arg in part, sl slty, 1-2% por, <0.03 md.	1-2%		<0.03 mD	
565			LS: crypto-microxln, tr vf xln, off wh-lt brn, rr crinoid, tr arg mat, mudst, p intxn por, 1-2%, <0.02 md.	1-2%		<0.02 mD	
570				1-2%		<0.02 mD	SH grading to argillaceous crypto-microxln LS, MDST, intxn por.
575							

