

Chaco 2308-04P #406H

Basin Mancos_{page 1)}

Spud: 9/22/14

Completed: 11/1514

OIL CONS. DIV DIST. 3
NOV 24 2014

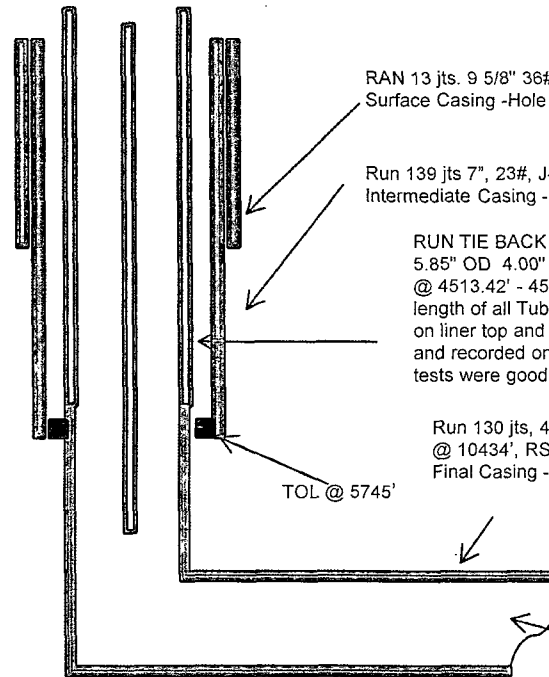
SHL: 1323' FSL & 208' FEL
SE/4 SE/4 Section 4(P), T23N, R8W

BHL: 1052' FSL & 230' FWL
SW/4 SW/4 Section 4 (M), T23N, R 8W

SAN JUAN NM
Elevation: 6876'
API: 30-045-35587

CONFIDENTIAL

Tops	MD	TVD
OJO_ALAMO	1101	1097
KIRTLAND	1282	1272
PICTURE_CLIFFS	1658	1636
LEWIS	1774	1747
CHACRA	2076	2039
CLIFF_HOUSE	3200	3126
MENEFEE	3256	3180
PT_LOOKOUT	4139	4039
MANCOS	4333	4233
GALLUP	4692	4590



RAN 13 jts. 9 5/8" 36# L/S LT&C csg, set @ 411', FC @ 377'
Surface Casing -Hole Size: 12-1/4"

Run 139 jts 7", 23#, J-55, LT&C, 8RD csg, landed @ 5874', FC @ 5829'
Intermediate Casing - Hole Size: 8-3/4"

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, 33 Jts 4 1/2" 11.6# N80 casing, 17.95' X 4 1/2" 11.6# N80 casing sub/ Marker Jt set @ 4513.42' - 4531.37', 121 Jts 4 1/2" 11.6# N80 casing, 1 X 2.55' casing sub, and casing hanger. Total length of all Tubulars ran in well = 5746.31' . Had an up wt of 60K and down wt of 52K. Landed with 40K on liner top and leaving 12K 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 minutes, and recorded on chart. All tests were good.

Run 130 jts, 4-1/2" CSG Liner, 11.6#, N-80, LT&C. 8RD CSG set @ 10513' (TVD 5275'), LC @ 10434', RSI tools 10420', marker jts @ 7363' & 8897', TOL @5745'
Final Casing - Hole Size: 6-1/8"

TOL @ 5745'

Land well at 5516' w/ 14.5' KB as follows 1/2 MS, 1 Jt of 2.375" J55 4.7lb 8rnd EUE tbg, 1.50" FN at 5586', 179 Jts of 2.375" J55 4.7lb 8rnd EUE tbg 180 jts total

TD: 10525' MD
TVD: 5275'
PBSD: 10434' MD

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"	360 sx	563 cu. ft.	TOL 5745'

Lg 11/18/14

Ar

NOV 24 2014

Chaco 2308-04P #406H

Basin Mancos page 1)

(page 2 – lateral with completion)

Gallup 1st:
10174'-10358'- with
196,800 # 20/40
PSA Sand

Gallup 4th:
9316'-9502'-
with 24, 0.40"
holes. Frac
Gallup 4th stage
with 211,000#,
20/40 PSA
Sand

Gallup 6th:
8654'-8885'-
with 24, 0.40"
holes. Frac
Gallup 6th stage
with 200,500# ,
20/40 PSA
Sand

Gallup 3rd:
9602'-9788'- with
24, 0.40" holes.
Frac Gallup 3rd
stage with
200,600#, 20/40
PSA Sand

Gallup 2nd:
9888'-10074'-
with 24 total,
0.40" holes.
Frac Gallup
2nd stage with
206,000#,
20/40 PSA
Sand

Gallup 5th:
8985'-9216'-with
24, 0.40" holes.
Frac Gallup 5th
stage with
201,000#, 20/40
PSA Sand

Gallup 7th:
8308'-8554'-
with 24, 0.40"
holes. Frac
Gallup 7th
stage with
202,510# ,
20/40 PSA
Sand

Gallup 9th:
7736'-7922'- with
24, 0.40" holes.
Frac Gallup 9th
stage with
198,400#, 20/40
PSA Sand

Gallup 10th:
7420'-7636'-
with 24, 0.40"
holes. Frac
Gallup 10th
stage with
201,500#,
20/40 PSA
Sand

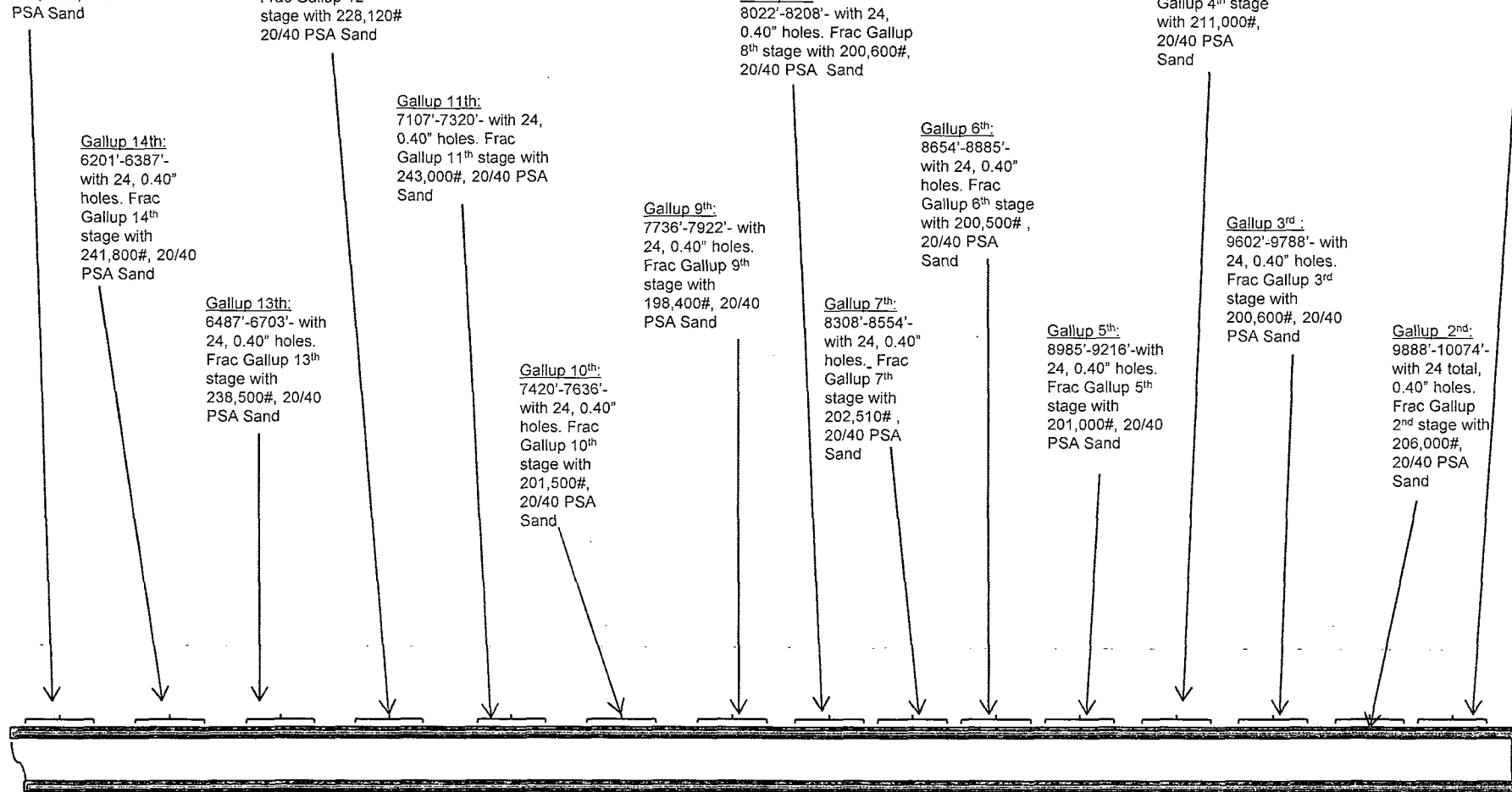
Gallup 11th:
7107'-7320'- with 24,
0.40" holes. Frac
Gallup 11th stage with
243,000#, 20/40 PSA
Sand

Gallup 13th:
6487'-6703'- with
24, 0.40" holes.
Frac Gallup 13th
stage with
238,500#, 20/40
PSA Sand

Gallup 14th:
6201'-6387'-
with 24, 0.40"
holes. Frac
Gallup 14th
stage with
241,800#, 20/40
PSA Sand

Gallup 12th:
6800'-7035'- with
24, 0.40" holes.
Frac Gallup 12th
stage with 228,120#
20/40 PSA Sand

Gallup 15th:
5912'-6100'- with
24, 0.40" holes.
Frac Gallup 15th
stage with
238,500#, 20/40
PSA Sand



See page 1 for upper portion of hole