

District SOUTH	Field Name BASIN DAKOTA (PRORATED GAS)	API / UWI 3004520363	County SAN JUAN	State/Province NEW MEXICO	
Original Spud Date 11/24/1968	Surface Legal Location NMPM.030-027N-009W	East/West Distance (ft) 1,772 00	East/West Reference E	North/South Distance (ft) 1,180 00	North/South Reference S

Well Config: - Original Hole, 7/29/2011 7:37:21 AM

ftKB (MD)	Schematic - Actual	Frm Final
12	Tubing, 2 3/8in, 4.70lbs/ft, L-80, 12 ftKB, 42 ftKB	
42	Spacer Pup, 2 3/8in, 4 70lbs/ft, J-55, 42 ftKB, 53 ftKB	
53	Tubing, 2 3/8in, 4 70lbs/ft, L-80, 53 ftKB, 2,102 ftKB	
201	Hydraulic Fracture, 5/24/2011, -- FRAC FC ZONE -- FORMATION BROKE DOWN 728 PSI @ 5.2 BPM. BULLHEAD 12 BBLS 10% FORMIC ACID IN FRONT OF FRAC PUMPED 4,000 GALS OF X-LINK PRE-PAD PUMPED 927 GALS 25# LINEAR 75% N2 FOAM W/ 151,506 # 20/40 ARIZONA SAND	
202		Surface Casing Cement, 12-202, 11/25/1968, CEMENT W/190 SKS CLASS A, CIRC 3 BBLS CEMENT TO SURFACE
214		Surface, 8 5/8in, 8 097in, 12 ftKB, 202 ftKB.
2,027		Perforated, 2,027-2,030, 5/24/2011
2,030		Perforated, 2,057-2,074, 5/24/2011
2,057		Perforated, 2,080-2,098, 5/24/2011
2,074		Perforated, 2,104-2,142, 5/24/2011
2,080	SCF N2 1,556,400	Perforated, 2,202-2,220, 5/24/2011
2,098	MAX PSI 2551	Casing cement, 12-2,370, 12/13/1968, 3RD STAGE CEMENT W/170 SKS CLASS C NEAT
2,102	MIN PSI 1839	Cement Plug Mesa Verde, 3,624-3,767, 5/13/2011, MIRU HALLIBURTON CEMENT CREW REVIEW JSA'S, JOB CALCULATIONS, & PROCESSES
2,104	AVG PSI 2150	MIX & PUMP 12 SX (2 5 BBL) HALLIBURTON G NEAT @ 15.6 #/GAL, W/ YIELD OF 1.18 CUBIC FT/SK
2,135	MAX RATE 54.7 BPM	DISPLACE W/ 13.9 BBL WATER TO BALANCE CMT PLUG AND PULL OUT 6 JOINTS SLOW LEAVING PLUG FROM 3816' TO 3767' (150' - 50% EXCESS)
2,136	MIN RATE 41.9 BPM	REVERSE OUT & WASH UP PUMP TRUCK RDMO HALLIBURTON
2,136	AVG RATE 50.3 BPM	TAGGED 5/16/2011 - 3635'
2,136	ISIP 1657	Cement squeeze, 3,276-4,248, 10/1/1985, SQUEEZE LEAK W/75 SKS W/2% CACL2, TESTED OK, TAG CMT @ 3276
2,137	Marker Pup, 2 3/8in, 4 70lbs/ft, J-55, 2,102 ftKB, 2,104 ftKB	Cement Squeeze, 3,904-4,248, 10/1/1985, SQUEEZE LEAK W/50 SKS CLASS B, DID NOT TEST TAG CMT @ 3904
2,142	Tubing, 2 3/8in, 4.70lbs/ft, L-80, 2,104 ftKB, 2,135 ftKB	Cement squeeze, 3,909-4,248, 10/1/1985, SQUEEZE LEAK W/50 SKS CLASS B, TAG @ 3909'
2,202	Profile Nipple, 2 3/8in, 4 70lbs/ft, L-80, 2,135 ftKB, 2,136 ftKB	BALANCED PLUG OLD CIRCA 1985 SQZ, 3,900-4,265, 5/13/2011, MIRU HALLIBURTON CEMENT CREW REVIEW JSA'S, JOB CALCULATIONS, & PROCESSES
2,204	Mule Shoe Expendable Check, 2 3/8in, 4 70lbs/ft, L-80, 2,136 ftKB, 2,137 ftKB	MIX & PUMP 27.6 SX (5.8 BBL) HALLIBURTON G NEAT @ 15.6 #/GAL, W/ YIELD OF 1.18 CUBIC FT/SK
2,220		DISPLACE W/ 14.94 BBL WATER TO BALANCE CMT PLUG AND PULL OUT 12 JOINTS SLOW LEAVING PLUG FROM 3900' TO 4265' (365')
2,370	Hydraulic Fracture, 5/24/2011, FRAC PC ZONE. FORMATION BROKE DOWN 2,061 PSI @ 5.3 BPM. BULLHEAD 12 BBLS 10% FORMIC ACID IN FRONT OF FRAC. PUMPED 9,656 GALS 20# LINEAR 70% N2 FOAM W/ 46,813# 20/40 ARIZONA SAND.	REVERSE OUT & PULL UP TO NEXT PLUG
2,373		Casing cement, 2,370-4,772, 12/13/1968, 2ND STAGE CEMENT W/185 SKS CLASS C NEAT
3,624		Cement Plug, 4,725-4,875, 5/13/2011, MIRU HALLIBURTON CEMENT CREW REVIEW JSA'S, JOB CALCULATIONS, & PROCESSES
3,730		MIX & PUMP 12 SX (2 5 BBL) HALLIBURTON G NEAT @ 15.6 #/GAL, W/ YIELD OF 1.18 CUBIC FT/SK
4,518		DISPLACE W/ 18.22 BBL WATER TO BALANCE CMT PLUG AND PULL OUT 6 JOINTS SLOW LEAVING PLUG FROM 4725' TO 4875' (150' - 50% EXCESS)
4,772		REVERSE OUT & PULL UP TO NEXT PLUG
4,775	ENZYME G II- 3.9 GALS, GW-3LDF- 23.1 GALS, INFLO 250W- 29.9 GALS, FAW-4 23.3 GALS	Cement on top of Retainer, 5,560-5,624, 5/13/2011, STUNG OUT W/ 1 BBL IN TUBING
5,624		Cement Retainer, 5,624-5,626, SET HALLIBURTON 4 1/2 EZSV @ 5624' "NOQC"
5,626		Perforated, 5,730, 5/12/2011
5,674	SCF N2- 234,300	PXA GALLUP, 5,524-5,731, 5/13/2011, MIRU HALLIBURTON CEMENT CREW REVIEW JSA'S, JOB CALCULATIONS, & PROCESSES
5,730	MAX PSI 1656	MIX & PUMP 52 SX (11 BBL) HALLIBURTON G NEAT @ 15.6 #/GAL, W/ YIELD OF 1.18 CUBIC FT/SK
6,465	MIN PSI 1560	DISPLACE W/ 20.75 BBL WATER TO LEAVE 1 BBL ON TOP OF EZSV & STING OUT PULL TO 5560' & REVERSE OUT
6,467	AVG PSI 1624	Cement on top of Retainer, 6,400-6,465, 5/12/2011, STUNG OUT W/ 1 BBL IN TUBING
6,467	MAX RATE 61.4 BPM	Cement Retainer, 6,465-6,467, FOUND HALLIBURTON 4 1/2 EZSV @ 6465' & USED IT TO ABANDON DAKOTA
6,467	MIN RATE 55.8 BPM	
6,495	AVG RATE 57 BPM	
6,495	ISIP 788	
6,546	PBTD, 3,624, LOWER SECTIONS OF WELL WERE PXA PRIOR TO PC/FC PAY ADD IN 2011	Perforated, 6,578-6,803, 12/14/1968
6,578	TAGGED DURING CLEAN OUT AFTER FRAC BY KEY RIG #12 - 7/25/2011.	PXA Cement Squeeze, 6,575-6,804, 5/12/2011, MIRU HALLIBURTON CEMENT CREW REVIEW JSA'S, JOB CALCULATIONS, & PROCESSES
6,664		MIX & PUMP 42 SX HALLIBURTON G NEAT @ 15.6 #/GAL, W/ YIELD OF 1.18 CUBIC FT/SK
6,803		DISPLACE W/ 24 BBL WATER TO LEAVE 1 BBL ON TOP OF EZSV & STING OUT PULL TO 6400' & REVERSE OUT TOH
6,829	Hyd Frac-Gelledwater, 12/14/1968, FRAC W/61,640 GAL SLICKWATER AND 60,000# 40/60 SAND	**GRADUALLY DECREASED RATE TO 3/4 BPM AS PERFS FILLED W/ CEMENT AND MAINTAINED APPROX 1100 PSI BEFORE STINGING OUT
6,830		Production Casing Cement, 4,772-6,840, 12/13/1968, 1ST STAGE CEMENT W/250 SKS CLASS A
6,839		Cement Plug, 6,830-6,840, 12/14/1968, PBTD
6,840	TD, 6,840, 12/13/1968	Cement plug, 6,840, 12/14/1968
		Production, 4 1/2in, 4 000in, 12 ftKB, 6,840 ftKB

PICTURED CLIFFS, 2,204

MESAVERDE, 3,730