

A - PLUS WELL SERVICE, INC.

P.O. BOX 1979
FARMINGTON, NM 87499
505-325-2627 • FAX: 505-325-1211

Phillips Petroleum Company
Indian P #1 (Mesaverde/Pictured Cliffs)
1386' FNL, 1236' FEL, Sec. 16, T-27-N, R-3W
Rio Arriba County, NM.,
Jicarilla Cont. #90

September 11, 1996
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Plug & Abandonment Report

Cementing Summary:

- Plug #1 with tubing at 5657', mix 12 sxs Class B cement and spot above bridge plug to 5551' to isolate Mesaverde formation.
- Plug #2 with retainer at 3713', mix 37 sxs Class B cement, squeeze 31 sxs cement under retainer into Pictured Cliffs perforations and leave 6 sxs cement above to 3588'.
- Plug #3 with retainer at 3588', while mixing 162 sxs Class B cement, pressure increased from 1200# to 1600#; stopped mixing cement and squeezed 124 sxs cement outside 5-1/2" casing from 3642' to 3302' to cover the Ojo Alamo interval, final squeeze pressure 1800#; sting out of retainer and spot 38 sxs cement above retainer to 3252'.
- Plug #4 with retainer at 2340', mix 66 sxs Class B cement, squeeze 54 sxs cement outside 5-1/2" casing from 2395' to 2295' and leave 12 sxs inside to 2234' to cover Nacimiento top.
- Plug #5 with 194 sxs Class B cement pumped down 5-1/2" casing from 225' to surface, circulate 1 bbl good cement out bradenhead.

Plugging Summary:

Attempted to contact Jicarilla office on 9/6/69
Notified Jicarilla Tribe 8:33 am, 9/9/96

- 9-6-96 Safety Meeting. Road rig and equipment to location. Spot rig and equipment on location. RU rig and equipment. Open up well, no pressures. ND wellhead. PU on tubing and remove tubing hanger. Strip on BOP and NU. PU on tubing and work packer at 5652' free. POH and inspect 60 joints 2-3/8" tubing. Shut in well. SDFD.
- 9-9-96 Safety Meeting. Open up well, no pressure. Finish POH with 181 joints tubing. LD 5-1/2" packer and 16 more joints. Total 197 joints tubing, 6157'. RU A-Plus wireline truck. RIH with 5-1/2" wireline bridge plug; set at 5658'. PU 5-1/2" cement retainer and RIH with tubing to 5657'. Plug #1 with tubing at 5657', mix 12 sxs Class B cement and spot above bridge plug to 5551' to isolate Mesaverde formation. POH to 3713' and set 5-1/2" cement retainer. Pressure test tubing to 1500#; held OK. Sting out of retainer. Load casing with corrosion inhibitor treated water. Attempt to pressure test casing, leak 1/2 bpm at 800#. Sting into retainer and establish rate 2 bpm at 500#. Plug #2 with retainer at 3713', mix 37 sxs Class B cement, squeeze 31 sxs cement under retainer into Pictured Cliffs perforations and leave 6 sxs cement above to 3588'. POH with tubing. Perforate 3 squeeze holes at 3647'. RIH with 5-1/2" wireline cement retainer; set at 3588'. PU stinger and RIH; sting into retainer at 3588'. Establish rate into squeeze holes 1 bpm at 1500#. Shut in well. SDFD.

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Plugging Summary Continued:

9-10-96 Safety Meeting. Open up well. Establish rate into squeeze holes 1 bpm at 1200#. Plug #3 with retainer at 3588', while mixing 162 sxs Class B cement, pressure increased from 1200# to 1600#; stopped mixing cement and squeezed 124 sxs cement outside 5-1/2" casing from 3642' to 3302' to cover the Ojo Alamo interval, final squeeze pressure 1800#; sting out of retainer and spot 38 sxs cement above retainer to 3252'. POH with tubing. Attempt to pressure test casing, leak 2 bpm at 500#. RU A-Plus wireline truck. Perforate 3 squeeze holes at 2395'. RIH with wireline cement retainer; set at 2340'. PU tubing and stinger; sting into retainer at 2340'. With bradenhead open to pit, establish rate into squeeze holes 2 bpm at 500#. Plug #4 with retainer at 2340', mix 66 sxs Class B cement, squeeze 54 sxs cement outside 5-1/2" casing from 2395' to 2295' and leave 12 sxs inside to 2234' to cover Nacimiento top. POH and LD tubing. Perforate 3 squeeze holes at 225'. Establish circulation out bradenhead with 12 bbls water. Plug #5 with 194 sxs Class B cement pumped down 5-1/2" casing from 225' to surface, circulate 1 bbl good cement out bradenhead. Shut in well and WOC. Dig out wellhead. Cut wellhead off. Found cement at surface in 5-1/2" casing and down 5' in annulus. Mix 15 sxs Class B cement, fill 9-5/8" casing annulus and install P&A marker. RD rig and equipment and move off location.

No Jicarilla Tribal representative was on location.