ConocoPhillips
Well Name: TURNER #1

API / UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3004509226	028-030N-009W-A BLANCO MESAVERDE (PRORAT #0...			NEW MEXICO	

Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
5,865.00	5,879.00	14.00		

Original Hole, 6/20/2017 2:08:17 PM

MD (ftKB)	Formation Tops	Vertical schematic (actual)	TVD (ftKB)

MD (ftKB) values (left axis): 14.1, 20.0, 243.1, 244.1, 799.9, 870.1, 896.0, 902.9, 903.9, 1,296.9, 1,337.9, 1,346.1, 1,477.0, 1,885.5, 2,013.1, 2,573.2, 2,580.1, 2,609.9, 3,064.0, 3,165.0, 3,285.1, 3,289.0, 3,559.1, 4,196.9, 4,221.1, 4,388.1, 4,416.0, 4,610.9, 4,615.2, 4,616.1, 4,737.9, 4,738.8, 4,810.7, 4,812.7, 4,826.1, 4,830.1, 4,843.8, 4,844.5, 4,845.5, 4,889.1, 4,913.1, 4,943.9, 4,944.9, 4,960.0

Formation Tops: NACIMIENTO, OJO ALAMO, KIRTLAND, FRUITLAND, PICTURED..., HUERFANIT..., CHACRA, CLIFF HOUSE, MENEFEE, POINT LOO...

OIL CONS. DIV DIST. 3
JUN 27 2017

Annotations (right side):

1; Surface; 10 3/4 in; 0.000 in; 14.0 ftKB; The weight, grade, and number of joints are unknown due to lack of casing tally. The joints were calculated assuming 31.5' per joint.; 244.0 ftKB

Surface Casing Cement; 14.0-244.0; 10/26/1950; Cemented w/ 200 sx cement. Circulated cement to surface.

Cement Squeeze; 14.0-800.0; 12/21/1960; Squeeze perfs in 5 1/2" casing @ 800' w/ 100 sx regular cement. Circulated cement to surface.

Squeeze Holes; 800.0; 12/21/1960

Cement Squeeze; 896.0-1,338.0; 12/10/1960; Squeeze hole in 7" casing f/ 1308'-1338' w/ 100 sx regular cement. TOC @ 896' (Calculated w/ 75% eff). Re-squeezed on 12/17/1960 @ 1346'.

Cement Squeeze; 904.0-1,346.0; 12/17/1960; Squeeze holes in 7" casing f/ 1316'-1346' w/ 100 sx regular cement. TOC @ 904' (Calculated 75% eff).

Cement Squeeze; 1,885.5-2,610.0; 12/9/1960; Squeeze perfs in 7" casing @ 2610' w/ 164 sxs regular cement, circulated across PC. TOC @ 1885.5' (Calculated 75% eff).

Pictured Cliffs; 2,580.0-2,610.0; 12/23/1960

Squeeze Holes; 2,610.0; 12/9/1960

Cement Squeeze; 3,064.0-3,285.0; 12/19/1960; Squeeze perf holes in 7" casing @ 3285' w/ 50 sx regular cement. TOC @ 3064' (Calculated 75% eff).

Squeeze Holes; 3,285.0; 12/16/1960

PERF - CLIFF HOUSE MASSIVE; 4,221.0-4,416.0; 12/23/1960

Production Casing Cement; 870.0-4,611.0; 12/20/1960; Cemented w/ 250 sx regular cement, did not circ to surface. TOC @ 870' per temperature survey (12/20/1960).

2; Tie Back Production; 5 1/2 in; 4.950 in; 20.0 ftKB; The 5 1/2" casing was tied back to surface due to holes that were found in the 7" casing. Attempts to squeeze holes in 7" casing were unsuccessful. The 5 1/2" casing was cut back 6' below GL; 4,615.0 ftKB

Intermediate Casing Cement; 3,165.0-4,739.0; 10/26/1950; Cemented w/ 200 sx cement. TOC @ 3165' (Calculated 75% eff).

3; Intermediate; 7 in; 0.000 in; 14.0 ftKB; The weight, grade, and number of joints are unknown due to lack of casing tally. The joints were calculated assuming 31.5' per joint.; 4,739.0 ftKB

PERF - POINT LOOKOUT; 4,826.0-4,889.0; 12/23/1960

4; Liner; 5 1/2 in; 4.950 in; 4,611.0 ftKB; Note: several KB values were listed for same workover in 1960 (included production liner & casing, perforations, and tubing) and 14' KB was found to be most correct.; 4,945.0 ftKB

Liner Cement; 4,611.0-4,960.0; 12/14/1960; Set liner w/ 100 sx 50/50 poz cement. Squeeze liner top w/ 100 sx regular cement, went on vacuum. Re-squeezed liner top w/ 100 sx regular cement. TOC @ liner top.

Auto cement plug; 4,913.0-4,960.0; 12/14/1960; Automatically created cement plug from the casing cement because it had a tagged depth.

Annotations (left side):

Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 14.0 ftKB; 4,810.6 ftKB

Hydraulic Fracture; 12/24/1960; Frac'd w/ 36,500 gal water; 40,000# sand.

Hydraulic Fracture; 4/19/2000; PC re-stimulation w/ 440 bbls 30-35# linear gel; 175,000# 20/40 AZ sand.

Hydraulic Fracture; 12/23/1960; Frac'd w/ 39,900 gal water; 40,000# sand.

Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 4,810.6 ftKB; 4,812.7 ftKB

Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 4,812.7 ftKB; 4,843.8 ftKB

Seating Nipple; 2 3/8 in; 4.70 lb/ft; J-55; 4,843.8 ftKB; 4,844.7 ftKB

Expendible Check; 2 3/8 in; 4,844.7 ftKB; 4,845.5 ftKB

Hydraulic Fracture; 12/23/1960; Frac'd w/ 61,400 gal water; 60,000# sand.

PBTD; 4,913.0