

## Permian Resources, Inc

### Hilburn No. 3

#### **Procedure to Drill Vertical Wellbore to Test, Log and Evaluate North Shoe Bar (Strawn) Pool then Set Casing, Mill Window, Kick-Off and Drill Horizontally in Strawn Porosity to Proposed BHL**

##### Proposed Surface Location

660' FNL & 510' FWL  
Section 13, T16S, R35E  
Lea County, New Mexico

##### Proposed Bottom Hole Location

1980' FNL & 1980' FWL  
Section 13, T16S, R35E  
Lea County, New Mexico

##### Proposed Hole Sizes, Casing Sizes and Cement

17-1/2" hole @ 450'	13-3/8" 54.5 #/ft casing @ 450'	Cmt w/ $\pm 450$ sx Class "C" w/ 2% CaCl. Sufficient to circulate to surface.
12-1/4" hole @ $\pm 4,200'$	8-5/8" 32 & 24 #/ft casing @ $\pm 4,200'$	Cmt w/ $\pm 2100$ sx Lite lead + 400 sx "C" + 2% CaCl tail. Sufficient to circulate to surface.
7-7/8" hole @ $\pm 11,400'$	5-1/2" 20 & 17 #/ft casing @ 11,400'	Cmt w/ $\pm 600$ sx "H" pozmix w/ RFA & retarders + 400 sx "H". Sufficient to bring TOC to $\pm 4,000'$ .
4-5/8" hole @ $\pm 13,346'$ MVD		

##### Abbreviated Proposed Procedure

1. Contract John West Surveys to survey confirming surface location as permitted and providing latitude and longitude. Build roads, location, cellar and dig pits to accommodate selected drilling rig. Drill mouse hole and rat hole
2. MIRU rotary drilling rig. Drill 17-1/2" surface hole utilizing FW native spud mud and circulating cellar returns with #2 pump cellar jet to  $\pm 450'$ . Survey @ TD. Circ. and condition hole. POOH w/ DP, Collars & BHA. Run  $\pm 450'$  of 13-3/8" Used or LS, 54.5 #/ft, K-55, ST&C casing w/ float equipment. Land casing and cement with 100% excess  $\pm 450$  sx Class "C" + 2% CaCl cement. Circulate cement to surface. WOC 12 hrs. Cut off and weld on 13-3/8" x 8-5/8" series 600 flanged casing head. NU 13-3/8" x 5000# Shaffer double preventer with 13-3/8" x 5000# Hydrill annular preventer. Test casing and BOP to 1000#. PU 12-1/4" Bit, BHA, collars and RIH. Wait on cement total of 18 hrs before drilling plug.
3. Drill 12-1/4" intermediate hole utilizing 10 # BW circulating inside reserve pit adding oil if necessary for Red Beds. Drill to TD @  $\pm 4,200'$ . Surveys every 500', Max deviation 5 deg., Max change 1-1/2% per 100'. Circ. and condition hole. POOH w/ DP, Collars & BHA. Run  $\pm 4,200'$  of 8-5/8", 32 & 24 #/ft, J-55, ST&C casing w/ float equipment. Land casing and cement with  $\pm 2,000$  sx Lite Wt lead cement + 500 sx Class "C" w/ 2% CaCl. Circulate cement to surface. WOC 8 hrs. Cut off and weld on 8-5/8" x 5-1/2" series 600 flanged casing head. NU BOP and test casing to 1000#. NU choke manifold, install mud degasser and flare line. Test BOP, choke manifold and associated lines. Install rotating head. PU 7-7/8" bit, BHA, collars and RIH. Wait on cement total of 18 hrs before drilling plug.

