

BENNETT - CATHEY
Artesia, New Mexico 88210
SUBSURFACE PRESSURE MEASUREMENTS

COMPANY GREAT WESTERN DRILLING
DATE OF TEST 9-4-81 TO 9-8-81

WELL NAME QUAIL FEDERAL WELL NO. 2
FORMATION ABO

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CHART READINGS AND CALCULATIONS FOR BUILDUP OR DRAWDOWN TEST

ELEMENT NUMBER RPG3 #18753 RANGE 7,600 LBS
CLOCK NUMBER 21850 RANGE 120 HOURS
TIME WELL SHUT IN 1915 HOURS 9-4-81
TIME CLOCK STARTED 1356 HOURS
DEAD WEIGHT ELEMENT ON SURFACE 1042 SHUT IN LBS.
TIME ELEMENT REACHED BOTTOM 1435
DEAD WEIGHT ELEMENT ON BOTTOM 544 FLOWING END OF FOUR POINT LBS.
ELEMENT SET AT 3890 FEET.
TEMPERATURE 3890 102 °F.
1028 PSIA DEAD WEIGHT AT THE END OF 91 HOURS 58 MINUTES.

DATE	HOUR	TIME	DEFLECTION in/inches	CALCULATED PRESSURE psig	CORRECTION P ± PC psig	CORRECTED PRESSURE psia	PRESSURE AT MID-POINT OF PERFORATIONS psia
9-4-81		1435		1118	13.2		1131
START TEST	0	1515		1118	13.2		1131
	1/4	1530		1099	13.2		1112
	1/2	1545		1080	13.2		1093
	3/4	1600		1073	13.2		1086
END RATE 1	1	1615		1065	13.2		1078
	1-1/2	1630		1034	13.2		1047
	1-1/2	1645		1019	13.2		1032
	1-3/4	1700		1011	13.2		1024
END RATE 2	2	1715		1004	13.2		1017
	2-1/4	1730		912	13.2		925
	2-1/2	1745		886	13.2		899
	2-3/4	1800		863	13.2		876
END RATE 3	3	1815		859	13.2		872
	3-1/4	1830		786	13.2		799
	3-1/2	1845		760	13.2		773
	3-3/4	1900		740	13.2		753
END RATE 4	4	1915		731	13.2		744
START BUILD UP	0	1915		729	13.2		742
	1/4	1930		950	13.2		963
	1/2	1945		1011	13.2		1024
	3/4	2000		1046	13.2		1059
	1	2015		1061	13.2		1074
	1-1/4	2030		1074	13.2		1087
	1-1/2	2045		1088	13.2		1101
	1-3/4	2100		1092	13.2		1105
	2	2115		1095	13.2		1108
	3	2215		1110	13.2		1123
	4	2315		1116	13.2		1129
	5	2415		1124	13.2		1137
9-5-81	6	0115		1126	13.2		1139
	7	0215		1129	13.2		1142
	8	0315		1131	13.2		1143
	9	0415		1131	13.2		1143
	10	0515		1131	13.2		1143
	20	1515		1137	13.2		1150
9-6-81	30	0115		1141	13.2		1154
9-8-81	89	1215		1141	13.2		1154



BENNETT-CATHEY WIRE LINE SERVICE

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BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR GREAT WESTERN DRILLERS
LEASE QUAIL FEDERAL
WELL NO. 2
POOL FORMATION ABO
DATE 9-8-81 TIME 1512 HOURS
STATUS SHUT IN TEST DEPTH 3890
TIME S.I. 1915 HOURS LAST TEST DATE FIRST TEST
9-4-81 BHP LAST TEST
TUB. PRES. 1028 BHP CHANGE
ELE. FLUID TOP
DATUM PLANE WATER TOP
DATUM PSIA 1150 RUN BY BOB HERRON
TEMP 102° PRESSURE RANGE 7600
CLOCK NO.
ELEMENT NO. RPG #18753

DEPTH	PRESSURE	GRADIENT
0	1028	
1,000	1060	3.2
2,000	1089	2.9
3,000	1121	3.2
3,740	1144	3.1
3,890	1150	4.0

TIME B.H.P. MEASURED: 1512 HOURS

LENGTH OF TIME WELL SHUT IN: 91 HOURS
58 MINUT

