

Drill Stem Test	11450	11480	Lower Penn. 2 packers, 3 hrs. 5/8" BHC and 1" SC, 2200' WC, Gas 1 hr. 10 min. Est. 10 MCF/24 hrs. Rec. 2200' oil and gas out WC, and 3150' oil slightly out with drlg. mud, Gravity 41.0 @ 60°, no water, BHFP 750-1600#, 15 min. S-I BHP 2650#, HH 5850-5700#. unloaded while pulling drill pipe.
Lime	11480	11483	
6-3/4" Dia. core Lower Penn.	11483	11503	Rec. 20', 3' finely crystalline gray limestone, fractured, trace fluorescence, 4' finely crystalline brown and gray limestone, 1' black shale, 2' finely crystalline gray limestone, 2' black shale, 2' finely crystalline gray limestone, 2' black shale, 4' finely crystalline brown and gray limestone.
Drill Stem Test	11445	11503	Lower Penn, 2 packers, 3 hrs. 5/8" BHC and 1" SC, 2200' WC, Gas 68 min. Est. 31 MCF/24 hrs. Rec. 1510' heavy oil and gas out drlg. mud, Est. 60% oil, Gravity 43.1 @ 60°, and 2200' heavily oil and gas out WC, BHFP 1045-1445#, 20 min. S-I BHP 2800#, HH 5575-5515#
Schlumberger ran Electric Survey, Gamma Ray, Laterolog and Microlog	4750	11509	
Lane Wells ran Gamma Ray and Neutron log	0	11519	
Halliburton ran calipers	4738	11503	
			<u>Set 7" OD casing @ 11503 w/Hamco Cementing Collar @ 9850, cemented below collar w/170 sac 68 gal, 17 sac signalite and 100 sac neat. Circ. 15 sac, WOC 4 hrs, cemented thru collar w/728 sac 68 gal, 68 sac signalite, and 100 sac neat, (WOC 6 1/2 hrs. after completion second stage.)</u>
Halliburton ran Temp. Survey	1000	8910	Approx. top of cement @ 2191 9-5/8" @ 4700 Drilled cement 9375-9900 Test CC @ 9850 w/2000# 30 min. no break Blank 9900-11294, Drill cement 11294-11500 Test 7" OD casing w/2000# 30 min. no break. Circ. to oil.
Lane Wells ran Gamma Ray and Neutron log		11521	
Lane Wells perf. 7" OD	11466	11484	w/6 SPF (Jet) by survey Set 2" tubing @ 11498 w/Guiberson Hookwall packer @ 11390 Swab 120 BFO 12 hrs. 2000' OIH, gasing behind swab, 2/10 BS, no water.
Western Co. acidized perf.	11466	11484	w/500 gals. 20% Special Low Tension, TP 2000-2400#, CP 1500-2700#, 42 min. 4/10 BPM.

