



Pertinent Data Sheet

Well Name: PIERCE A #4E

API Well No. 3004526608	Surface Logo Location 013-030N-010W-K	Field Name BASIN DAKOTA (PRODUCED GAS)	License No.	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,361.00	Original XSBRT Elevation (ft) 6,373.00	CS Ground Distance (ft) 12.00	CS Casing Flange Distance (ft)	CS Tubing Flange Distance (ft) 6,373.00	

Original Spud Date 12/13/1985	Latitude (°) 36° 48' 31.356" N	Longitude (°) 107° 50' 19.968" W
----------------------------------	-----------------------------------	-------------------------------------

PBTDs	
Depth (ftGS) 7,585.0	Com

Formations	
Formation Name	Final Top MD (ftGS)
CHACRA	3,946.0
MESA VERDE	4,627.0
MENEFEE	4,768.0
POINT LOOKOUT	5,257.0
MANCOS	5,654.0
GALLUP	6,337.0
GREENHORN	7,268.0
GRANEROS	7,319.0
DAKOTA	7,466.0

Casing Strings						
Casing Description		Run Date	Set Depth (ftGS)	Comment		
Surface		12/13/1985	220.0			
Item Des	OD Nominal (in)	Nominal ID (in)	Wt (lb/ft)	Grade	JS	Section Length (ft)
Casing Joints	9 5/8	9.001	32.30	H-40	5	207.00
Casing Shoe	9 5/8	9.001			1	1.00
Casing Description		Run Date	Set Depth (ftGS)	Comment		
Intermediate1		12/16/1985	3,389.0			
Item Des	OD Nominal (in)	Nominal ID (in)	Wt (lb/ft)	Grade	JS	Section Length (ft)
Casing Joints	7	6.456	20.00	K-55	77	3,376.00
Casing Shoe	7	6.456			1	1.00
Casing Description		Run Date	Set Depth (ftGS)	Comment		
Production1		12/23/1985	7,591.0			
Item Des	OD Nominal (in)	Nominal ID (in)	Wt (lb/ft)	Grade	JS	Section Length (ft)
Casing Joints	4 1/2	4.052	10.50	J-55	160	6,447.09
Casing Joints	4 1/2	4.000	11.60	J-55	19	819.54
Marker Joint	4 1/2	4.000	11.60	J-55	1	13.53
Casing Joints	4 1/2	4.000	11.60	J-55	7	291.29
Float Collar	4 1/2	4.052			1	0.80
Casing Joints	4 1/2	4.052	10.50	J-55	1	6.00
Casing Shoe	4 1/2	4.052			1	0.75

Cement			
Cas	Start Date	End Date	Com
Surface Casing Cement	12/13/1985		CEMENT W/ 140 SXS CLASS 'B', 1/4#/SX GEL-FLAKE & 3% CACL (165 CUFT)
Intermediate Casing Cement	12/16/1985		TOC 1500' RAN BY TEMP SURVEY ON 12/16/1985. CEMENT W/ 207 SXS CLASS 'B' 65/35 POZ, 6% GEL, 1/2 CUFT/SX PERLITE & 2% CACL (400 CUFT) FOLLOWED BY 100 SXS CLASS 'B' & 2% CACL (118 CUFT)
Production Casing Cement	12/23/1985		TOC 2800' RAN BY TEMP SURVEY ON 12/23/1985. CEMENT W/ 244 SXS CLASS 'B', 8% GEL, 1/4 CUFT/SX FINE GILSONITE, 0.4% HR-7 (529 CUFT) FOLLOWED BY 100 SXS CLASS 'B', 1/4#/SX FINE TUF-PLUG & 0.4% FLUID ADDITIVE (118 CUFT)

Tubing Production set at 7,523.0ftKB on 12/29/1985 00:00								
Tubing Description	Run Date	Set Depth (ftGS)	Comment					
Tubing Production	12/29/1985	7,523.0						
Item Des	OD Nominal (in)	Nominal ID (in)	Wt (lb/ft)	Grade	Top Thread	JS	Len (ft)	
Tubing	1.9	1.610	2.90	J-55		224	7,476.80	
Pump Seating Nipple	1.9					1	0.75	
Tubing	1.9	1.610	2.90	J-55		1	33.45	

Perforations				
Date	Top (ftGS)	Bot (ftGS)	Zone	Com
12/28/1985	7,369.0	7,538.0	BASIN: DAKOTA, Original Hole	PERF DAKOTA 7369, 71, 73, 75, 77, 81, 83, 85, 87, 89, 91; 7469, 71, 73, 75, 82, 84, 86, 88, 90; 7521, 23, 36, 38

Stimulations & Treatments		
Hydraulic Fracture on 12/28/1985 00:00		
Type	Zone	Comment
Hydraulic Fracture	BASIN::DAKOTA, Original Hole	FRAC W/ 98,000# 20/40 SAND, 88,200 GALS SLICKWATER & 50# GEL