LESSEE Phillips Petroleum Company LESSOR Osage Indian Tribe (N.S.Sherman)

WELL NO. 17 SEC. 11 T. 27 R. 5 OSAGE COUNTY Oklahoma. 02659

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	10	10	Cellar
10	25	15	Red rock red soft 20" 18' 3"
25	35	10	Lime light hard
35	110	75	Red rock red soft
110	150	40	Lime light hard
150	160	10	Shale blue soft
160	220	60	Lime light hard
220	225	5	Shale blue soft
225	275	50	Lime light hard
275	300	25	Shale blue soft
300	305	5	Lime light hard
305	400	95	Shale blue soft
400	420	20	Sandy lime light hard
420	450	30	Shale blue soft
450	460	10	Lime light hard
460	515	55	Shale light soft
515	565	50	Shale blue soft
565	590	25	Shale white soft
590	600	10	Lime light hard
600	605	5	Shale blue soft
605	610	5	Lime light hard
610	680	70	Shale blue soft
680	685	5	Lime light hard
685	700	15	Shale blue soft
700	705	5	Lime light hard
705	715	10	Red rock red soft
715	800	85	Shale blue soft
800	825	25	Sand light soft 10 Bailers water @ 810
825	905	80	Shale blue soft Ran 15½" @ 900'
905	910	5	Lime light hard
910	945	35	Shale blue soft
945	975	30	Lime light hard
975	985	10	Shale blue soft
985	1005	20	Lime light hard
1005	1020	15	Shale blue soft
1020	1035	15	Lime light hard
1035	1045	10	Shale blue soft
1045	1085	40	Red rock red soft
1085	1095	10	Sand light soft HFW @ 1090
1095	1120	25	Shale blue soft
1120	1140	20	Sand light soft Caving @ 1160
1140	1160	20	Shale blue soft
1160	1225	65	Sandy lime light hard Run 12½" @ 1235 CM
1225	1350	125	Shale blue soft
1350	1370	20	Red rock red soft
1370	1400	30	Shale light soft HFW Dry Cave 1360
1400	1440	40	Sand light soft HFW @ 1410
1440	1455	15	Shale blue soft Caving