

STATE OF OREGON
 DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
 910 State Office Building Portland, OR 97201

WELL SUMMARY REPORT

(In compliance with rules and regulations pursuant to ORS 520)

ARCO Oil and Gas Company Columbia County #14-23
 (Company or operator) (Lease) (Well No.)

Sec. 23, T. 6N, R. 5W W.B. & M. Surveyed Coordinates: _____

SHL: 1099.69' E & ~~102.97'~~^{56'} S of SW Corner, Sec 23 BHL: 9' E & 617.87' N of SHL

Wildcat: _____ (or) Field Name: Mist County: Columbia

Elevation of ground above sea level is 652.70 feet. All depth measurements are taken from _____
 _____ kelly bushing, which is 11' above ground.

Date: Sept 26th, 1986 Signature: Kwang U Park
 Position: District Drilling Superintendent

Commenced drilling: 8-5-86 Completed drilling: 8-11-86 P&A: N/A

Total depth: 2180' PBD: 1563' Redrill depth: N/A

Logs run: DIL/BHC/GR, FDC/CNL/GR, Dipmeter, CBT/CET

CASING RECORD	Size of hole	Size of casing	Wt. in lbs. per ft.	Grade Type	Depth	Amount of cement
			13-3/8"	48#	K-55 STC	31'
	12-1/4"	*9-5/8"	53.5#	L-80 BTC	433'	203 sx
	8-1/2"	5-1/2"	17#	K-55 LTC	1650'	510 sx
	*2 jts	9-5/8" 36#	K-55 STC at surface with second jt BTC to			
	STC crossover jt					

	GEOLOGICAL MARKER	DEPTH
Plugs 2180' - 1650' (Open Hole)	Clark & Wilson Sand	1356'
1650' - 1563' (Cement)		

Junk None

PERFORATIONS OR LINER	Size of casing	From	To	Shots/ft.	Method of Perforating		
					Jet	Bullet	Slotted Liner
	5-1/2"	1358'	1378'	4 SPF	X		
	5-1/2"	1442'	1450'	4 SPF	X		

INITIAL PRODUCTION	Date	Clean Oil bbl/day	Gravity	Percent Water	Gas MMcf/day	F.T.P.	F.C.P.	S.I.T.P.	S.I.C.P.
	8-14-86	0	-	-	3244 MCF/D	500	560	620	620