

# McPherson Drilling

## Drillers Log

API NO.

S. T. R.e

OPERATOR: M.A.E. Resources, Inc.  
 ADDRESS: 20655 SW 700 RD. Welda, KS. 66091  
 WELL NO. 1 Disposal  
 FOOTAGE LOCATION:

LOCATION:  
 COUNTY:

LEASE NAME: Koch  
 FROM THE South Line  
 FROM THE WEST LINE

PRINCIPLE CONTRACTOR: MCPHERSON DRILLING

SPUD DATE: 10/11/99  
 COMPLETED DATE: 10/14/99  
 TOTAL DEPTH: 1571 ft.

GEOLOGIST: Brad Cook

### CASING RECORD

#### SURFACE

SIZE HOLE: 10 1/2"  
 SIZE CASING: 8 5/8"  
 WEIGHT:  
 SETTING DEPTH: 31'  
 TYPE CEMENT: PORTLAND  
 SACKS: 10

#### PRODUCTION

6 3/4"  
 4 1/2"  
 1568'

### WELL LOG

FORMATION	TOP	BOTTOM	FORMATION	TOP	BOTTOM	FORMATION	TOP	BOTTOM
Soil	0	2	Shale	479	609	Sandy lime	890	896
Clay	2	6	Lime	609	646	Shale	896	939
Shale	6	17	Shale	646	650	Sand/shale	939	1025
Lime	17	59	Lime	650	652	Shale	1025	1187
Shale	59	71	Shale	652	670	Coal	1187	1190
Lime	71	129	Pink Lime	670	683	Shale	1190	1219
Shale/sand	129	209	Shale	683	722	Miss. Lime	1219	1227
Lime	209	215	Sandy Shale	722	725	Break	1227	1234
Shale	215	251	Lime	725	735	Lime	1234	1315
Lime	251	255	Shale	735	751	Osage	1315	1331
Shale	255	256	Lime	751	756	Lime	1331	1476
Lime	256	283	Shale	756	769	Shale	1476	1480
Sand/shale	283	299	Lime	769	773	Lime	1480	1539
Shale	299	304	Shale	773	789	Shale	1539	1569
Coal	304	306	Lime	789	798	Arb. Lime	1569	1571
Shale	306	312	Shale	798	817			
Lime	312	316	Lime	817	824 TD			
Shale	316	341	Shale	824	831			
Lime	341	347	Lime	831	837			
Shale	347	364	Sandy shale	837	844			
Lime	364	427	Oil sand	844	867			
Coal	427	430	Shale	867	871			
Shale	430	454	Sandy shale	871	874			
Lime	454	458	Shale	874				

COMMENTS:

1315 - 1331 Water out on air

## DRILLERS LOG

S. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ E. \_\_\_\_\_  
W. \_\_\_\_\_

API No. 15 -  -  0000  
County \_\_\_\_\_ Number \_\_\_\_\_

Loc. \_\_\_\_\_

County \_\_\_\_\_

Operator  
**MAE Resources**

Address \_\_\_\_\_

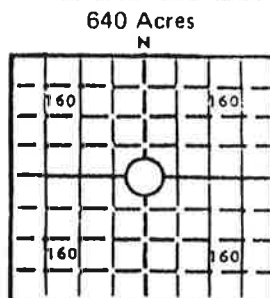
Well No. **Disposal #1** Lease Name **Koch**

Footage Location  
feet from (N) (S) line \_\_\_\_\_ feet from (E) (W) line \_\_\_\_\_

Principal Contractor **McPherson Drilling** Geologist \_\_\_\_\_

Spud Date **10/11/99** Total Depth **1571'** P.B.T.D. \_\_\_\_\_

Date Completed **10/14/99** Oil Purchaser \_\_\_\_\_



Locate well correctly

Elev.: Gr. \_\_\_\_\_

DF \_\_\_\_\_ KB \_\_\_\_\_

### CASING RECORD

Report of all strings set—surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
SURFACE	10 1/2"	8 5/8"		31'	PORTLAND	10	
PRODUCTION	6 3/4"	4 1/2"		1568'	50-50 PORTLAND		

### WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

**1315-1331 Water out on air**

Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.
SOIL	0	2	SHALE	479	609	SANDY LIME	890	896
CLAY	2	6	LIME	609	646	SHALE	896	939
SHALE	6	17	SHALE	646	650	SAND/SHALE	939	1025
LIME	17	59	LIME	650	652	SHALE	1025	1187
SHALE	59	71	SHALE	652	670	COAL	1187	1190
LIME	71	129	PINK LIME	670	683	SHALE	1190	1219
SHALE/SAND	129	209	SHALE	683	722	MISS. LIME	1219	1227
LIME	209	215	SANDY SHALE	722	725	BREAK	1227	1234
SHALE	215	251	LIME	725	735	LIME	1234	1315
LIME	251	255	SHALE	735	751	OSAGE	1315	1331
SHALE	255	256	LIME	751	756	LIME	1331	1476
LIME	256	283	SHALE	756	769	SHALE	1476	1480
SAND/SHALE	283	299	LIME	769	773	LIME	1480	1539
SHALE	299	304	SHALE	773	789	SHALE	1539	1569
COAL	304	306	LIME	789	798	ARB. LIME	1569	1571
SHALE	306	312	SHALE	798	817			
LIME	312	316	LIME	817	824			
SHALE	316	341	SHALE	824	831			
LIME	341	347	LIME	831	837			
SHALE	347	364	SAND/SHALE	837	844			
LIME	364	427	OIL SAND	844	867			
COAL	427	430	SHALE	867	871			
SHALE	430	454	SANDY SHALE	871	874			
LIME	454	479	SHALE	874	890			

TD