LESSEE Phillips Petroleum Company LESSOR Osage Tribe of Indians (M.S.Norman

WELL NO. 16 SEC. 11 T. 27 R. 5 OSAGE COUNTY Oklahoma 02656 6-4359

FORMATION RECORD

From	To	Feet	Note each change in formation, i. e., sand, lime, shale, sandy shale, etc. Note character of each formation, i. e., color, hard, soft, caving, etc. Underreamed? Note contents of each formation, i. e., oil, gas, water, and kind of water—salty, etc.
Surface	50	50	Soft red rock
50	75	25	Hard white lime 13-2
75	80	5	Soft blue shale
80	100	20	Hard white lime
100	110	10	Hard medium dark broken lime
110	115	5	Soft red rock
115	170	55	Hard white lime
170	175	5	Soft red rock
175	235	60	Hard white lime
235	245	10	Soft blue shale
245	255	10	Hard white lime
255	305	50	Soft white shale
305	310	5	Hard white lime
310	350	40	Soft white shale
350	360	10	Soft brown sand (1½ brls. water)
360	370	10	Hard white lime
370	400	30	Soft blue shale
400	440	40	Soft white shale
440	445	5	Hard white lime
445	485	40	Soft blue shale
485	490	5	Hard white lime
490	565	75	Soft white shale
565	575	10	Hard white lime
575	580	5	Soft blue shale
580	585	5	Hard white lime
585	595	10	Soft blue shale
595	605	10	Hard white lime
605	645	40	Soft blue shale
645	650	5	Hard white lime
650	660	10	Soft blue shale
660	670	10	Hard white lime
670	680	10	Soft brown sand (2 blrs. water)
680	710	30	Soft white shale
710	730	20	Soft red rock
730	735	5	Hard white lime
735	760	25	Soft white shale
760	765	5	Hard white lime
765	785	20	Soft blue shale
785	790	5	Soft brown sand (2 blrs. water increasing to 5 bailers)
790	810	20	Soft white shale
810	820	10	Hard white lime
820	830	10	Soft white shale
830	860	30	Soft blue shale
860	870	10	Soft red rock
870	875	5	Soft light sandy shale
875	880	5	Hard white lime (Run 15½" pipe at 880')
880	900	20	Soft white shale