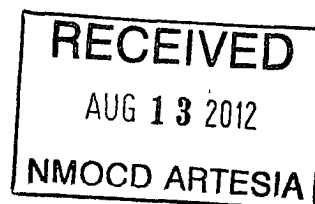


WELL REPORT SUMMARY - PAY ZONES AND GEOLOGICAL TOPS

OPERATOR: BOPCO, L.P.
WELL: J.F. Harrison Federal No. 1
LOCATION: 660' FNL & 660' FWL, SEC 12, T25S-R30E
KB: 3,379'
TD: 17,205'
API#: 3001504749



GEOLOGIST: Brian Pregger

DATE: 8/12/2012

BLM FORMATION TOPS AND DESCRIPTIONS

FORMATION	MD
Rustler	1,162'
Salado	1,268'
base/Salt	3,860'
Lamar	4,059'
Bell Canyon	4,088'
Cherry Canyon	5,006'
Lo. Cherry Canyon	6,150'
Brushy Canyon	6,221'
Bone Spring	7,904'
Avalon	8,043'
Bone Spring 1 Sand	8,848'
Bone Spring 2 Sand	9,550'
Bone Spring 3 Sand	10,845'
Wolfcamp	11,239'
Strawn	13,622'
Atoka	13,680'
Morrow	14,322'
Barnett	15,880'
Mississippian Lime	16,180'
Woodford	16,495'
Devonian	16,623'

FORMATION	TOP	BOTTOM	DESCRIPTION
Bell Canyon	4,088'	5,006'	Sandstone
Cherry Canyon	5,006'	6,221'	Sandstone
Brushy Canyon	6,221'	7,904'	Sandstone
Bone Spring	7,904'	8,043'	Limestone
Avalon	8,043'	8,848'	Shale, Sandstone
Bone Spring 1	8,848'	9,550'	Shale, Sandstone
Bone Spring 2	9,550'	10,845'	Shale, Sandstone
Bone Spring 3	10,845'	11,239'	Shale, Sandstone
Wolfcamp	11,239'	13,622'	Shale, Sandstone, Limestone
Strawn	13,622'	13,680'	Limestone
Atoka	13,680'	14,322'	Limestone, Sandstone, Shale
Morrow	14,322'	16,180'	Sandstone, Shale
Mississippian Lime	16,180'	16,623'	Limestone
Devonian	16,623'	TD	Dolomite, Limestone