

Well Name: MCGRATH #3

Current Schematic

OIL CONS. DIV DIST. 3

MAR 18 2014

API7 UWI 3004508709	Surface Legal Location 1630' F&L, 1630' F&L G3-C34-V&12W	Field Name SSN (FTLD COAL) #3045	License No.	State/Province NEW MEXICO	Well Configuration Type
Ground Elevation (ft) 5,845.00	Original K5RT Elevation (ft) 5,857.00	K5-Ground Distance (ft) 12.00	K5-Casing Flange Distance (ft) 5,857.00	K5-Tubing Hanger Distance (ft) 5,857.00	

Original Hole, 2/19/2014 10:34:49 AM

Formation Tops	MD (ftKB)	Vertical schematic (actual)	
	12.1	Daily report on 4/3/45 indicate "Pulling 13-3/8 casing"	Surface Casing Cement; 12.0-3/12/1945; Cemented with 2 sx aquagel. TOC unknown.
	100.1	SQUEEZE PERFS: 100.0-2/28/2013	Cement Plug #5; 12.0-100.0; 3/1/2013; PLUG #5A, SURF PLUG, 100' TO SRRF, W/200 SX CLASS B CMT @ 15.6 PPG. SQUEEZED 196 SX IN ANNULUS UNTIL GOOD CMT CIRC TO SURF & LEFT 4 SX INSIDE CSG.
OJO ALA...	461.0		Auto cement plug; 12.0-100.0; 3/1/2013; Automatically created cement plug from the casing cement because it had a tagged depth.
	574.1		Cement Plug #4; 461.0-729.0; 2/28/2013; PLUG #4, OUTSIDE CSG, 729' TO 461' W/62 SX CLASS B CMT @ 15.5 PPG.
KIRTLAND	674.9		Cement Plug #4; 461.0-729.0; 2/28/2013; PLUG #4, INSIDE CSG, 729' TO 461' W/12 SX CLASS B CMT @ 15.5 PPG- 2 SX BELOW CMT RET & 10 SX ON TOP.
	679.1		Cement Plug #3; 1,162.0-1,345.0; 2/28/2013; PLUG #3, 1345' TO 1162', W/8 SX CLASS B CMT @ 15.5 PPG.
	690.0		Cement Plug #2A; 1,330.0-1,475.0; 2/27/2013; PLUG #2A, OUTSIDE CSG, 1475' TO 1414' W/39 SX CLASS B CMT @ 15.6 PPG. WOC. TOC ESTIMATED DUE TO PERF @ 1343' & COULD NOT ESTAB RATE.
	691.5	Cement Retainer: 690.0-692.0	Cement Plug #2; 1,414.0-1,475.0; 2/27/2013; PLUG #2, OUTSIDE CSG, 1475' TO 1414' W/39 SX CLASS B CMT @ 15.5 PPG. WOC. PLUG DID NOT STAY IN PLACE. RE-PUMPED PLUG.
	729.0	SQUEEZE PERFS: 729.0-2/28/2013	Intermediate Casing Cement; 12.0-1,460.0; 4/1/1945; Cemented with 4 sx aquagel. TOC unknown.
	1,162.1		Cement Plug #2 & #2A; 1,345.0-1,475.0; 2/27/2013; PLUG #2A, 1475' TO 1392' W/5 SX CLASS B CMT @ 15.6 PPG- 2 SX BELOW CMT RET & 3 SX ON TOP. WOC.
FRUITLA...	1,330.1		Cement Plug #2 & #2A; 1,414.0-1,475.0; 2/27/2013; PLUG #2, 1475' TO 1414' W/4 SX CLASS B CMT @ 15.5 PPG- 2 SX BELOW CMT RET & 2 SX ON TOP. WOC. CMT DID NOT STAY IN PLACE. RE-PUMPED PLUG.
	1,332.0	SQUEEZE PERFS: 1,343.0-2/28/2013	Cement Plug #1; 1,654.0-1,837.0; 2/26/2013; PLUG #1, 1837' TO 1654', W/8 SX CLASS B CMT @ 15.6 PPG.
	1,345.1		Hydraulic Fracture; 7/19/1995; Frac'd w/ 70 Q N2, 51000# Brady sd, 9620 gal 15# gel, 311, 750 SCF N2
	1,414.0		Production Casing Cement; 1,500.0-1,928.0; 4/8/1945; Cemented w/ 58 sx cement. TOC @ 1649' per 75% calc eff. TOC ESTIMATED DUE TO PERF @ 1510' W/NO RATE & PERF @ 1475' W/RATE
	1,459.0	2; Intermediate1; 8 5/8 in; 0.000 in; 12.0 ftKB; 1,460.0 ftKB	Hydraulic Fracture; 12/11/1964; Frac'd w/ 15,750 gals slickwater, 10,000# 20/40 & 10,000# 10/20 sand.
	1,460.0	Cement Retainer: 1,460.0-1,462.0	Production Casing Cement; 12.0-2,011.0; 12/5/1964; Cemented w/ 110 sx Class C cement.
	1,461.5		Cement Plug; 2,011.0-2,040.0; 12/5/1964
	1,475.1	SQUEEZE PERFS: 1,475.0-2/27/2013	
	1,500.0	SQUEEZE PERFS: 1,510.0-2/27/2013	
	1,653.9		
	1,836.5	Bridge Plug - Permanent; 1,837.0-1,839.0	
	1,839.5		
	1,872.0	PERF - FRUITLAND COAL; 1,872.0-1,912.0; 7/13/1995	
	1,912.1		
	1,916.0	PBTD: 1,916.0; CIBP	
	1,917.0	Bridge Plug - Temporary; 1,916.0-1,917.0	
PICTUR...	1,918.0		
	1,921.9		
	1,926.5	3; Production1; 5 1/2 in; 0.000 in; 12.0 ftKB; 1,928.0 ftKB	
	1,928.1	PERF - PICTURED CLIFFS; 1,922.0-1,937.0; 12/11/1964	
	1,937.0		
	2,009.5		
	2,011.2	4; Production2; 3 1/2 in; 3.068 in; 12.0 ftKB; 2,011.0 ftKB	
	2,040.0		