



Scale: 5" / 100'  
Measured Depth Log

**Well Name** Hovenweep A-5 (HA-5)

**Location** 30+/- Mi. North of Cortez, CO

**State** CO

**County** Montezuma

**Country** US

**Rig Number** NABORS 405

**API Number** 05-083-06702-00

**Region** Colorado

**Field** McElmo Dome

**Spud Date** 20SEPT2013

**Drilling Completed** 17OCT2013

**Surface Coordinates** SHL: 1610'FNL, 272' FEL, SEC. 29, T38N, R18W NMPM

**Ground Elevation** 6742'

**K.B. Elevation** 25.5' = 6767.5'

**Logged Interval** 5200 To 8325'

**Total Depth** 8325'

**Formation** Leadville Base

**Type of Drilling Fluid** Fresh Water

## Operator

**Company** KINDER MORGAN CO2 CO., LP

**Address** 17801 HWY 4881  
Colorado

## Geologist

**Name** Leon Walters

**Company** Above Enterprise

510 Old Lubbock HWY  
Snyder, TX 79549

## Other

## Rock Types

UNKNOWN	DOLOMITE	SHALE GRAY	TILL
ANHYDRITE	CHERT	SHALE COLORED	BENTONITE
GYPSUM	COAL	SILTSTONE	TUFF
SALT	MARLSTONE	SANDSTONE	IGNEOUS
SIDERITE or LIMONITE	CLAYSTONE	CONGLOMERATE	METAMORPHIC
LIMESTONE	SHALE	BRECCIA	

## Accessories

### Fossils

ALGAE  
AMPHIPORA  
BELEMNITE  
BIOCLASTIC  
BRACHIOPOD  
BRYOZOA  
CEPHALOPOD  
CORAL  
CRINOID  
ECHINOID  
FISH  
FORAMINIFERA

### Fossil

GASTROPOD  
OOLITE  
OSTRACOD  
PELECYPOD  
PELLET  
PISOLITE  
PLANT REMAINS  
PLANT SPORES  
SCAPHOPOD  
STROMATOPOROID

### Minerals

ANHYDRITIC

### Argillaceous

ARGILLITE GRAIN  
BENTONITE  
BITUMENOUS SUBSTANCE  
BRECCIA FRAGMENTS  
CALCAREOUS  
CARBONACEOUS FLAKES  
CHTDL  
CHTLT  
COAL - THIN BEDS  
DOLOMITIC  
FELDSPAR  
FERRUGINOUS PELLET  
FERRUGINOUS

### Glauconite

GYPSIFEROUS  
HEAVY MINERAL  
KAOLIN  
MARLSTONE  
MINERAL CRYSTALS  
NODULES  
PHOSPHATE PELLETS  
PYRITE  
SALT CAST  
SANDY  
SILICEOUS  
SILTY  
TUFFACEOUS

### Stringer

ANHYDRITE STRINGER  
BENTONITE STRINGER  
COAL STRINGER  
DOLOMITE STRINGER  
GYPSUM STRINGER  
LIMESTONE STRINGER  
MARLSTONE (CALC) STRG  
MARLSTONE (DOL) STRG  
SANDSTONE STRINGER  
SHALE STRINGER  
SILTSTONE STRINGER

## Other Symbols

### Oil Show

DEAD  
EVEN  
QUESTIONABLE  
SPOTTED STAINING

### Porosity

EARTHY  
FENESTRAL  
FRACTURE  
INTERCRYSTALLINE  
INTEROOLITIC

### Moldic

ORGANIC  
PINPOINT  
VUGGY

### Engineering

BIT  
CONNECTION (LEFT)  
CONNECTION (RIGHT)  
CONNECTION GAS  
CORE - LOST  
CORE - RECOVERED  
DST INTERVAL

### Fault

FORMATION TOP  
GAS SHOW  
MN DEPTH  
NORMAL FAULT  
OIL SHOW  
OVERTURNED STRATA  
REVERSE FAULT  
SIDEWALL CORE (LEFT)  
SIDEWALL CORE (RIGHT)  
SLIDE  
SURVEY  
TRIP GAS

### Wireline Tested - Left

WIRELINE TESTED - RT

### Rounding

ANGULAR  
ROUNDED  
SUBANG  
SUBRND

### Textures

BOUNDSTONE  
CHALKY  
CRYPTOXLN

### Earthy

FINELYXLN  
GRAINSTONE  
LITHOGRAPHIC  
MICROXLN  
MUDSTONE  
PACKSTONE  
WACKESTONE

### Sorting

MODERATE  
POOR  
WELL



































