

API/UVI 3003922555	Surface Legal Location 021-024N-003W-O	Prod Name DK	License No.	State/Province NEW MEXICO	Well Configuration Type Vertical
Ground Elevation (ft) 7,064.00	Original K5/RT Elevation (ft) 7,077.00	K5-Ground Distance (ft) 13.00	K5-Casing Flange Distance (ft) 13.00	K5-Tubing Hanger Distance (ft) 13.00	

Formation Tops	MD (ftKB)	Vertical schematic (actual)	
	1.6		Polished Rod; 22.00 ft.
	13.1		Pony Rod; 12.00 ft.
	20.6		Cement; 13.0-300.0; 12/28/1980; Cemented with 375 sx Class B neat. Circulated to surface.
	33.4		Sucker Rod; 7,200.00 ft.
	255.9		Intermediate Casing Cement; 13.0-3,900.0; 1/2/1981; Cemented with 550 sx BJ Lite. and tailed with 50 sx Class B neat. Circulated to surface.
OJO ALA...	2,655.0	1; Surface; 13 3/8 in; 12,715 in; 13.0 ftKB; 300.0 ftKB	Production Casing Cement; 2,800.0-6,003.0; 1/14/1981; 2) 300 sx BJ Lite and 50 sx Class B neat. TOC at 2800' per TS dated 1/15/1981.
FRUITLA...	2,792.0		Hyd Frac-Slickwater; 12/17/2011: FRAC GALLUP FORMATION. BROKE DOWN 972 PSI @ 3 BPM. BULLHEAD 10 BBLs 15% HCL ACID IN FRONT OF FRAC. PERFORMED AND STEP UP STEP DOWN PUMP IN, PUMPED 10,734 GAL 25# LINEAR GELL PAD FOLLOWED BY 161,952 GAL SLICKWATER W/ 11,360# 100 MESH SAND AND 90,260# 40/70 MESH SAND. MAX PSI 3591, MIN PSI 1874, AVG PSI 2493, MAX RATE 70 BPM, MIN RATE 60 BPM, AVG RATE 63 BPM. ISIP 456.
PICTUR...	3,124.0	Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 13.0 ftKB; 6,335.6 ftKB	
LEWIS	3,257.5		
HUERFA...	3,482.0		
	3,655.0	2; Intermediate; 18 5/8 in; 8,097 in; 13.0 ftKB; 3,900.0 ftKB	
CHACRA	3,833.5		
MESA V...	4,784.5		
MENEFE...	4,757.5		
POINT L...	5,217.5		
MANCOS	5,482.9		
	6,003.0	DV Tool at 6,003'	
	6,003.5	Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 6,335.6 ftKB; 6,337.5 ftKB	GELLING AGENT 6.25 GAL/1000 70 GAL.
	6,335.6	Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 6,337.5 ftKB; 6,358.4 ftKB	GEL BREAKER 2 GAL/1000 75 GAL.
GALLUP	6,337.5	Anchor/catcher; 4 1/2 in; 6,368.4 ftKB; 6,371.5 ftKB	BUFFER 1.5 GAL/1000 4 GAL.
	6,358.4	PERF - GALLUP; 6,416.0-6,419.0; 12/17/2011	NON-EMULSIFIER 1 GAL/1000 208 GAL.
	6,371.5	Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 6,371.5 ftKB; 7,473.7 ftKB	SURFACTANT 1 GAL/1000 179 GAL.
	6,416.0		FICTION REDUCER .5 GAL/1000 80 GAL.
GREENH...	7,235.6		SCALE SORB 100#
	7,235.6		CORR SORB 125#
GRANER...	7,303.1		PARA-SORB 500#
DAKOTA	7,321.5	PERF - DAKOTA; 7,324.0-7,390.0; 2/7/1981	Pony Rod; 16.00 ft
	7,324.1		Sinker Bar; 200.00 ft
	7,390.1		SAND WATER FRAC; 2/8/1981; FRAC'D DK A WITH 50000 GAL GWX07 AND 100000# 20/40 SAND
	7,440.5		Shear Coupling; 0.50 ft
	7,451.4		Guided Pony Rod; 8.00 ft
	7,452.1	Profile Nipple; 2 3/8 in; 7,473.7 ftKB; 7,474.6 ftKB	Pony Rod; 2.00 ft
	7,452.1	Gas anchor; 2 3/8 in; 7,474.6 ftKB; 7,482.7 ftKB	Rod Insert Pump; 14.00 ft
	7,452.1	Tubing Pup Joint; 2 3/8 in; 4.70 lb/ft; J-55; 7,482.7 ftKB; 7,484.6 ftKB	
	7,473.5	Gas anchor; 2 3/8 in; 7,484.6 ftKB; 7,508.5 ftKB	
	7,474.4	PERF - DAKOTA; 7,441.0-7,560.0; 2/6/1981	Gas Anchor/Dip Tube; 10.00 ft
	7,476.0	Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 7,508.5 ftKB; 7,539.2 ftKB	
	7,482.6	Bull Plug; 2 3/8 in; 7,539.2 ftKB; 7,539.5 ftKB	
	7,484.6		SAND WATER FRAC; 2/7/1981; FRAC'D DK B & D WITH 50000 GAL GWX07 AND 100000# 20/40 SAND.
	7,485.5		Production Casing Cement; 6,003.0-7,598.0; 1/14/1981; Cemented in two stages with a DV Tool at 6003'. Stage 1) 150 sx BJ Lite and 200 sx Class B neat.
	7,508.5		Auto cement plug; 7,580.0-7,598.0; 1/14/1981
	7,515.0		Automatically created cement plug from the casing cement because it had a tagged depth
	7,515.4		Display Cement Fill; 7,598.0-7,600.0; 1/14/1981
	7,560.0		
	7,576.1	FILL; 7,576.0-7,580.0	
	7,580.1	PBTD; 7,580.0	
	7,587.1		
	7,593.1	3; Production; 4 1/2 in; 4,000 in; 13.0 ftKB; 7,598.0 ftKB	
	7,600.1		