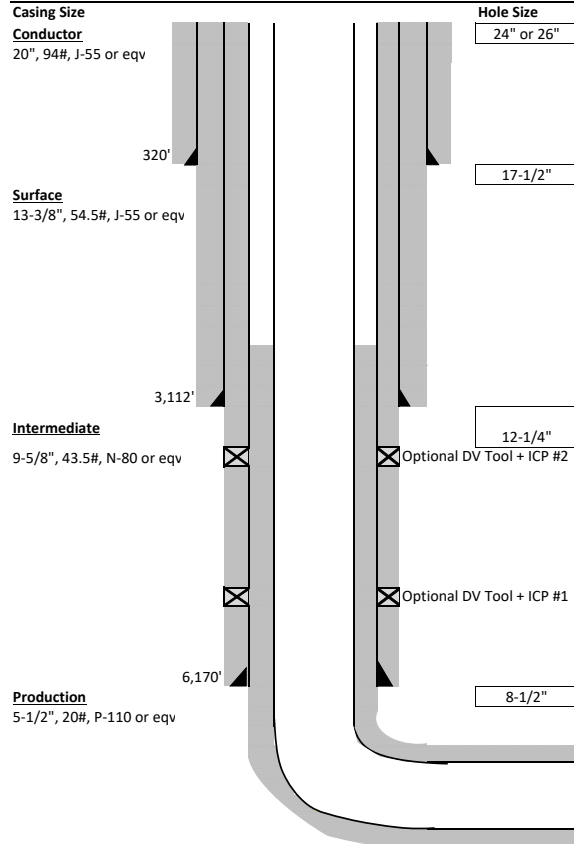


Proposed Permit Wellbore Schematic

Well Name: Ignacio 33-7 29P #1H
 Location: SHL: Sec 29, T33N, R7W 292' FSL, 1112' FEL
 County: La Plata, Co
 API #: _____
 Co-ordinates: 37.068673° N -107.627033° W

KB : 30'
 Ground Elevation: 6419.2'
 KB Elevation: 6449.2'
 TD (TVD): 6519'
 TD (MD): 16493'



Proposed Design Target Details							
Section	MD, ft KB	TVD, ft KB	NAD '83 LAT	NAD '83 LONG	TFN/SL	FE/WL	SEC/TWP/RNG
SHL	0	0	37.068673	107.627033	292' FSL	1112' FEL	29; T33N; R7W
Last Perf	7119	6654	37.069686	107.629945	651' FSL	1963' FEL	29; T33N; R7W
First Perf	16358	6521	37.069554	107.598285	650' FSL	600' FEL	27; T33N; R7W
BHL	16493	6519	37.069552	107.597822	649' FSL	465' FEL	27; T33N; R7W

Proposed Casing Design						
Interval	Hole size (in)	Depth (MD)	Csg Size	Weight (#/ft)	Grade	Conn.
Conductor	24" or 26"	320'	20"	94	J-55 or equiv	LTC/BTC
Surface	17.5"	3,112'	13.375"	54.5	J-55 or equiv	LTC/BTC
Intermediate	12.25"	6,170'	9.625"	43.5	N-80 or equiv	LTC/BTC
Production	8.5"	16,493'	5.5"	20.0	P-110 or equiv	LTC/BTC

Geological Information (based on KB)		
NAME	MD	TVD
OJO ALAMO	1,468'	1,452'
KIRTLAND	1,605'	1,584'
*FRUITLAND	2,562'	2,507'
*PICTURED CLIFFS	3,062'	2,989'
LEWIS	3,188'	3,111'
CHACRA	4,285'	4,169'
*CLIFF HOUSE	5,196'	5,048'
MENEFEE	5,277'	5,126'
*POINT LOOKOUT	5,431'	5,275'
*MANCOS	6,095'	5,921'
KICKOFF	6,253'	6,076'
LANDING PT	7,119'	6,654'
TD	16,493'	6,519'