NE CHACO COM #173H CHACO UNIT NE HZ (OIL)()(page 1)

Spud: 6/23/14

Completed: 12/2/14

SHL: 1205' FNL & 484' FWL

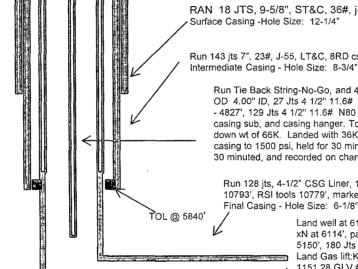
NW/4 NW/4 Section 13(D), T23N, R7W

BHL: 1209' FNL & 97' FEL

NE/4 NE/4 Section 15 (A), T23N, R 7W

RIO ARRIBA NM Elevation: 7014' API: 30-039-31207

Tops	MD	TVD
OJO_ALAMO	1372	1369
KIRTLAND	1695	1690
PICTURE_CLIFFS	2010	2004
LEWIS	2087	2080
CHACRA	2429	2422
CLIFF_HOUSE	3512	3500
MENEFEE	3569	3556
PT_LOOKOUT	4311	4294
MANCOS	4480	4462
GALLUP	4889	4871



TD: 10871' MD TVD: 5501' PBTD: 10793' MD

RAN 18 JTS, 9-5/8", ST&C, 36#, i-55, CSG SET @ 396', FC @ 349'

Run 143 its 7", 23#, J-55, LT&C, 8RD csg, landed @ 5980', FC @ 5935'

Run Tie Back String-No-Go, and 4 1/2" 11.6# N80 casing as follows; Seal Assembly with No-Go 5.85" OD 4.00" ID, 27 Jts 4 1/2" 11.6# N80 casing, 20' X 4 1/2" 11.6# N80 casing sub/ Marker Jt set @ 4807' - 4827', 129 Jts 4 1/2" 11.6# N80 casing 4.20', 2.02' casing subs. 1 Jt 4 1/2 " 11.6# N80 casing, 1 X 2.55' casing sub, and casing hanger. Total length of all Tubulars ran in well = 5839'. Had an up wt of 76K and down wt of 66K. Landed with 36K on liner top and leaving 30K on hanger. Antelope psi test 4 1/2" casing to 1500 psi, held for 30 minutes, and recorded on chart. Psi tested 7" X 4 1/2" to 1500 psi, held for 30 minuted, and recorded on chart. All tests were good.

Run 128 its, 4-1/2" CSG Liner, 11.6#, N-80, LT&C, 8RD CSG set @ 10869' (TVD 5501'), LC @ 10793', RSI tools 10779', marker its @ 7504' & 9141', TOL @5840'

Final Casing - Hole Size: 6-1/8"

Land well at 6118' w/ 14' KB as follows 1/2 MS, 7 Jt of 2.375" J55 4.7lb 8rnd EUE tbg, 1.87" xN at 6114', packer 2.375" by 4-1/2 @ 5878', on/off tool with 1.87 FN @ 5512', 2.31" XN @ 5150', 180 Jts of 2.375" J55 4.7lb 8rnd EUE tbg 187 its total Land Gas lift; KB 14.5 ELEVATION Hanger 0.80, 14.80 Tubing Hanger 35its, 1136.48,-1151.28 GLV #9 4.10 1155.38 GAS LIFT VALVE 25jts, 811.57,- 1966.95 GLV #8 4.10 1971.05 GAS LIFT VALVE 19its, 616.80, - 2587.85 GLV #7 4.10, - 2591.95 GAS LIFT VALVE 15jts, 487.09, - 3079.04' GLV # 6 4.10 3083.14 GAS LIFT VALVE 16jts, 514.20,-3597.34 GLV # 5 4.10,- 3601.44 GAS LIFT VALVE 15jts, 471.63,- 4073.07GLV # 4, 4.10,-4077.17 GAS LIFT VALVE 16its, 518.14 4595.31 GLV # 3 4.10.- 4599.41 GAS LIFT VALVE 15jts, 486.57,- 5085.98 GLV # 2 4.10,- 5090.08 GAS LIFT VALVE 13its, 422.09,- 5512.17 X-nipple 1.00,- 5513.17 1.87" X-nipple 10 324.48,= 5837.65 GLV # 1 4.10,- 5841.75 Screened Orifice 1.it, 32.47.- 5874.22 SUB 4.05 5878.27 On/Off 1.70.- 5879.97 On/Off tool w/ 1.81" F PKR 6.20, - 5886.17 4.5" AS-1X Packer 7its, 227.22, - 6113.39 2-3/8"-4.7#-J55 Tubing R-nipple 1.00, 6114'.39, 1.78" R-nipple HM 3.35,- 6117.74 2-3/8" Half Mule Shoe EOT 6117.74 End Of Tubing

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
12-1/4"	9-5/8"		222 cu.ft.	
8-3/4"	7"		1308 cu. ft.	Surface
6-1/8"	4-1/2"	390 s x	509 cu. ft.	TOL 5840' :
		anner bereiche geschieber von geschreibsten der ersten der	·	ennin zarienier (,) zwydoszinieński klase. Miszere zagramen-

OIL CONS. DIV DIST. 3

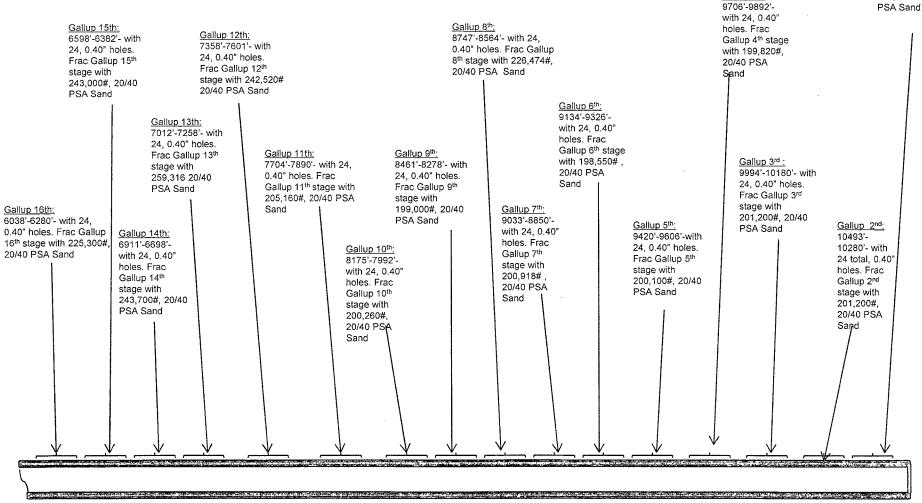
DEC 1 0 2014

Lg 12/8/14

NE CHACO COM #173H CHACO UNIT NE HZ (OIL)(page 2 – lateral with completion)

Gallup 1st: 10594'-10719' + RSI TOOL @ 10779' with 18, 0.40" holes with 199,000 # 20/40 PSA Sand

Gallup 4th:



See page 1 for upper portion of hole

OIL CONS. DIV DIST. 3
DEC 1 0 2014