

SHL: 660' FSL & 540' FEL
SE/4 SE/4 Section 33 (P), T31N, R5W

BHL: 714' FSL & 540' FEL
SE/4 SE/4 Section 33 (P), T31N, R5W

Rio Arriba
Elevation: 6504
API: 30-039-29982

Rosa Unit #77C Mesaverde/Dakota

Spud: 10/19/11

Completed: 9/24/15

Casing Patches and Tieback String to be left in place

Tops	MD	TVD
OJO ALAMO	2608	2607
KIRTLAND	2746	2745
PICTURE CLIFFS	3530	3529
LEWIS	3616	3615
CLIFF HOUSE	5484	5484
MENEFEE	5520	5519
PT LOOKOUT	5769	5768
MANCOS	6022	6022
GREENHORN LS	7802	7801
DAKOTA	7977	7975

5222'-5244'
4-1/2" (3.35" ID) Owens X-Span Patch #3

Squeeze #3
5230' - 5231'
2 shots, .35" diameter
TOC 5070'

5394'-5406'
4-1/2" (3.35" ID) Owens X-Span Patch #2

Squeeze #2
5400' - 5401'
2 shots, .35" diameter
TOC 5240'

5504'-5516'
4-1/2" (3.35" ID) Owens X-Span Patch #1

Squeeze #1
5510' - 5511'
2 shots, .35" diameter
TOC 5430'

TD: 8225' MD
PBTD: 8217' MD

Ran 13 jts 9 -5/8" , 36#/ft, K-55, LT&C landed @ 304', float collar @ 279'
Surface Casing -Hole Size: 12-1/4"
Cement to surface

Ran 98 jts 7", 23#/ft , J-55, LT&C csg landed @ 3816', FC @ 3771'
Intermediate Casing - Hole Size: 8-3/4"
Good Pressure Test
TOC @ ~1020' - No Remediation Required per NMOCD & BLM

4-1/2", 11.6#/ft, N-80 Tieback landed @ 3644' - No Cement

TOL @ 3644'

Ran 125 jts 4-1/2", 11.6#/ft, N-80, LT&C csg landed @ 8220', LC @ 8217,
Marker Joints @ 5165', 5762' & 6651'
TOL @ 3644'
Final Casing - Hole Size: 6-1/4"
Good Pressure Test

Land tubing @ 8030' w/ 2.375" J55 10Round, 14.5' KB as follows, .4" MS, 1 Jt of 2.375" 8
Round J55 tbg, 3/4" Seat Nipple, .58" X-Over, 183 Jt of 2.375" J55 tbg

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
12-1/4"	9-5/8"	104 sx	168.68 cu.ft.	Surface
8-3/4"	7"	510 sx	1092.77 cu. ft.	TOC 1020'
6-1/8"	4-1/2"	1243 sx	1553.39 cu. ft.	TOC 5070' includes SQZ

OIL CONS. DIV DIST. 3

OCT 05 2015

AV

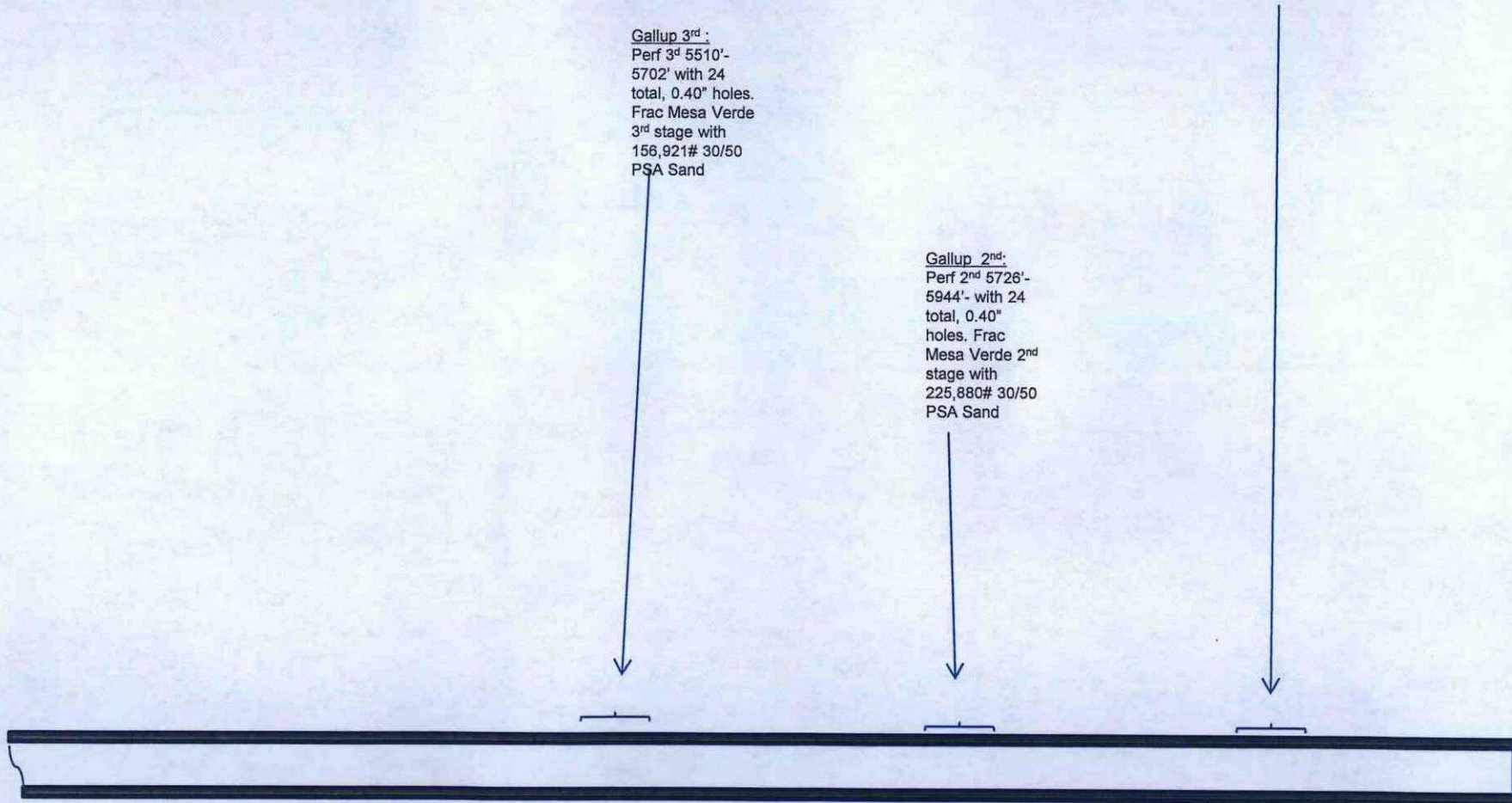
2

Rosa Unit #77C
Mesaverde/Dakota
(page 2 – lateral with completion)

Gallup 1st:
Frac Dakota 1st
stage 7990'-
8090'- with
67,790# 30/50
PSA Sand

Gallup 3rd:
Perf 3^d 5510'-
5702' with 24
total, 0.40" holes.
Frac Mesa Verde
3rd stage with
156,921# 30/50
PSA Sand

Gallup 2nd:
Perf 2nd 5726'-
5944'- with 24
total, 0.40"
holes, Frac
Mesa Verde 2nd
stage with
225,880# 30/50
PSA Sand



See page 1 for upper portion of hole