

Wellbore Diagram

Lease & Well No. **Shugart West 19-Federal #003**
Field Name **Shugart**
Location **1980' FSL & 1980' FWL, Sec. 19, T18S, R31E**

Status **Active**
County & State **Eddy County, NM**
API No. **30-015-30648**

Well Information

Spud: **6/16/99** Ground Elevation: **3,621'** D.F. Elevation:
Completed: **8/10/99** KB Elevation: **3,635'** Total Depth: **9,850'**

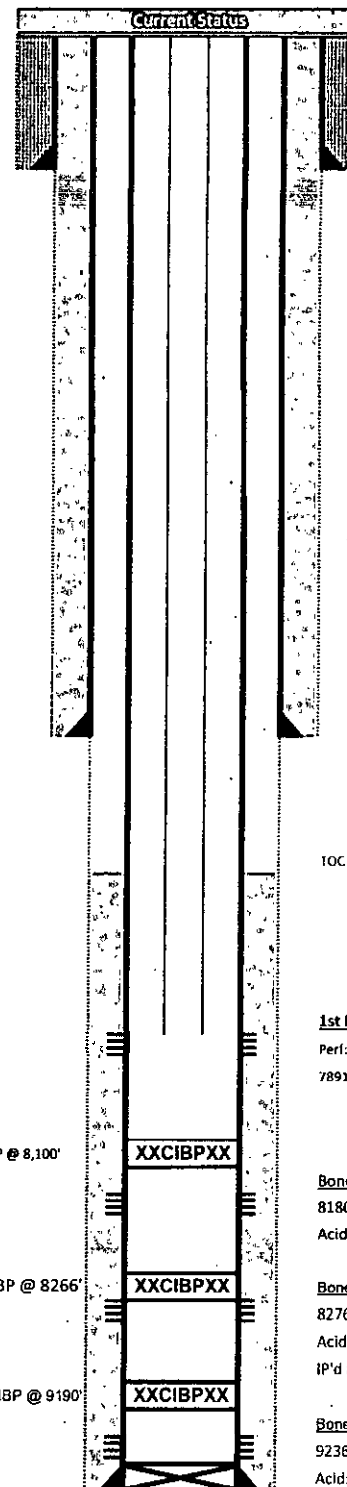
Pipe Data

Surface						
Hole size	Depth	Size (OD)	Weight	Grade	Sx. Cmt	Comments
17-1/2"	539'	13-3/8"	48.0#		3/0 sx	
Intermediate						
Hole size	Depth	Size (OD)	Weight	Grade	Sx. Cmt	Comments
11"	2,848'	8-5/8"	32.0#		1,150 sx	
Production						
Hole size	Depth	Size (OD)	Weight	Grade	Sx. Cmt	Comments
7 7/8"	9,528'	5-1/2"	15.5 / 17#		445 sx	TOC @ 7,440' CBL

Downhole Tubulars (Top to Bttm):	
252 jls 2-7/8" lbg @ 8023'	
2-7/8" x 5-1/2" IAC @ 8026'	
4 jls 2-7/8" lbg @ 8146'	
2-1/8" SN @ 8047"	
2-7/8" MJ @ 8180'	

Well History

5/16/1999 Spud well and drill/complete in the Bone Springs. TD well @ 9850'
7/15/1999 Perf 9236'-50'. 2 spf, 120 deg phasing. Acdz w/ 1500 gals 15% HCl and 45 ball sealers. Tested wet. Set CIBP @ 9190' w/ 35' of cement. Perf 8276'-80', acdz w/ 500 gals 15% HCl w/ 20 ball sealers and xylene. Swab tested all wet. Set CIBP @ 8268'. Perf 8180'-8230'. Acdz w/ 5000 gals 15% HCl and 500 gals Xylene w/ 240 ball sealers. IP'd @ 131 bopd x 91 mcf/d x 212 bwpd
12/13/2012 Well first showing signs of gas locking. Pump would pressure up to 500# in three strokes then bleed off. Then the was bled off and then resumed pumping.
3/12/2013 Pump parted. Repaired and back online
3/18/2013 Well not pumping again. Pump sent in but no signs of problems. Respaced and hung BOL. BHP @ 58#. BHP of offset producers 19-1 & 19-4 are 188# and 238#, respectively.
4/12/2013 Test csg above perfs and test CIBP from 8253'. Acdz w/ 5000 gal 15% HCL and salt diversion and 100 gal xylene. Pumped 172 bbls total w/ flush. Max rate 5bpm and max 1685psi. ISIP vac; 10 vac; 15 vac.
8/8/2014 Set CIBP @ 8,100' w/2 sxs cmt. Isolate csg leak from 3891' - 3925'. Set CIBP @ 3827' & sqz w/200 sxs cmt. Perf 7730' - 7921' (OA). Frac w/3930 bbls (20# x-link) & 145k# 20/40 ottawa, 25k# 20/40 rcs garnet Run production equipment.



OCD Tops (MD)	
Rustler	
Yates	
7 Rivers	
Queen	3,128'
San Andres	
Glorieta	
Bone Spring	5,844'
Bone SS	7,658'
Abo	
Wolfcamp	9,675'
Strawn	
Atoka	

TOC - 7,440' (CBL)

1st Bone Springs Sand

Perf: 7730-7736, 7742-7748, 7786'
7891-7896, 7905-7908, 7913-7921

Bone Springs Dolomite

8180-8230 (6 spf - 73 hole
Acidize with 5000 gals 15% HCl

Bone Springs Dolomite

8276 - 8280
Acid: 500 gal 15%
IP'd all water, no oil

Bone Springs Dolomite

9236' - 9250'
Acid: 1500 gal 15% HCl