

Wellbore Schematic

Outpost 33-8-23 1				
API	TBD		Surface Elev	6579
State	Colorado		KB Elev	6604
County	La Plata		Target Formation	Mancos

Surface TD	500
Inter KOP	550
Inter TD	6314
Lateral KOP	6414
Lat Build Rate	10°/100'
Lateral TD	17698
Lateral TVD	6883

	Section/Township/Range	FNL/FSL	FEL/FWL	Lat	Long
SHL	S26 T33N R8W	837 FNL	945 FEL	37.07998	-107.68077
BHL	S22 T33N R8W	652 FSL	150 FWL	37.084125	-107.71322

Driving Directions: From the intersection of State Highway 151 and State Highway 172 in Ignacio CO, travel South on State Highway 172 for 1.24 miles. Turn right (west) onto La Plata County Road 318 and travel 2.62 miles. Turn left (south) onto gravel access road and proceed 2.21 miles to location.

Casing Summary								
	MD TD (ft)	Csg Top (ft)	Csg Btm (ft)	Hole Size (in)	Csg Size (in)	Csg (lb/ft)	Csg Grd	Csg Conn
Surface	500	0	500	17.5	13.375	54.5	J55	LTC/BTC
Intermediate	6623	0	6623	12.25	9.625	40	L80	BTC
Production	17698	0	17698	8.5	5.5	20	HCP-110	LTC/BTC

Cement Summary									
	Type	Stage	Density (lb/gal)	Yield (cu ft/sx)	% Excess	Volume (sx)	Volume (cu ft)	BOC	TOC
Surface	Type III	1	15.8	1.18	100	600	708.5	500	0
Intermediate	Type III	1	12.3	2.43	50	775	1800	4123	0
Intermediate	Type III	2	13.5	2.43	50	490	1192	6623	3814
Production	Type 1/II	1	12.3	2.43	10	176	427	6398	4814
Production	Type G	2	13.5	2.43	10	1174	2852	17698	6398

Formation	TVD	MD
San Jose	0	0
Ojo Alamo	1470	1507
Kirtland	1718	1779
Fruitland	2768	2930
Fruitland Coal	2823	2990
Pictured Cliffs	3024	3210
Lewis	3287	3498
Chacra	4553	4886
Cliffhouse	4918	5281
Menefee	5373	5745
Point Lookout	5533	5905
Base Point Lookout	5923	6295
Mancos	5975	6347

