NE CHACO COM #201H CHACO UNIT NE HZ (OIL)(page 1)

Spud: 10/3/14

Completed: 12/29/14

SHL: 1307' FNL & 321' FWL SW/4 NW/4 Section 17(E), T23N, R6W

BHL: 76' FSL & 451' FWL

SW/4 SW/4 Section 7 (M), T23N, R 7W

RIO ARRIBA NM Elevation: 6910 API: 30-039-31256

Tops	MD	TVD
Ojo Alamo	1366	1354
Kirtland	1679	1649
Picture Cliffs	2037	1984
Lewis	2134	2074
Chacra	2471	2388
Cliff House	3632	3474
Menefee	3684	3523
Point Lookout	4437	4248
Mancos	4649	4458
Gallup	5051	4860

RAN 13 jts. 9 5/8" 36# J55 L/S LT&C csg, set @ 415', FC @ 380' Surface Casing -Hole Size: 12-1/4" Run 139 jts 7", 23#, J-55, LT&C csg. Landed @ 6162', FC @ 6114' Intermediate Casing - Hole Size: 8-3/4" Run Tie Back String-Start in hole with P110 4 1/2 tie back string, Drift, Tally, PU, TIH with seal assembly, No-Go, and 4 1/2" P110 casing as follows; Seal Assembly with No-Go 5.85" OD 4.00" ID, 36 Jts 4 1/2" 11.6# N80 casing, 19.76' X 4 1/2" 11.6# N80 casing sub/ Marker Jt set @ 4487.39' - 4507.39', 114 Jts 4 1/2" 11.6# N80 casing, 9.97", 8.06',8.32', 2.09',.77' casing subs, 1 Jt 4 1/2 " 11.6# N80 casing, 1 X 4' casing sub, and casing hanger. Total length of all Tubulars ran in well = 5968.32'. Had an up wt of 56K and down wt of 42K. Landed with 24K on liner top and leaving 18K on hanger. Total with KB difference is 5960'Pressure test 4.5" casing to 1500 psi for 30 min. test good. Pressure test 4.5 x 7" casing to 1500 psi for 30 min test good Run 141 jts, 4-1/2" CSG Liner, 11.6#, N-80, LT&C. 8RD CSG set @ 11356' ,LC @ 11274', RSI TOL @ 5887' tools 11259', marker its @ 6756' & 9056', TOL @5887' Final Casing - Hole Size: 6-1/8" TD: 11369' MD

Land well at 6007' w/ 14.5' KB as follows 1/2 MS, 1 Jt of 2.375" J55 4.7lb 8rnd EUE tbg, 1.50" FN at 5975', 184 Jts of 2.375" J55 4.7lb 8rnd EUE tbg 185 jts total

·TVD: 5475' PBTD: 11274' MD

CONFIDENTIAL

Lg 12/30/14

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
12-1/4"	9-5/8"	245 sx	222 cu.ft.	Surface
8-3/4"	7"	997 s x	1461 cu. ft.	Surface
6-1/8"	4-1/2"	400 s x	400 cu. ft.	TOL 5887'
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OIL CONS. DIV DIST. 3 JAN 09 2015

NE CHACO COM #201H + RSI TOOL Gallup 4th: **CHACO UNIT NE HZ (OIL)** @ 11262' 10216'-10402'-213,500 with 24, 0,40" (page 2 - lateral with completion) Gallup_16th: 20/40 PSA holes, Frac 6784'-6970'- with Gallup 4th stage Sand 24, 0,40" holes. with 220,140#, Gallup 13th: Frac Gallup 16th 9075'-9253'- with 24. 20/40 PSA Gallup 18th: 7642'-7828'- with stage with 0.40" holes. Frac Gallup Sand 6212'-6398'- with 267.305#, 20/40 24. 0.40" holes. 8th stage with 215,960#, 24. 0.40" holes. Frac Gallup 13th PSA Sand 20/40 PSA Sand Frac Gallup 18th Gallup 11th: Gallup 6th: stage with 8214'-8400'- with 24. 9644'-9830'stage with 217,272#, 20/40 0.40" holes, Frac 261,650#, 20/40 with 24, 0.40" PSA Sand Gallup 11th stage with holes. Frac Gallup 3rd: PSA Sand 214,943#, 20/40 PSA 10502'-10691'-Gallup 6th stage with 24, 0.40" with 213,552#, holes. Frac Gallup 20/40 PSA Gallup 9th: 3rd stage with Sand 8786'-8972'- with 219,107#, 20/40 24, 0.40" holes. Gallup 12th: PSA Sand Gallup 15th: Frac Gallup 9th 7928'-8114'- with Gallup 7th: 7070'-7256'- with stage with 24. 0.40" holes. 9358'-9544'-24, 0,40" holes. Frac Gallup 12th 213,504#, 20/40 with 24, 0.40" Frac Gallup 15th Gallup 5th: stage with 218,000# PSA Sand holes. Frac 9925'-10111'stage with 20/40 PSA Sand Gallup 2nd: Gallup 7th 266,600#, 20/40 with 24, 0.40" 10788'-Gallup 10th: stage with holes. Frac PSA Sand 10974'- with 8504'-8686'-215,680# Gallup 5th stage 24 total, 0.40" with 24, 0.40" 20/40 PSA Gallup 14th: with 215,905#, holes. Frac Gallup 17th: 7356'-7542'holes. Frac Sand 20/40 PSA Gallup 2nd 6498'-6684'- with Gallup 10th with 24, 0.40" Sand stage with 24. 0.40" holes. Frac stage with 216.000#. holes.Frac Gallup 216.751#. Gallup 14th 20/40 PSA 17th stage with 20/40 PSA stage with Sand 267.853#, 20/40 Sand 264,205#, 20/40 PSA Sand PSA Sand

Gallup 1st:

11074'-11199'