

WEEKLY DRILLING REPORT

Shell Oil Company		LEASE <u>State A</u>	WELL <u>1</u>
(COMPANY)		DISTRICT <u>Bohels</u>	ELEV. _____
FROM <u>7-19</u>	TO <u>7-23</u>	COUNTY <u>Lee</u>	STATE <u>New Mexico</u>
19 <u>52</u>		PARISH _____	

WELL DATA

DATE	DEPTH		FORMATION (FROM SAMPLES)	REMARKS
	FROM	TO		
(con't) 7-19	PBTD	11,692'	Dolomite	would take weight and hang mill. New pulling mill.
7-20 thru 7-22	"	"	"	Layed down mill, ran 4-3/4" casing roller, took 5000# weight @ 8172'. Rotated and roller freed @ 8175', then was free down to 8207', where it took weight and stopped. Circulated clear water, ran roller 8145'-8185' several times, until completely free to 8207', then pulled roller. Went in hole with 4-3/4" impression block, took 2000# weight to push block through 8172'-8175', then free to 8207'. Set down with 6000#, pulled block and had 2000# drag through 8172'-8175'. Block showed severe scarring on all sides, and edges of bottom and top, which gave impression of wedging in junk. No impression of anything on flat surface of block bottom, and no impression of block having gone outside of casing. Shut down for 12 hours, then went in hole with 2nd 4-3/4" impression block, required 6000# to force block through 8172'-8175'; then free to 8207'. Set down block with 6000#. Pulled block and required 4000# to pull back through 8172'-8175', pulled back to surface. Block showed severe scars on sides and edges, but was not very similar to block 1. Block 2 had heavy impression 3/4" wide diagonal across block bottom. Ran 4-3/4" casing swedge, found very slight restriction from 8172'-8175', then went on to 8207' with swedge. Pulled and reran swedge a number of times from 8145' to 8185'. Then rotated from 8170'-180° until all restriction was gone. Pulled swedge. Went back in hole with 4-3/4" clustrite shoe and 2 joints 4-3/4" wash pipe, found no restriction 8172'-8175', went to 8207' and began milling. In 1 1/2 hours after starting to mill, got formation cutting to surface, red beds and sand, but no drilling mud. Circulating pressure 700 psi. Milled to 8212' @ 25 minutes per foot. Failed to find any top of tubing. Pulled up 10' and went back down and mill stopped @ 8211'. Pulled mill and wash pipe, mill was badly damaged, but wash pipe showed no scars. Mill had run very rough at last of milling. Ran 4-3/4" bit to 8210' and it took weight there. Ran for 30 minutes with 2000-6000# weight, but made no footage. Bit ran rough, with considerable torque, as if it were on junk. Circulated small amount of formation cuttings, pulled bit. Ran 4-5/8" impression block, requiring 8000# to push through 8172'-8175', then free to 8210'. Set down with 6000#, pulled out and took no extra weight to pull through 8172'-8175'. Pulled impression block to surface. Showed deep jagged scar 1-1/4" wide and 3" long. Straight across bottom of block. Very heavy scars on sides of block as if made by an outside edge of crushed pipe. Now out of hole.
7-23	PBTD	11,692'	Dolomite	Went in hole with 4-3/4" flat mill with clustrite surface; and 2 stabilizers located 4' and 34' above mill. Found no restriction @ 8172'-8175'. Began torque up @ 8208' and started taking weight @ 8209'. Milled to 8211 1/2", then mill began running smooth and quit making hole. Were running 2000-7000# weight. Circulated small amount of sand. Pulled mill and found it worn, but with circular ring also worn in it. Ring is approximately size of tubing collar. Now going in hole with impression block.