

Pertinent Data Sheet

ConocoPhillips

Well Name: HOWELL M #1

API / UWI 3004509101	Surface Legal Location NMPM,030-030N-008W	Field Name BLANCO MESAVERDE (PRORATED GAS)	License No.	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,753.00	Original KB/RT Elevation (ft) 5,763.00	KB-Ground Distance (ft) 10.00	KB-Casing Flange Distance (ft) 5,763.00	KB-Tubing Hanger Distance (ft) 5,763.00	

Well Attributes

Orig Spud Date 5/5/1953	Latitude (DMS) 36° 46' 39.36" N	Longitude (DMS) 107° 43' 0.624" W
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PBTDs

Depth (ftKB)	Comment
4,803.0	

Formations

Formation Name	Formation Top MD (ftKB)
KIRTLAND	1,464.0
FRUITLAND	2,075.0
PICTURED CLIFFS	2,450.0
CLIFF HOUSE	4,038.0
MENEFEE	4,225.0
POINT LOOKOUT	4,646.0
MANCOS	4,726.0

Casing Strings

Casing Description		Run Date	Set Depth (ftKB)	Comment		
Surface		5/5/1953	173.0			
Item Description	OD Nominal (in)	Nominal ID (in)	Wt (lbs/ft)	Grade	Jts	Section Length (ft)
Casing Joints	9 5/8	9.001	25.40	SPIRAL	4	162.00
Guide Shoe	9 5/8	9.001	25.40	SPIRAL	1	1.00
Casing Description		Run Date	Set Depth (ftKB)	Comment		
Intermediate		5/12/1953	4,022.0			
Item Description	OD Nominal (in)	Nominal ID (in)	Wt (lbs/ft)	Grade	Jts	Section Length (ft)
Casing Joints	7	6.456	20.00	J-55	127	4,011.00
Guide Shoe	7	6.456	20.00	J-55	1	1.00
Casing Description		Run Date	Set Depth (ftKB)	Comment		
Production		8/28/1967	4,819.0			
Item Description	OD Nominal (in)	Nominal ID (in)	Wt (lbs/ft)	Grade	Jts	Section Length (ft)
Casing Joints	4 1/2	4.052	10.50	J-55	152	4,793.34
Float Collar	4 1/2				1	1.45
Casing Joints	4 1/2	4.052	10.50	J-55	1	13.47
Guide Shoe	4 1/2	4.052	10.50	J-55	1	0.74

Cement

Description	Start Date	End Date	Comment
Surface Casing Cement	5/5/1953		CMT WITH 125 SKS QUICKSET CEMENT, CIRC TO SURFACE
Intermediate Casing Cement	5/13/1953		CMT WITH 300 SKS REG CEMENT & SKS FLOCELE. TOC @2320' BY TEMP SURVEY. CBL RAN 10/2/2002, TOC @500'.
Cement Squeeze	8/24/1967		SQUEEZED OPEN HOLE W/200 SKS CLASS A CEMENT
Cement Squeeze	8/24/1967		SQUEEZE THROUGH PERFS W/125 SKS CLASS A CMT, GOOD CIRC
Production Casing Cement	8/28/1967		CMT WITH 115 SKS CLASS A CEMENT. TOC @3475' BY TEMP SURVEY
Cement Plug	8/28/1967		
Cement Squeeze	10/7/2002		PUMPED 240 SKS CLASS B NEAT CEMENT, CIRC 9 BBLs CMT TO SURFACE.
Cement Plug	9/8/2011	9/8/2011	PUMPED 5 BBL FRESH DOWN 2 3/8" TBG, PUMP 3 BBL TYPE 3, 14.8# W/ NO ADDITIVES, DISPLACE WITH 9.5 BBL FRESH, SPOT PLUG FROM 2805' TO 2700', 50' INSIDE 4 1/2" AND 50' INSIDE 7" CSG, PULLED 3 STD TBG, REVERSED OUT ANY EXCESS.

Tubing - Production set at 4,589.7ftKB on 10/3/2011 08:00

Tubing Description	Run Date	Set Depth (ftKB)	Comment				
Tubing - Production	10/3/2011	4,589.7					
Item Description	OD Nominal (in)	Nominal ID (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)	Top (ftKB)
Tubing	2 3/8	1.995	4.70	J-55	148	4,545.20	10.0
Tubing Pup Joint	2 3/8	1.995	4.70	J-55	1	2.00	4,555.2
TUBING	2 3/8	1.995	4.70	J-55	1	30.65	4,557.2
Profile Nipple	2 3/8	1.780	4.70	J-55	1	1.10	4,587.8
EXPENDABLE CHECK	2 3/8	1.780	4.70	J-55	1	0.75	4,588.9

Other In Hole

Description	Run Date	Top (ftKB)	Comment
Cement Retainer	8/24/1967	3,426.0	SQUEEZED OPEN HOLE W/200 SKS CMT
Cement Retainer	8/24/1967	1,407.0	SQUEEZED THROUGH PERFS W/125 SKS
Bridge Plug - Temporary	10/3/2002	4,100.0	MILLED CIBP

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