Oklahoma Corporation Commission
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000
Rule 165: 10-3-25

Form 1002A

API No.: 35047250210000

OTC Prod. Unit No.: 047-217124

**Completion Report**

Spud Date: March 28, 2015

Drilling Finished Date: October 16, 2015

1st Prod Date: January 27, 2016

Completion Date: January 17, 2016

**Drill Type:** **HORIZONTAL HOLE**

Min Gas Allowable: Yes

Well Name: COTTONTAIL 1-28H

Purchaser/Measurer: MUSTANG GAS

Location: GARFIELD 28 21N 8W
SE SE SW SW
225 FSL 1000 FWL of 1/4 SEC
Latitude: 36.2609331 Longitude: -98.0650443
Derrick Elevation: 19 Ground Elevation: 1233

First Sales Date: 02/11/2016

Operator: U S ENERGY DEVELOPMENT CORPORATION 23402

2350 N FOREST RD
GETZVILLE, NY 14068-1296

| Completion Type | |
|---|---|
| X | Single Zone |
| | Multiple Zone |
| | Commingled |

| Location Exception |
|---|
| Order No |
| 651497 |

| Increased Density |
|---|
| Order No |
| 650882 |

**Casing and Cement**

| Type | Size | Weight | Grade | Feet | PSI | SAX | Top of CMT |
|---|---|---|---|---|---|---|---|
| CONDUCTOR | 16 | 94 | F-25 | 80 | | 10 | SURFACE |
| SURFACE | 9 5/8 | 36 | J-55 | 506 | 68 | 300 | SURFACE |
| PRODUCTION | 7 | 26 | P-110 | 7397 | 45 | 290 | 3259 |

**Liner**

| Type | Size | Weight | Grade | Length | PSI | SAX | Top Depth | Bottom Depth |
|---|---|---|---|---|---|---|---|---|
| LINER | 4.5 | 11.6 | P-110 | 4538 | 0 | 0 | 7320 | 11858 |

**Total Depth: 11865**

| Packer | |
|---|---|
| Depth | Brand & Type |
| There are no Packer records to display. | |

| Plug | |
|---|---|
| Depth | Plug Type |
| There are no Plug records to display. | |

## Initial Test Data

| Test Date | Formation | Oil BBL/Day | Oil-Gravity (API) | Gas MCF/Day | Gas-Oil Ratio Cu FT/BBL | Water BBL/Day | Pumpin or Flowing | Initial Shut-In Pressure | Choke Size | Flow Tubing Pressure |
|---|---|---|---|---|---|---|---|---|---|---|
| Feb 01, 2016 | MISS SAND | 75 | 38 | | | 851 | JET PUMP | 50 | | |

## Completion and Test Data by Producing Formation

Formation Name: MISS SAND  Code: 351MSSND  Class: OIL

### Spacing Orders

| Order No | Unit Size |
|---|---|
| 62980 | 640 |

### Perforated Intervals

| From | To |
|---|---|
| There are no Perf. Intervals records to display. | |

### Acid Volumes

4,240 GALLONS

### Fracture Treatments

3,298,950 POUNDS 40/70, 136,577 BARRELS H20

| Formation | Top |
|---|---|
| VERDIGRIS | 6568 |
| PINK | 6669 |
| INOLA | 6793 |
| CHESTER | 6903 |
| MISSISSIPPI CHAT | 7062 |
| MISSISSIPPI | 7149 |

Were open hole logs run? No
Date last log run:

Were unusual drilling circumstances encountered? No
Explanation:

### Other Remarks

LINER TOP @ 7,320', LINER SHOE @ 11,858', OPEN HOLE SLIDING SLEVE LINER, TURNED TO TANK BATTERY ON FEBRUARY 11, 2016. OCC - THIS WELL IS AN OPEN HOLE COMPLETION FROM BOTTOM OF 7" CASING AT 7,397' TO TERMINUS AT 11,865'. THE 4 1/2" LINER IS NOT CEMENTED.

**Lateral Holes**

Sec: 28 TWP: 21N RGE: 8W County: GARFIELD

NE NE NW NW

201 FNL 980 FWL of 1/4 SEC

Depth of Deviation: 6553 Radius of Turn: 876 Direction: 360 Total Length: 4461

Measured Total Depth: 11865 True Vertical Depth: 7179 End Pt. Location From Release, Unit or Property Line: 201

## FOR COMMISSION USE ONLY

1133123

Status: Accepted

| API NO. | 3504725021 |
|---|---|
| OTC PROD. UNIT NO. | 047217124 |

PLEASE TYPE OR USE BLACK INK ONLY

NOTE:

Attach copy of original 1002A if recompletion or reentry.

[X] ORIGINAL
[ ] AMENDED (Reason)

OKLAHOMA CORPORATION COMMISSION
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000
Rule 165:10-3-25

RECEIVED
MAR 22 2016
OKLAHOMA CORPORATION COMMISSION

Form 1002A
Rev. 2009

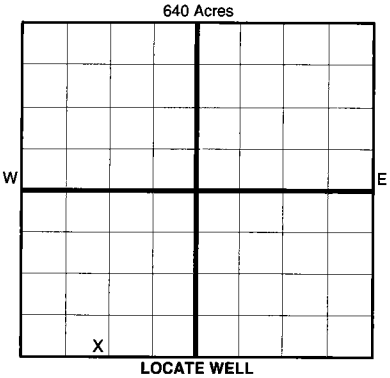
## COMPLETION REPORT

TYPE OF DRILLING OPERATION
[ ] STRAIGHT HOLE [ ] DIRECTIONAL HOLE [X] HORIZONTAL HOLE
[ ] SERVICE WELL
If directional or horizontal, see reverse for bottom hole location.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| COUNTY | Garfield | SEC | 28 | TWP | 21N | RGE | 8W |
| LEASE NAME | Cottontail | | | | | WELL NO. | 1-28H |
| SE 1/4 | SE 1/4 | SW 1/4 | SW 1/4 | FSL OF 1/4 SEC | 225 | FWL OF 1/4 SEC | 1000 |
| ELEVATION N Derrick | 19 | Ground | 1233 | Latitude (if known) | 36.2609331 | Longitude (if known) | -98.0650443 |
| OPERATOR NAME | U.S. Energy Development Corp. | | | | | OTC/OCC OPERATOR NO. | 23402 |
| ADDRESS | 2350 North Forest Road | | | | | | |
| CITY | Getzville | | | STATE | NY | ZIP | 14068 |

| | |
|---|---|
| SPUD DATE | 3/28/15 |
| DRLG FINISHED DATE | 10/16/15 |
| DATE OF WELL COMPLETION | 1/17/16 |
| 1st PROD DATE | 1/27/16 |
| RECOMP DATE | |
| Longitude (if known) | -98.0650443 |

640 Acres




LOCATE WELL

**COMPLETION TYPE**

| | |
|---|---|
| [X] | SINGLE ZONE |
| [ ] | MULTIPLE ZONE Application Date |
| [ ] | COMMINGLED Application Date |
| LOCATION EXCEPTION ORDER | ~~640555~~ 651497 F.O. |
| INCREASED DENSITY ORDER NO. | 650882 |

**CASING & CEMENT (Form 1002C must be attached)**

| TYPE | SIZE | WEIGHT | GRADE | FEET | PSI | SAX | TOP OF CMT |
|---|---|---|---|---|---|---|---|
| CONDUCTOR | 16 | 94 | F-25 | 80 | | 10 | surface |
| SURFACE | 9 5/8 | 36 | J-55 | 506 | 68 | ~~285~~ 300 | surface |
| INTERMEDIATE | 7 | 26 | P-110 | 7,397 | 45 | 290 | 3259 calc |
| PRODUCTION | | | | | | | |
| LINER | 4.5 | 11.6 | P-110 | ~~7320 4544~~ 11858 | | | |

Per 1002C

PACKER @ _____ BRAND & TYPE _____ PLUG @ _____ TYPE _____ PLUG @ _____ TYPE _____
PACKER @ _____ BRAND & TYPE _____ PLUG @ _____ TYPE _____ PLUG @ _____ TYPE _____

TOTAL DEPTH 11,865

**COMPLETION & TEST DATA BY PRODUCING FORMATION** 351MSSND

| FORMATION | Miss Sand | | | | | |
|---|---|---|---|---|---|---|
| SPACING & SPACING ORDER NUMBER | ~~60 acre spacing~~ 62980 (640) | | | | | |
| CLASS: Oil, Gas, Dry, Inj, Disp, Comm Disp, Svc | oil | | | | | |
| PERFORATED INTERVALS | open hole ~~7397 - 11858~~ | | | | | |
| ACID/VOLUME | 4240 | gal | | | | |
| FRACTURE TREATMENT (Fluids/Prop Amounts) | 3,298,950 | lb 40/70 | | | | |
| | 136,577 | bbl H20 | | | | |

AS SUBMITTED

[X] Min Gas Allowable (165:10-17-7) OR Oil Allowable (165:10-13-3)

Gas Purchaser/Measurer: Mustang Gas
First Sales Date: 2/11/2016

**INITIAL TEST DATA**

| | | | | | | |
|---|---|---|---|---|---|---|
| INITIAL TEST DATE | 2/1/2016 | | | | | |
| OIL-BBL/DAY | 75 | | | | | |
| OIL-GRAVITY ( API) | 38 | | | | | |
| GAS-MCF/DAY | 0 | | | | | |
| GAS-OIL RATIO CU FT/BBL | 0 | | | | | |
| WATER-BBL/DAY | 851 | | | | | |
| PUMPING OR FLOWING | Jet pump | | | | | |
| INITIAL SHUT-IN PRESSURE | 50 | psi | | | | |
| CHOKE SIZE | n/a | | | | | |
| FLOW TUBING PRESSURE | n/a | | | | | |

A record of the formations drilled through, and pertinent remarks are presented on the reverse. I declare that I have knowledge of the contents of this report and am authorized by my organization to make this report, which was prepared by me or under my supervision and direction, with the data and facts stated herein to be true, correct, and complete to the best of my knowledge and belief.

| SIGNATURE | NAME (PRINT OR TYPE) | DATE | PHONE NUMBER |
|---|---|---|---|
| | Todd C. Witmer | 3/21/2106 | (716) 636-0401 |

| ADDRESS | CITY | STATE | ZIP | EMAIL ADDRESS |
|---|---|---|---|---|
| 1521 N Cooper Street | Arlington | TX | 76011 | twitmer@usedc.com |

PLEASE TYPE OR USE BLACK INK ONLY

FORMATION RECORD

Give formation names and tops, if available, or descriptions and thickness of formations drilled through. Show intervals cored or drillstem tested.

| NAMES OF FORMATIONS | TOP |
|---|---|
| Verdigris | 6,568 |
| Pink | 6,669 |
| Inola | 6793 |
| Chester | 6,903 |
| Miss Chat | 7,062 |
| Miss | 7,149 |

LEASE NAME Cottontail WELL NO. 1-28H

FOR COMMISSION USE ONLY

ITD on file ☐ YES ☐ NO

APPROVED DISAPPROVED

2) Reject Codes

Were open hole logs run? ___ yes _X_ no

Date Last log was run

Was $CO_2$ encountered? ___ yes _X_ no at what depths?

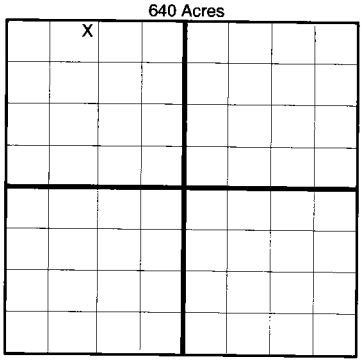
Was $H_2S$ encountered? ___ yes _X_ no at what depths?

Were unusual drilling circumstances encountered? ___ yes _X_ no
If yes, briefly explain below

Other remarks: Liner top @ 7,320', Liner Shoe @ 11,858', open hole sliding sleeve liner, turned to tank battery on 2/11/16

OCC - This well is an open hole completion from bottom of 7" casing at 7397' to terminus at 11865'. The 4½" liner is not cemented.

640 Acres

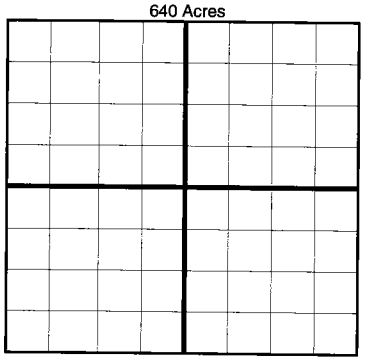



If more than three drainholes are proposed, attach a separate sheet indicating the necessary information.

Direction must be stated in degrees azimuth. Please note, the horizontal drainhole and its end point must be located within the boundaries of the lease or spacing unit.

Directional surveys are required for all drainholes and directional wells.

640 Acres



**BOTTOM HOLE LOCATION FOR DIRECTIONAL HOLE**

| SEC | TWP | RGE | COUNTY | | | |
|---|---|---|---|---|---|---|
| Spot Location 1/4 | 1/4 | 1/4 | 1/4 | Feet From 1/4 Sec Lines | FSL | FWL |
| Measured Total Depth | | True Vertical Depth | | BHL From Lease, Unit, or Property Line: | | |

**BOTTOM HOLE LOCATION FOR HORIZONTAL HOLE: (LATERALS)**

**LATERAL #1**

| SEC 28 | TWP 21N | RGE 8W | COUNTY Garfield | | | |
|---|---|---|---|---|---|---|
| Spot Location NE 1/4 | NE 1/4 | NW 1/4 | NW 1/4 | Feet From 1/4 Sec Lines | FNL 201 | FWL 980 |
| Depth of Deviation 6,553 | | Radius of Turn 876 | | Direction 360 | Total Length 4,461 | |
| Measured Total Depth 11,865 | | True Vertical Depth 7,179 | | BHL From Lease, Unit, or Property Line: 201' FNL & 980' FWL | | |

**LATERAL #2**

| SEC | TWP | RGE | COUNTY | | | |
|---|---|---|---|---|---|---|
| Spot Location 1/4 | 1/4 | 1/4 | 1/4 | Feet From 1/4 Sec Lines | FSL | FWL |
| Depth of Deviation | | Radius of Turn | | Direction | Total Length | |
| Measured Total Depth | | True Vertical Depth | | BHL From Lease, Unit, or Property Line: | | |

**LATERAL #3**

| SEC | TWP | RGE | COUNTY | | | |
|---|---|---|---|---|---|---|
| Spot Location 1/4 | 1/4 | 1/4 | 1/4 | Feet From 1/4 Sec Lines | FSL | FWL |
| Depth of Deviation | | Radius of Turn | | Direction | Total Length | |
| Measured Total Depth | | True Vertical Depth | | BHL From Lease, Unit, or Property Line: | | |