

# Chaco 2308 11A #408H

## Basin Mancos

(page 1)

Spud: 11/24/14

Completed: 2/19/15

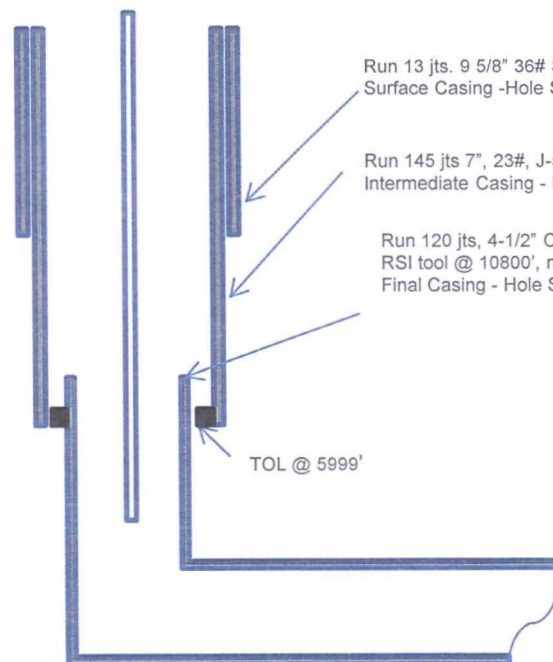
# CONFIDENTIAL

SHL: 386' FNL & 1062' FEL  
NE/4 NE/4 Section 11(A), T23N, R8W

BHL: 2479' FNL & 241' FEL  
SE/4 NE/4 Section 12 (H), T23N, R8W

SAN JUAN NM  
Elevation: 7011'  
API: 30-045-35563

Tops	MD	TVD
OJO_ALAMO	1131	1125
KIRTLAND	1448	1433
PICTURE_CLIFFS	1835	1808
LEWIS	1949	1918
CHACRA	2262	2219
CLIFF_HOUSE	3387	3302
MENEFEE	3435	3348
PT_LOOKOUT	4298	4177
MANCOS	4502	4372
GALLUP	4870	4729



Run 13 jts. 9 5/8" 36# ST&C J-55 csg. set @ 412', FC @ 379'  
Surface Casing - Hole Size: 12-1/4"

Run 145 jts 7", 23#, J-55, LT&C csg. Landed @ 6162', FC @ 6116'  
Intermediate Casing - Hole Size: 8-3/4"

Run 120 jts, 4-1/2" CSG Liner, 11.6#, P-110, LT&C. 8RD CSG set @ 10882', LC @ 10801',  
RSI tool @ 10800', marker jts @ 7558', 9228', TOL @ 5999'  
Final Casing - Hole Size: 6-1/8"

Land tbg @ 6272'. As Follows: Hanger, KB 14.50' 35jts. of 2.7/8" 6.5# J-55tbg, GLV #9 @ 1,140' 24jts of 2.7/8 6.5# J-55tbg GLV #8 @ 1,946' 17jts of 2.7/8 6.5# J-55tbg, GLV #7 @ 2,505' 16jts 2.7/8 6.5# J-55tbg, GLV #6 @ 3,030' 16jts of 2.7/8 6.5# J-55tbg, GLV #5 @ 3,556' 15jts of 2.7/8 6.5# J-55tbg, GLV #4 @ 4,049' 16jts of 2.7/8 6.5# J-55, GLV #3 @ 4,574' 16jts of 2.7/8 6.5# J-55tbg, GLV #2 @ 5,099' 10jts of 2.7/8 6.5# J-55tbg, 5,426' pro-nipple 2.31, 2jts of 2.7/8 6.5# J-55tbg, GLV #1 @ 5,919' 1jt of 2.7/8 6.5# J-55tbg, @ 5,951' 4' Pup jt, 7"X 2.7/8 T-2 ON & Off Tool, w/ 2.25 F-Nipple @ 5,957, 7"X 2.7/8 Arrowset 1- X 10K packer, @ 5,965' X over 9jts 2.375tbg, @ 6,239' 2.375 X 1.87 " X Nipple' @ 6,241', 1jt of 2.375 4.7# J-55tbg, @ 6,272 ' 2.375 1/2 Mull shoe @ 6,272' EOT, Packer was set at 10 K tension, Total 181jts 2.7/8 6.5# J-55 8rd tbg, Total 10jts 2.375 4.7# J-55 EUE 8rd, 64% Degrees.

TD: 10898' MD  
TVD: 5432'  
PBSD: 10801' MD

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
12-1/4"	9-5/8"	245 sx	222 cu.ft.	Surface
8-3/4"	7"	1066 sx	1543 cu.ft	Surface
6-1/8"	4-1/2"	380 sx	523 cu. ft.	TOL 5999'

MJ 2/19/15

Ar

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# Chaco 2308 11A #408H

## Basin Mancos

(page 2 – lateral with completion)

Gallup 1<sup>st</sup>:  
10612'-10737' +  
RSI TOOL @  
10803' with  
219,792# 20/40  
PSA Sand

Gallup 4<sup>th</sup>:  
9664'-9895'-  
with 24, 0.40"  
holes. Frac  
Gallup 4<sup>th</sup> stage  
with 215,443#,  
20/40 PSA  
Sand

Gallup 3<sup>rd</sup>:  
9995'-10226'- with  
24, 0.40" holes.  
Frac Gallup 3<sup>rd</sup>  
stage with  
214,007#, 20/40  
PSA Sand

Gallup 2<sup>nd</sup>:  
10326'-10512'-  
with 24 total,  
0.40" holes.  
Frac Gallup 2<sup>nd</sup>  
stage with  
214,251#, 20/40  
PSA Sand

Gallup 5<sup>th</sup>:  
9378'-9564'-with  
24, 0.40" holes.  
Frac Gallup 5<sup>th</sup>  
stage with  
215,700#, 20/40  
PSA Sand

Gallup 6<sup>th</sup>:  
9092'-9273'-  
with 24, 0.40"  
holes. Frac  
Gallup 6<sup>th</sup> stage  
with 214,000# ,  
20/40 PSA  
Sand

Gallup 7<sup>th</sup>:  
8806'-8992'-  
with 24, 0.40"  
holes. Frac  
Gallup 7<sup>th</sup>  
stage with  
215,760# ,  
20/40 PSA  
Sand

Gallup 8<sup>th</sup>:  
8520'-8703'- with 24,  
0.40" holes. Frac Gallup  
8<sup>th</sup> stage with 212,060#,  
20/40 PSA Sand

Gallup 9<sup>th</sup>:  
8234'-8420'- with  
24, 0.40" holes.  
Frac Gallup 9<sup>th</sup>  
stage with  
216,240#, 20/40  
PSA Sand

Gallup 10<sup>th</sup>:  
7948'-8134'-  
with 24, 0.40"  
holes. Frac  
Gallup 10<sup>th</sup>  
stage with  
214,498#,  
20/40 PSA  
Sand

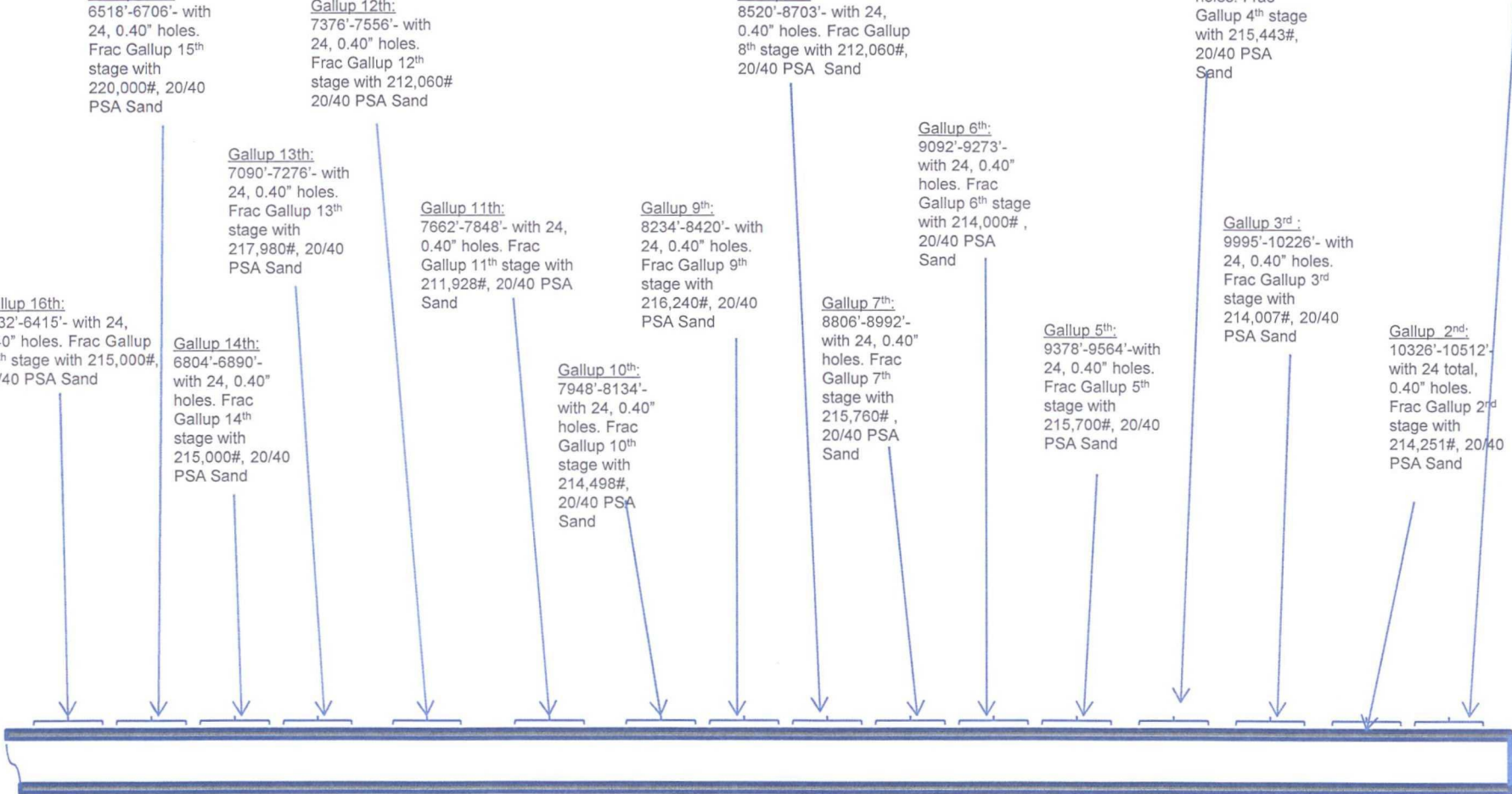
Gallup 11<sup>th</sup>:  
7662'-7848'- with 24,  
0.40" holes. Frac  
Gallup 11<sup>th</sup> stage with  
211,928#, 20/40 PSA  
Sand

Gallup 13<sup>th</sup>:  
7090'-7276'- with  
24, 0.40" holes.  
Frac Gallup 13<sup>th</sup>  
stage with  
217,980#, 20/40  
PSA Sand

Gallup 14<sup>th</sup>:  
6804'-6890'-  
with 24, 0.40"  
holes. Frac  
Gallup 14<sup>th</sup>  
stage with  
215,000#, 20/40  
PSA Sand

Gallup 15<sup>th</sup>:  
6518'-6706'- with  
24, 0.40" holes.  
Frac Gallup 15<sup>th</sup>  
stage with  
220,000#, 20/40  
PSA Sand

Gallup 16<sup>th</sup>:  
6232'-6415'- with 24,  
0.40" holes. Frac Gallup  
16<sup>th</sup> stage with 215,000#,  
20/40 PSA Sand



See page 1 for upper portion of hole