



Chaco 2307-12E #168H LYBROOK GALLUP Horizontal

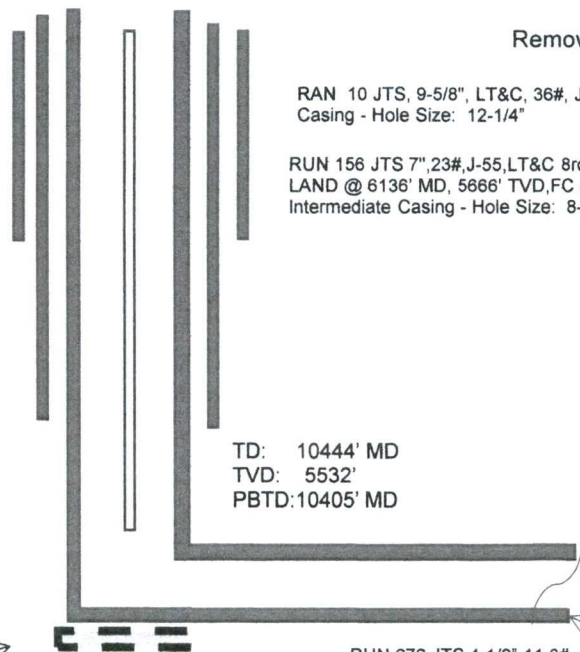
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Surface Location: 1492' FNL & 303' FWL
SW/4 NW/4 Section 12 (E), T23N, R7W

BHL: 563' FNL & 379' FWL
NE/4 NE/4 Section 11 (D), T23N, R 7W

RIO ARRIBA Co., NM
Elevation: 7036' GR
API: 30-039-31173

<i>Tops</i>	<i>MD</i>	<i>TVD</i>
Ojo Alamo	1461'	1455'
Kirtland	1597'	1587'
Pictured Cliffs	2082'	2054'
Lewis	2200'	2167'
Chacra	2560'	2514'
Cliff House	3662'	3576'
Menefee	3717'	3629'
Point Lookout	4465'	4354'
Mancos	4683'	4569'
Gallup	5096'	4981'



RAN 10 JTS, 9-5/8", LT&C, 36#, J-55, CSG SET @ 442'. FC @ 398'
Casing - Hole Size: 12-1/4"

RUN 156 JTS 7", 23#, J-55, LT&C 8rd, CASING.
LAND @ 6136' MD, 5666' TVD, FC @ 6095 MD
Intermediate Casing - Hole Size: 8-3/4"

TD: 10444' MD
TVD: 5532'
PBTD: 10405' MD

Tubing/Rod detail: HPJSM. TP/O CP/O BH/O/PSI.
OPEN TO TANK, NIPPLE DOWN BOP SET TAC
W/ 12K TENSION, LANDED WELL NIPPLE UP B-2
WELL HEAD FLANGE, RATIGAN AND FLOW
TEE. RIGGED UP ROD HANDELLING
EQUIPMENT AND ROD TABLE RIHW 1-25' X 1'
DIP TUBE 2" X 1 1/4" X 12' X 14' RHBC W/ MAX
STROKE OF 100" 24-7/8 X 4 PER 2" GUIDED
RODS 27-3/4 X 4 PER 2" GUIDED RODS 29-3/4 X
6 PER 2" GUIDED RODS 87-3/4 X 4 PER 2"
GUIDED RODS
29-3/4 X 6 PER 2" GUIDED RODS 17-3/4 SLICK
RODS 3-8' 3/4 PONY RODS 1 1/4 X 26' CENTER
SPRAY POLISHED ROD SPACED OUT PER
BLACK ARROWS RECOMMENDATIONS.
LOADED TUBING PRESSURE TESTED TO 500#
PRESSURE HELD GOOD TEST. STROKED ROD
PUMP WITH THE RIG PRESSURED UP TO 300#

8-3/4" pilot hole TD @
6175' drilled for logs,
Plugged back to 3577'.

RUN 272 JTS 4-1/2" 11.6#, N-80, 8RD
LT&C CASING. SET @ 10433' MD
(5532' TVD), MARKER JTS @ 9096',
7561' AND 5102 MD. FC SET @ 10405'
Production Casing - Hole Size: 6-1/8"

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
12-1/4"	9-5/8"	225 sx	298cu.ft.	Surface
8-3/4"	7"	1035 sx	1440 cu.ft.	Surface
6-1/8"	4-1/2"	420 sx	571cu. ft.	3750' TOC