

Chaco 2306-19E #188H

LYBROOK GALLUP Horizontal

(page 1)

Spud: 4/9/14

Completed: 9/10/14

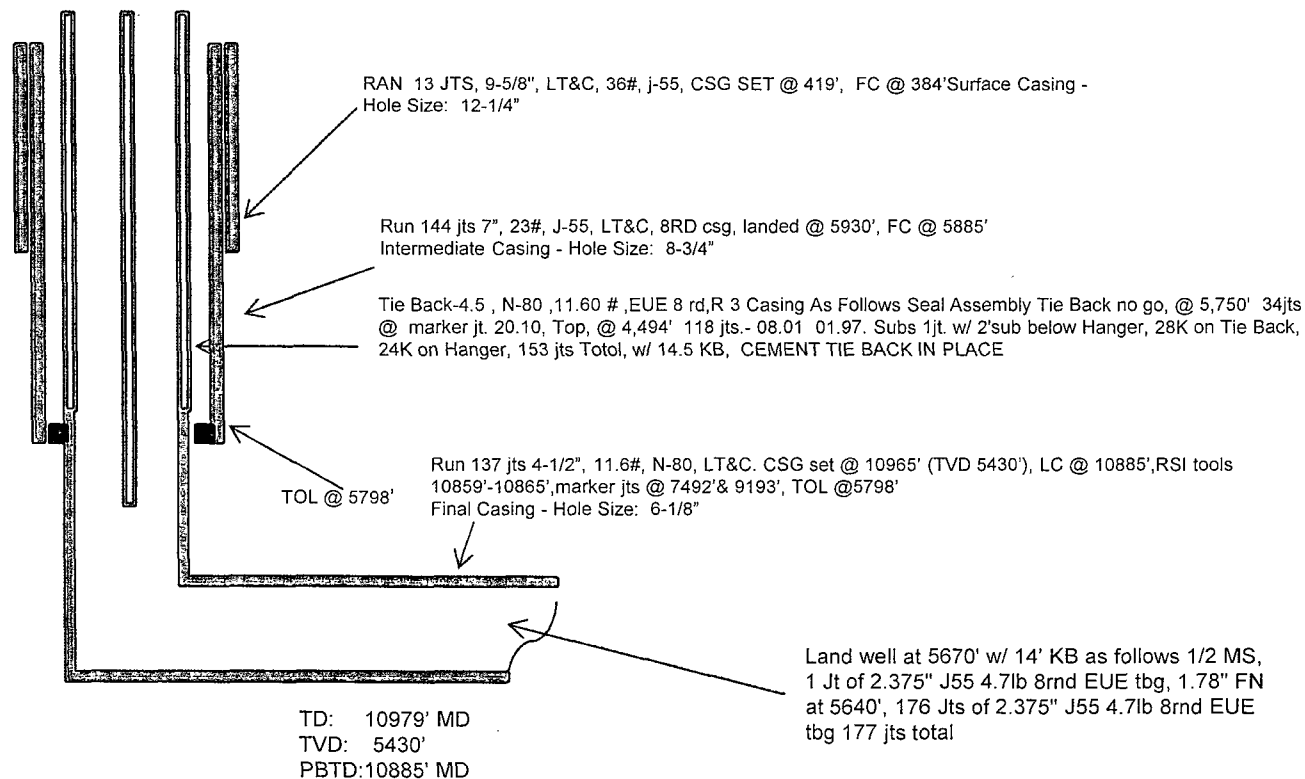
CONFIDENTIAL

SHL: 1779' FNL & 302' FWL
SW/4 NW/4 Section 19 (E), T23N, R6W

BHL: 930' FNL & 222' FWL
NW/4 NW/4 Section 15 (D), T23N, R 7W

SANDOVAL NM
Elevation: 6965'
API: 30-043-21136

Tops	MD	TVD
Ojo Alamo	1324'	1316'
Kirtland	1619'	1611'
Pictured Cliffs	1923'	1913'
Lewis	2028'	2017'
Chacra	2346'	2332'
Cliff House	3443'	3420'
Menefee	3458'	3435'
Point Lookout	4222'	4193'
Mancos	4397'	4367'
Gallup	4830'	4800'



HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
12-1/4"	9-5/8"	245 sx	222 cu.ft.	Surface
8-3/4"	7"	892 sx	1461 cu. ft.	Surface
6-1/8"	4-1/2"	390 sx	573 cu. ft.	TOL 5798'
7"	TIEBACK	510 sx	726 cu ft	Surface

Lg 9/16/14

AV

Chaco 2306-19E #188H

LYBROOK GALLUP

Horizontal

Gallup 16th:
5948'-6150'-with 24, 0.40"
holes. Frac Gallup 16th
stage with 226,000#,
20/40 PSA Sand

Gallup 13th:
6911'-7150'- with
24, 0.40" holes.
Frac Gallup 13th
stage with
199,500# , 20/40
PSA Sand

Gallup 14th:
6560'-6762'- with
24, 0.40"
holes. Frac Gallup
14th stage with
208,817# , 20/40
PSA Sand

Gallup 15th:
6259'-6461'- with 24,
0.40" holes. Frac
Gallup 15th stage with
225,400# , 20/40 PSA
Sand

Gallup 12th:
7242'-7416'- with
24, 0.40" holes.
Frac Gallup 12th
stage with 200,000#
20/40 PSA Sand

Gallup 11th:
7513'-7685'- with 24,
0.40" holes. Frac
Gallup 11th stage with
202,000# , 20/40 PSA
Sand

Gallup 10th:
7794'-8011'-
with 24, 0.40"
holes. Frac
Gallup 10th
stage with
199,000# ,
20/40 PSA
Sand

Gallup 9th:
8120'-8352'- with
24, 0.40" holes.
Frac Gallup 9th
stage with
201,800# , 20/40
PSA Sand

Gallup 8th:
8551'-8798'- with
24, 0.40" holes.
Frac Gallup 8th
stage with
200,900# , 20/40
PSA Sand

Gallup 7th:
8897'-9144'-
with 24, 0.40"
holes. Frac
Gallup 7th
stage with
199,000# ,
20/40 PSA
Sand

Gallup 6th:
9243'-9445'-
with 24, 0.40"
holes. Frac
Gallup 6th stage
with 200,000# ,
20/40 PSA
Sand

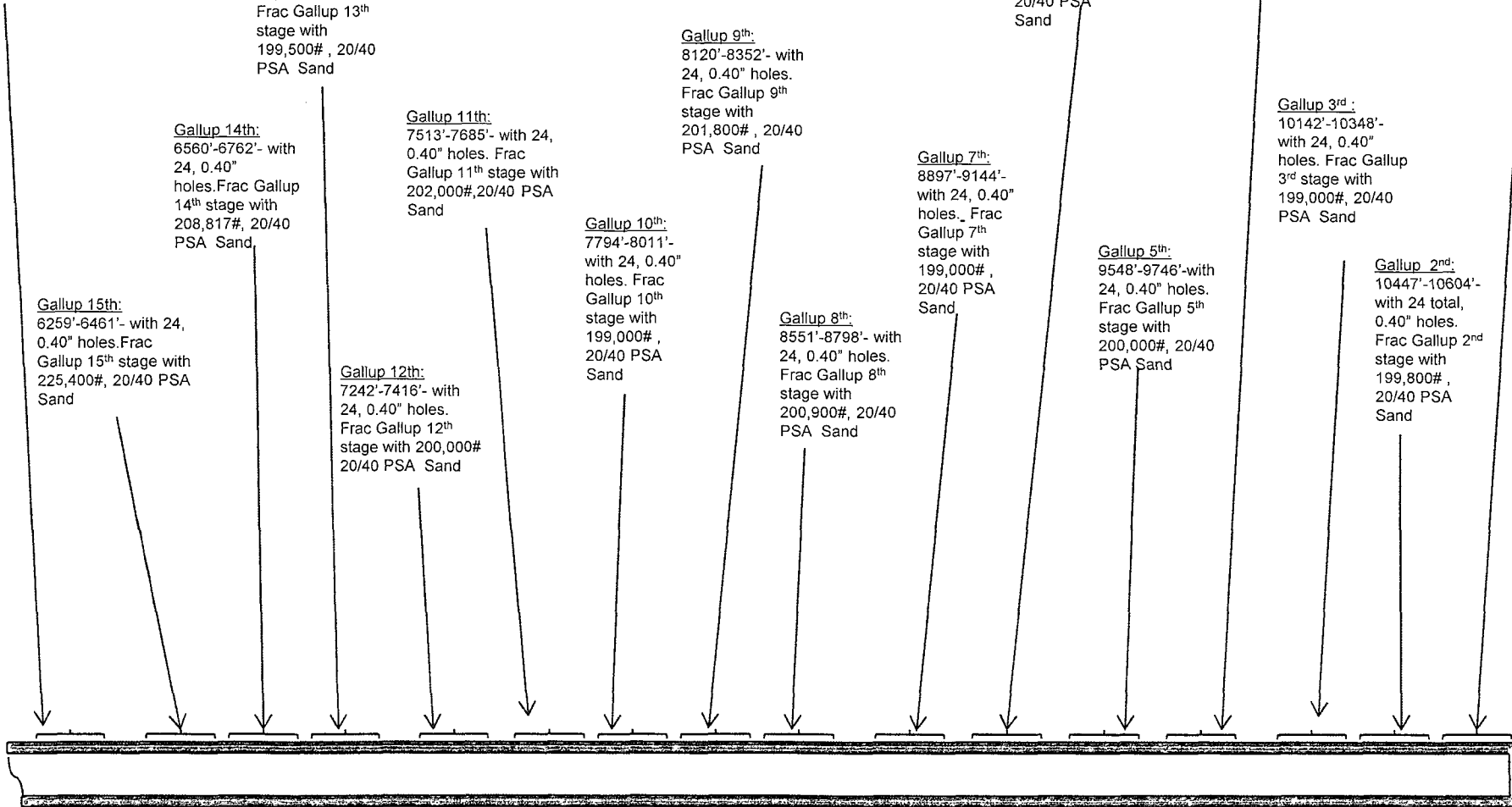
Gallup 5th:
9548'-9746'-with
24, 0.40" holes.
Frac Gallup 5th
stage with
200,000# , 20/40
PSA Sand

Gallup 4th:
9840'-10047'-
with 24, 0.40"
holes. Frac
Gallup 4th stage
with 201,184# ,
20/40 PSA
Sand

Gallup 3rd :
10142'-10348'-
with 24, 0.40"
holes. Frac Gallup
3rd stage with
199,000# , 20/40
PSA Sand

Gallup 2nd:
10447'-10604'-
with 24 total,
0.40" holes.
Frac Gallup 2nd
stage with
199,800# ,
20/40 PSA
Sand

Gallup 1st:
10703'-10808' +
RSI TOOL @
10865' with 18,
0.40" holes
with 200,100 #
20/40 PSA
Sand



See page 1 for upper portion of hole