

Reperforated the Morrow zone w/2-0.41" holes each @ 11539', 11541', 11542', 11612', 11613' and 11614'. Ran 2-7/8" OD tubing with a Baker Lok-set packer set @ 11478'. Swabbed 10 BLW/8 hrs. with no show of gas. Released packer set @ 11478' and spotted 75 gals 7-1/2% MSA acid @ 11539 - 11614'. Reset packer @ 11477'. Pressured tubing to 4600# and formation broke. Displaced 75 gals acid away @ 3 B/M and 4500#. Bled pressure off tubing. Acidized thru Morrow perfs 11539 - 11614' w/2925 gals 7-1/2% MSA acid w/additives + 1000 SCF/bbl + 24 ball sealers. Good ball action. Max. press. 6850#, min. press. 6400#, AIR 4.6 B/M, ISIP 5400#, 10 min SIP 4900#. Flowed 40 BLW in 2 hrs and died. Swabbed 6 BLW/6 hrs with gas rate of 2.6 MCFD. Pulled tubing and packer set @ 11477'. Set a CIBP @ 11180' and dumped 4 sacks of cement of top of CIBP to 11148'. Pressure tested casing and CIBP to 1500# - Held O.K. Perforated the Atoka zone w/2-0.41" holes each @ 10841', 10843', 10846', 10848', 10860', 10864', 10866', 10874', 11003', 11005', 11006', 11008', 11010', 11013', 11090', 11093', 11095' and 11097'. 16 hr SITP 0#. Set a RBP @ 11118'. Spotted 1 bbl acid across perfs 11090 - 11097'. Set a RTTS tool @ 11056'. Acidized thru Atoka perfs 11090 - 11097' w/1000 gals 7-1/2% MS acid w/additives. Formation broke @ 4600#. Max. press. 7000#, min press. 5100#, AIR 6.6 B/M, ISIP 3100#, 5 min SIP 2650#. Reset RBP @ 11056'. Spotted 1 bbl acid across perfs 11003 - 11013'. Set a RTTS tool @ 10931'. Acidized thru Atoka perfs 11003 - 11013' w/1000 gals 7-1/2% MS acid w/additives. Formation broke @ 5000#. Max. press. 6200#, min. press. 5400#, AIR 7.5 B/M, ISIP 2300#, 5 min SIP 2100#. Reset RBP @ 10931'. Spotted 1 bbl acid across perfs 10841 - 10874'. Set a RTTS tool @ 10767'. Acidized thru Atoka perfs 10841 - 10874' w/3000 gals 20% DS-30 acid w/additives + 12 ball sealers. Formation broke @ 3500#. Max. press. 6100#, min. press. 3700#, AIR 10 B/M, ISIP 2700#, 5 min SIP 2400#. Reset RBP @ 11118' and a RTTS tool @ 10766'. Swabbed Tr. Dist. + 36 BLW + 6 BFW/22 hrs + gas @ rate of 88 MCFD thru 3/8" choke, FTP 18#. Loaded tubing w/60 bbls fresh water w/2% KCl. Pulled tubing, RTTS tool @ 10766' and RBP set @ 11118'. Set a CIBP @ 10800' and dumped 4 sacks of cement of top of CIBP to 10765'. Cleaned out to 10700' and circulated hole w/10#/gal Brine Water w/2% KCl. Spotted 100 gals 10% Acetic Acid @ 10468 - 10368'. Perforated the Strawn Ls. zone w/2-0.41" holes each @ 10426', 10429', 10431', 10435', 10450', 10454', 10456', 10459', 10461' and 10463'. Ran and set 2-7/8" OD tubing and a Baker Lok-set packer @ 10343'. Swabbed 18 BLW/10 hrs with gas TSTM. 16 hr SITP 75#. Acidized thru Strawn Ls. perfs 10426' - 10463' w/2500 gals 15% LST NE acid w/additives + 1000 SCF Nitrogen/bbl. + 40 ball sealers. Max. press. 6400#, min. press. 6000#, AIR 6.6 B/M, ISIP 5600#, 5 min SIP 4900#. 36 hr SITP 800#. Swabbed - - B. Dist. + 45 BW/3 hrs. Ran tracer survey. Pumped in formation @ 1-1/2 B/M with pressure increasing from 400# to 3400#. No fluid entry 10426 - 10454', 29% fluid entry 10456 - 10461' and 71% fluid entry 10461 - 10463'. No indication of cement channel. Pulled 2-7/8" OD tubing and packer set @ 10343'. Ran tubing with a RTTS tool set @ 10316' and squeezed the Strawn Ls. perfs w/75 sacks Class H w/0.6 of 1% Halad 9 and 50 sacks Class H w/0.3 of 1% HRY. cement, Max. press. 5500# w/94 sacks in formation, 14 sacks below RTTS tool in 5-1/2" casing and reversed out 17 sacks. Pulled tubing and RTTS tool set @ 10316'. Pressure tested casing to 1500# for 15 min - Held O.K. Perforated the Canyon zone w/2-0.41" holes each @ 9761', 9762', 9763', 9766', 9768' and 9769'. Ran and set 2-7/8" OD tubing and a Baker Lok-set packer @ 9667'. Swabbed 48 BLW/6 hrs and well kicked off and started flowing gas @ rate of 40 MCFD thru 1" choke, FTP 5#. Flowed Tr. Dist. + 10 BLW/5 hrs + gas @ rate of 41 MCFD thru 3/8" choke, FTP 5#. Acidized thru Canyon perfs 9761 - 9769' w/2000 gals 15% MS acid + 1000 SCF Nitrogen/bbl + 15 ball sealers. Max. press. 7000#, min. press. 5150#, AIR 4.8 B/M, ISIP 4350#, 10 min. SIP 4200#, 20 min. SIP 3900#. 16 hr SITP 2800#. Swabbed and flowed 6 Bbls. Dist. + 4 BFW/9 hrs. + gas @ rate of 164 MCFD thru 3/4" choke, FTP 5#. Pulled tubing and Baker Lok-set packer @ 9667'. Set a CIBP @ 9700' and dumped a 4 sack cement plug on top of CIBP @ 9700 - 9635'. Ran open ended 2-7/8" OD tubing in hole and shut well in.