N Escavada Unit #315H API #:30-043-21888

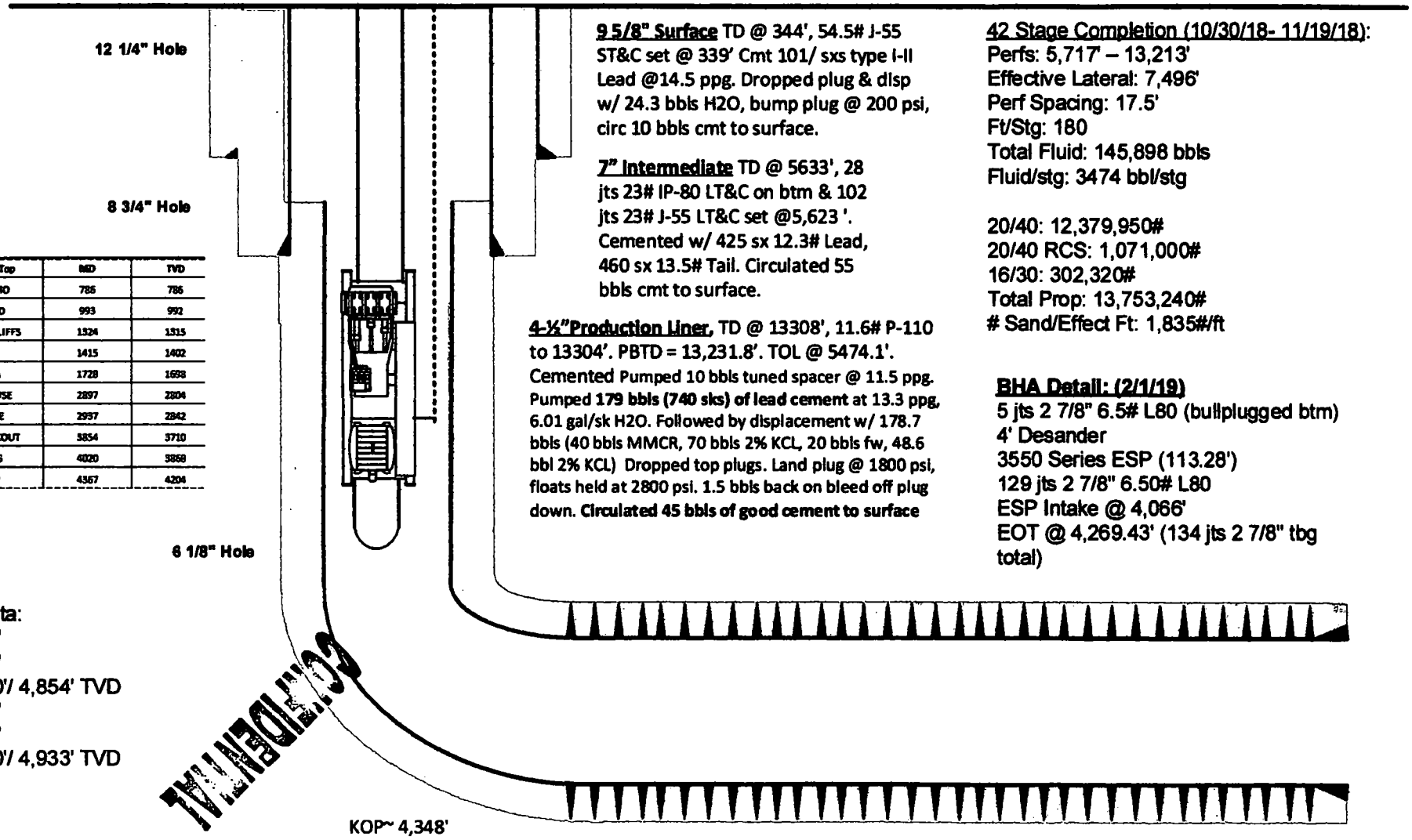
SHL:	1583' FSL	250' FWL	Sec: 10	Twnshp: 22N	Rge: 7W
BHL:	2301' FSL	562' FWL	Sec: 4	Twnshp: 22N	Rge: 7W

Spud Date: 11/1/2017
Completion Date:2/1/19

Lat: 36.15177 °N Long: 107.570449 °W
Escavada Mancos W
County: Sandoval NM
Elevation: 6860.01'

Created By: mwarp 10/17/18
Modified by: lgranillo 2/6/19

Current Wellbore



Formation Top	MD	TVD
OJO ALAMO	786	786
KIRTLAND	993	992
PICTURED CLIFFS	1324	1315
LEWIS	1415	1402
CHACRA	1728	1698
CLIFF HOUSE	2897	2804
MENEFEE	2957	2842
POINT LOOKOUT	3854	3710
MANCOS	4020	3858
GALLUP	4367	4204

9 5/8" Surface TD @ 344', 54.5# J-55 ST&C set @ 339' Cmt 101/ sxs type I-II Lead @14.5 ppg. Dropped plug & disp w/ 24.3 bbls H2O, bump plug @ 200 psi, circ 10 bbls cmt to surface.

7" Intermediate TD @ 5633', 28 jts 23# IP-80 LT&C on btm & 102 jts 23# J-55 LT&C set @5,623 '. Cemented w/ 425 sx 12.3# Lead, 460 sx 13.5# Tail. Circulated 55 bbls cmt to surface.

4-½"Production Liner, TD @ 13308', 11.6# P-110 to 13304'. PBTD = 13,231.8'. TOL @ 5474.1'. Cemented Pumped 10 bbls tuned spacer @ 11.5 ppg. Pumped **179 bbls (740 sks) of lead cement** at 13.3 ppg, 6.01 gal/sk H2O. Followed by displacement w/ 178.7 bbls (40 bbls MMCR, 70 bbls 2% KCL, 20 bbls fw, 48.6 bbl 2% KCL) Dropped top plugs. Land plug @ 1800 psi, floats held at 2800 psi. 1.5 bbls back on bleed off plug down. **Circulated 45 bbls of good cement to surface**

42 Stage Completion (10/30/18- 11/19/18):
Perfs: 5,717' – 13,213'
Effective Lateral: 7,496'
Perf Spacing: 17.5'
Ft/Stg: 180
Total Fluid: 145,898 bbls
Fluid/stg: 3474 bbl/stg

20/40: 12,379,950#
20/40 RCS: 1,071,000#
16/30: 302,320#
Total Prop: 13,753,240#
Sand/Effect Ft: 1,835#/ft

BHA Detail: (2/1/19)
5 jts 2 7/8" 6.5# L80 (bullplugged btm)
4' Desander
3550 Series ESP (113.28')
129 jts 2 7/8" 6.50# L80
ESP Intake @ 4,066'
EOT @ 4,269.43' (134 jts 2 7/8" tbg total)

Directional Data:
40° @ ~4,897'
50° @ ~5,023'
60° @ ~ 5,150'/ 4,854' TVD
70° @ ~5,245'
80° @~ 5,371'
90° @ ~ 5,530'/ 4,933' TVD

Perf'd @ 5717'-13213', 0.35" & .42" diameter w/ 1511 total holes.
Frac'd @ 5717'-13213' w/ 42 stages of 20/40 & 16/30 sand

PBTD: 13,258'
TD: 13,308 MD
TVD: 4,999.7'