

MACK ENERGY CORPORATION

Willow State #1
330FSL 2280FEL SEC 16 T17S R31E

WELL HISTORY

PRTD:	5500'
TD:	8989'
SP Csg:	13 3/8" 48# ST&C J-55 @ 345' C/w 370sx Class C w/2% CC (CIRC 150sx)
INT Csg:	8 5/8" 32# J-55 @ 3000' Cmt w/540sx Halliburton Light Premium Plus, 1/4 lb/sx Flocele, 10 lb/sx Salt & 170sx Premium Plus 2% CC (Circ 50sx)
LS Csg:	5 1/2" 17# N-80 & J-55 LT&C csg to 8973'. Cmt 1st stage w/100sx 50/50 poz, 3/10 of 1% CFR3, 5/10% Halad-9, 5# salt, & 425sx Hal Lite, 1/4# Flocele, 5# salt, tail in 150sx 50/50 poz, 3/10 of 1% CFR3, 5/10% Halad-9, 5# salt, Circ 120sx. Cmt 2nd stage w/525sx Hal Lite, 1/4# flocele, 5# salt, tail in 185sx 50/50 poz, 3/10 of 1% CFR3, 5/10% Halad-9, 5# salt, Circ 28sx.
T SALT:	
B SALT:	
PERFS:	

DRILLING & COMPLETION REPORT

03/27/96 Spud 17 1/2" hole @ 6:00 P.M., T.D. 17 1/2" hole at 355' @ 4:45 A.M., Prep to run Csg.

03/28/96 Ran 11 Jts 13 3/8" 48# ST&C J-55 Csg. Landed csg at 345', Cement 13 3/8" casing with 370sx Class C w/2% CC, Circ 150sx to Pit. Started Drilling 12 1/4" Hole at 9:30 P.M.

04/02/96 T.D. 12 1/4" Hole @ 3000', Prep to Run Csg. Ran 73 Jts 8 5/8" 32# J-55 csg. Cement w/540sx Halliburton Light Premium Plus, 1/4 lb/sx Flocele, 10 lb/sx Salt & 170sx Premium Plus 2% CC. Circ 50sx to Pit.

04/24/96 Ran 201 Jts 5 1/2" 17# N-80 & J-55 LT&C csg to 8973'. Cmt 1st stage w/100sx 50/50 poz, 3/10 of 1% CFR3, 5/10% Halad-9, 5# salt, & 425sx Hal Lite, 1/4# Flocele, 5# salt, tail in 150sx 50/50 poz, 3/10 of 1% CFR3, 5/10% Halad-9, 5# salt, Circ 120sx. Cmt 2nd stage w/525sx Hal Lite, 1/4# flocele, 5# salt, tail in 185sx 50/50 poz, 3/10 of 1% CFR3, 5/10% Halad-9, 5# salt, Circ 28sx.

05/07/96 Perforate Csg 1 shot per foot @ 8807, 08, 12, 13, 14, 15, 17, 18, 8 shots.

05/08/96 Acidized perfs 8807-18,

05/09/96 ReAcidized perfs w/7500 gals acid. Prep to put well on pump.

05/10/96 Finish pulling out of well with workstring, RIH with 283 Jts. New 2 3/8" J-55 Tubing, 5 1/2 x 2 3/8" Tubing anchor, tubing sup, seating nipple, land SN @ 8858ft., set tubing anchor and pull 12pts.

RIH with 2 x 1 1/4 x 20 x 22' Hollow valve rod pump, heavy wall barrel, run on btm. 2' x 7/8" pony rods, 500ft. 25-7/8" rods, middle 6000ft. 240-3/4" rods and top 2300ft. 92-7/8" rods all new WCN type 97 with ponies. flange wellhead up. Installed Pumping Unit, building Tank Battery.

05/15/96 Pumped - 5 oil and 1 water.

05/16/96 Rig up Halliburton Well Service, pump 20,000 gals 20% NEFE gelled acid at a rate of 3 BPM @ avg PSI 3951#, followed by 10,000 gals watergel 30, pumped at 3 BPM @ avg PSI 4249#, shut in 1 hr, flow back well completely dead in 2 hours. SDFD.

05/17/96 Unseat RTTS, wash to btm, pull out well and laydown RTTS and workstring. RIH w/283 Jts new 2 3/8" J-55