

CONFIDENTIAL

Chaco 2408 25M #237H
Lybrook Gallup (page.1)

Spud: 5/5/14

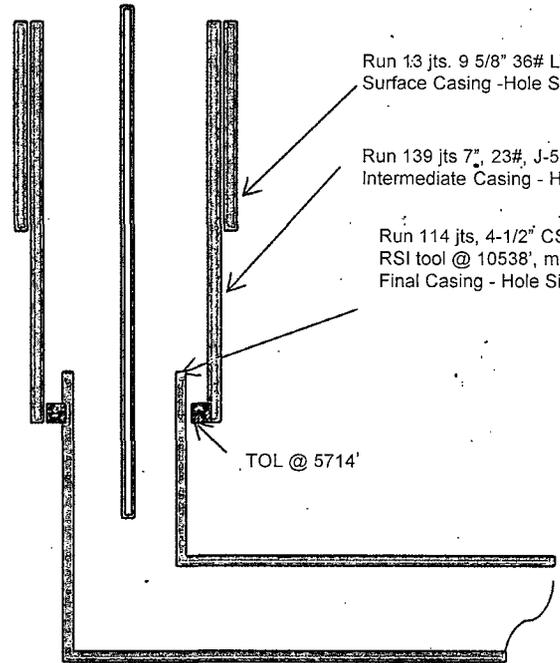
Completed: 1/26/15

SHL: 261' FSL & 330' FWL
 SW/4 SW/4 Section 25(M), T24N, R8W

BHL: 897' FSL & 202' FWL
 SW/4 SW/4 Section 26 (M), T24N, R8W

SAN JUAN NM
 Elevation: 6846'
 API: 30-045-35499

Tops	MD	TVD
OJO_ALAMO	1193	1193
KIRTLAND	1331	1331
PICTURE_CLIFFS	1856	1856
LEWIS	1952	1952
CHACRA	2275	2275
CLIFF_HOUSE	3336	3336
MENEFEE	3389	3389
PT_LOOKOUT	4185	4185
MANCOS	4443	4443
GALLUP	4818	4818



Run 133 jts. 9 5/8" 36# LT&C J-55 csg, set @ 412', FC @ 377'
 Surface Casing - Hole Size: 12-1/4"

Run 139 jts 7", 23#, J-55, LT&C csg. Landed @ 5892', FC @ 5847'
 Intermediate Casing - Hole Size: 8-3/4"

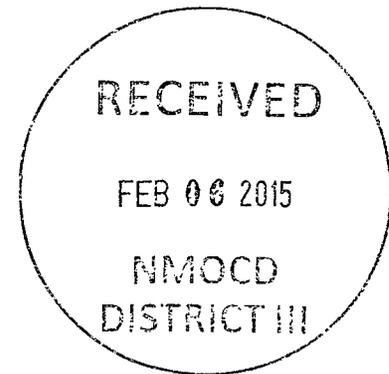
Run 114 jts, 4-1/2" CSG Liner, 11.6#, P-110, LT&C. 8RD CSG set @ 10640', LC @ 10547',
 RSI tool @ 10538', marker jts @ 6134', 8334', TOL @ 5714'
 Final Casing - Hole Size: 6-1/8"

Land tbg @ 5,852' as Follows: Hanger, KB 14.50' 35jts of 2.7/8" 6.5# J-55tbg, GLV #9 @ 1,155' 21jts of 2.7/8" 6.5# J-55tbg, GLV #8 @ 1,842', 18jts of 2.7/8" 6.5# J-55tbg. GLV #7 @ 2,432' 16jts 2.7/8" 6.5# J-55tbg, GLV #6 @ 2,956' 15jts of 2.7/8" 6.5# J-55tbg, GLV #5 @ 3,448', 15jts of 2.7/8" 6.5# J-55tbg, GLV #4 @ 3,939', 15jts of 2.7/8" 6.5# J-55tbg, GLV #3 @ 4,430' 16jts of 2.7/8" 6.5# J-55tbg, GLV #2 @ 4,955' 15jts of 2.7/8" 6.5# J-55tbg, 5,444' pro-nipple 2.31, 6jts of 2.7/8" 6.5# J-55tbg, GLV #1 @ 5,643', 1jt of 2.7/8" 6.5# J-55tbg @ 5,675', 4' Pup jt, 7"X 2.7/8" T-2 ON & Off Tool w/ 2.25 F-Nipple @ 5,681', 7"X 2.7/8" Arrowset, 1- X 10 K packer @ 5,689' X over 4jts 2.375tbg @ 5,818', 2.375 X 1.87 " X Nipple' @ 5,819', 1jt of 2.375 4.7# J-55tbg @ 5,852', 2.375 1/2 Mull shoe @ 5,852' EOT, Packer was set at 10 K tension, Total 173jt 2.7/8 6.5# J-55 8rd tbg, Total 5jt 2.375 4.7# J-55 EUE 8 rd, 70% Degrees.

TD: 10644' MD
 TVD: 5475'
 PBDT: 10547' MD

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
12-1/4"	9-5/8"	245 sx	222 cu.ft.	Surface
8-3/4"	7"	932 sx	1383 cu. ft.	Surface
6-1/8"	4-1/2"	375 sx	532 cu. ft.	TOL 5714'

MJ 2/2/15



IV

Chaco 2408 25M #237H

Lybrook Gallup

(page 2 – lateral with completion)

Gallup 1st:
10349'-10474' +
RSI TOOL @
10538' with
250,230 # 20/40
PSA Sand

Gallup 4th:
9491'-9677'-
with 24, 0.40"
holes. Frac
Gallup 4th stage
with 219,704#,
20/40 PSA
Sand

Gallup 8th:
8347'-8533'- with 24,
0.40" holes. Frac Gallup
8th stage with 222,138#,
20/40 PSA Sand

Gallup 6th:
8919'-9105'-
with 24, 0.40"
holes. Frac
Gallup 6th stage
with 224,990# ,
20/40 PSA
Sand

Gallup 3rd :
9777'-9963'- with
24, 0.40" holes.
Frac Gallup 3rd
stage with
205,041#, 20/40
PSA Sand

Gallup 2nd:
10063'-10249'-
with 24 total,
0.40" holes.
Frac Gallup 2nd
stage with
214,500#, 20/40
PSA Sand

Gallup 7th:
8628'-8819'-
with 24, 0.40"
holes. Frac
Gallup 7th
stage with
214,500# ,
20/40 PSA
Sand

Gallup 5th:
9206'-9391'-with
24, 0.40" holes.
Frac Gallup 5th
stage with
222,317#, 20/40
PSA Sand

Gallup 10th:
7745'-7946'-
with 24, 0.40"
holes. Frac
Gallup 10th
stage with
218,246#,
20/40 PSA
Sand

Gallup 11th:
7459'-7645'- with 24,
0.40" holes. Frac
Gallup 11th stage with
217,109#, 20/40 PSA
Sand

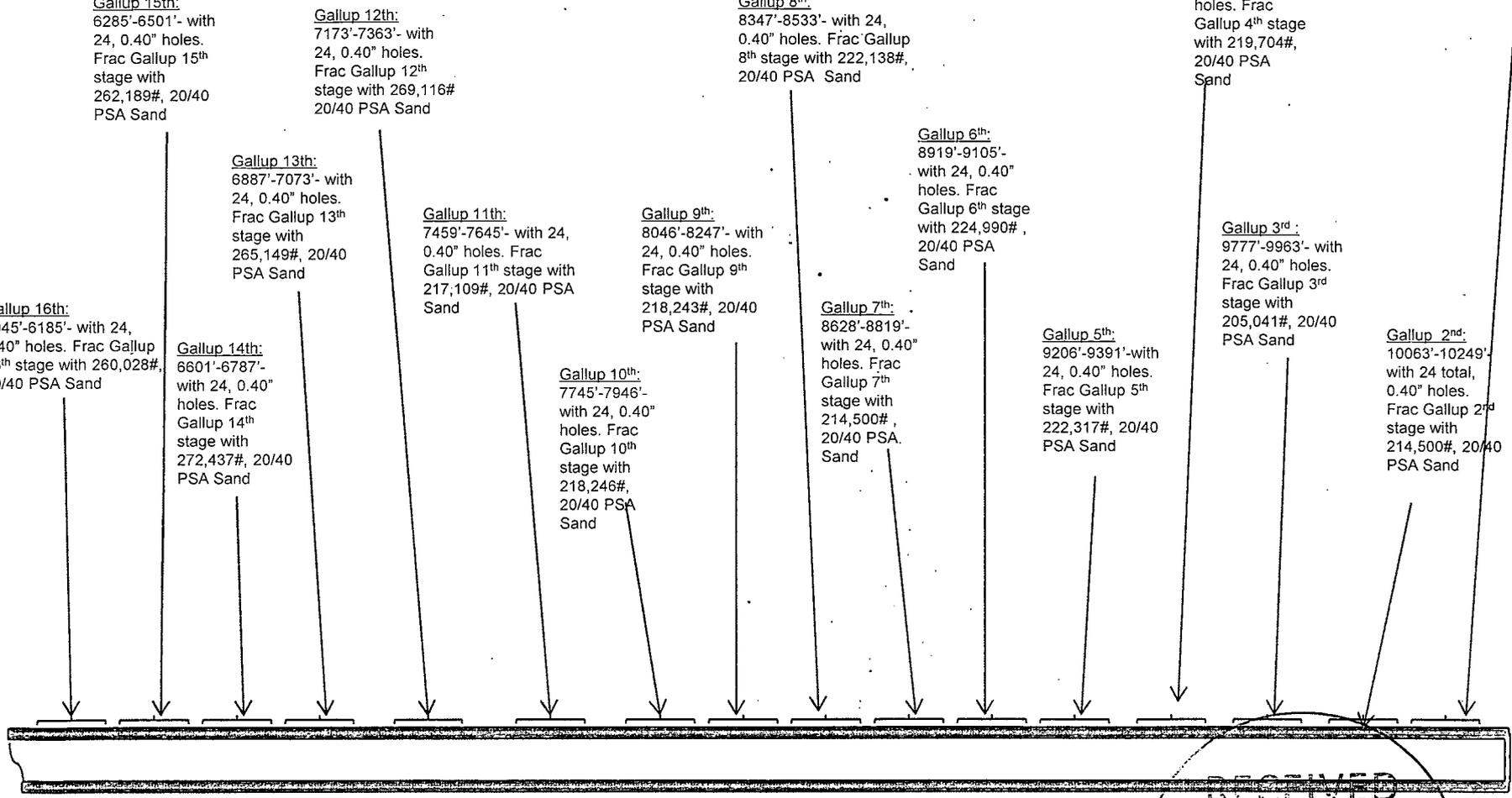
Gallup 13th:
6887'-7073'- with
24, 0.40" holes.
Frac Gallup 13th
stage with
265,149#, 20/40
PSA Sand

Gallup 14th:
6601'-6787'-
with 24, 0.40"
holes. Frac
Gallup 14th
stage with
272,437#, 20/40
PSA Sand

Gallup 12th:
7173'-7363'- with
24, 0.40" holes.
Frac Gallup 12th
stage with 269,116#
20/40 PSA Sand

Gallup 15th:
6285'-6501'- with
24, 0.40" holes.
Frac Gallup 15th
stage with
262,189#, 20/40
PSA Sand

Gallup 16th:
5945'-6185'- with 24,
0.40" holes. Frac Gallup
16th stage with 260,028#,
20/40 PSA Sand



See page 1 for upper portion of hole

