Niobrara to PreCambrian **Leased Acreage** 300072003900 ANNIE BELL 001 BELL WESTERN CORP. 300070703600 LANDON K MOORE 001 MELVIN E. CONDRON 300070501200 300072001200 PRE-ONGARD WELL 001 AMERICAN MANUFACTURING COMPANY OF TEXAS <11.87MI> <10.02MI> <0.47MI> <10.22MI> Sangre De Cristo Glorieta Pennsylvania (percent) Niobrara Apishapa Fort Hays Carlile Greenhorn Graneros Dakota Morrison no source facies Eocene no source facies biogenic gas window upper oil window Granite Vermejo Fm. wet gas + dry gas window (in deep basis Pierre Shale 0.5 - 1.67 Niobrara Shale 0.95 - 2.03 T31N-R22E T31N-R24E 31N 26E Limestone 1-26N-20E RCN RCN Perm. Basin Spl. Lab. surface----0-1325 - 15 + MILIVOLTS Carlile Shale Pierre Niobrara 1325 Apishipa Greenhorn Limestone T30N-R24E Carlisle RESISTIVITY OHMS M²/M RESISTIVITY OHMS M²/M Graneros Shale - → 15k-+ Top Dakota T29N-R21E T29N-R22E T29N-R19E T29N-R20E 29N 25E NEW MEXICO BUREAU OF MINES AND MINERAL RESOURCES Wingate Middle reservoir facies Source unknown no major source facies Santa Rosa T28N-R19E T28N-R20E T28N-R23E reservoir facies Amer Mfg of Texas #1 - log # 4994 Remarks:

Water 30, 1440, 2955. Salt water 2345

SG 180, 2 MCF 270-90, 280, 1465, 2885, 2938, 5 3/16 Tog 938 at Middle Moenkopi Fm no source facies 2 MCF 311/2-101/0 pressure.

SO 171/5, 181/0, 1950, 2095, 231/5, 2885, 2938, Elev. 6275 Est.

3022, 3260--52 gravity, 3876. 2 MCF 3142--1040 pressure. 5-23-78 5-25-78 6-2-78 P&A 6550 GR. 6546

O. Total Depth 21. Flug Back T.D. 22. If Multiple Compl., How Drilled By Drilled By 0 - 4078 802 FWL T27N-R19E T27N-R20E T27N-R21E T27N-R22E 27N 25E reservoir facies INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE TO-3825 of Ft. Hays ?-1000 T Carlile 1000 Dakota 1365 biogenic gas window (east) Elev 6400 T. Salt ______ T. Strawn _____ T. Kir-lund-Fruitland _____ T. Penn. "C" ______ dry gas window ET Purgatoire oil window T. Yates _____ T. Miss _____ T. Cliff House _____ T. Leadville _____ Gr Korrison Er Wanakah T. 7 Rivers ______ T. Devonian _____ T. Menelee _____ T. Madison _____ Virgilian Shot or Acid: T. Queen ______ T. Silurian _____ T. Point Lookout _____ T. Elbert _____ T. Grayburg ______ T. Montoya _____ T. Mancos _____ T. McCracken _____ T. Grayburg T. Montoya T. Mancos T. Maccacken T. Singhala T. San Andres T. Singhala T. Singhala T. Singhala T. Singhala T. Singhala T. T. Granite T. Granite T. Granite T. Bilinebry T. Gr. Wash 2802 T. Mortison 1516 T. T. Tubb T. Granite 4000 T. Todilto 1856 T. T26N-R23E T26N-R19E T26N-R22E 26N 24E 26N 25E 26N 26E Missourian Madera Group ar Dockum "TSang de Cristo 2885 mples 200 - 3314 dry gas window to T. Drinkerd ______ T. Delaware Sand _____ T. Ent: ada _____ T.

T. Abo _____ T. Bone Springs _____ T. Wingate _____ T. (deep basin) (1) Show: 2 MCF(2) Show: Oil 52 Gravity T. Wolfcainp _____ T. ____ T. Chiele ____ T. ____ T. Penn. ____ T. ___ T. Pernian ____ T. Formation Morrowan T25N-R23E 25N 24E 25N 25E T25N-R22E Arroyo Penasco Mississippian no source facies Precambrian no source facies T24N-R22E 24N 24E T24N-R23E 24N 23E 24N 25E T24N-R21E