



DIGITAL LOG

(785) 625-3858

Computer Processed  
Interpretation

API No.

15-095-30016-00-01

Company Messenger Petroleum, Inc.

Well Donald #2 'OWWO'

Field Spivey - Grabs

County Kingman State Kansas

Location

150' S-C SW NW  
2130' FNL & 660' FWLOther Services  
DIL/CNL/CDL

Sec: 20

Twp: 29S

Rge: 6W

Elevation

Permanent Datum

Ground Level

Elevation 1554

Log Measured From

Kelly Bushing

K.B. 1563

Drilling Measured From

Front Kelly Bushing

D.F. 1554

Date Recorded

4/12/2012

Depth Logger

4349

Curve Definitions

SW Water Saturation

S XO Water Saturation In The Flushed Zone

VCL Volume Of Clay

PHIE Density - Neutron Crossplot Shale Corrected

BWV Bulk Volume Water

BWM SXO Bulk Volume Water In Flushed Zone

DCAL Caliper

SPC SP Corrected For Baseline

DGA Apparent Grain Density

Payflag If PHIE &gt; 2 %, VCL &lt; 40 %, SPC &gt; -10 , SW &lt; 50 % &amp; DCAL &lt; 11

Recorded By D. Schmidt

Witnessed By Jon Messenger

Analysis By T. Martin

&lt;&lt;&lt; Fold Here &gt;&gt;&gt;

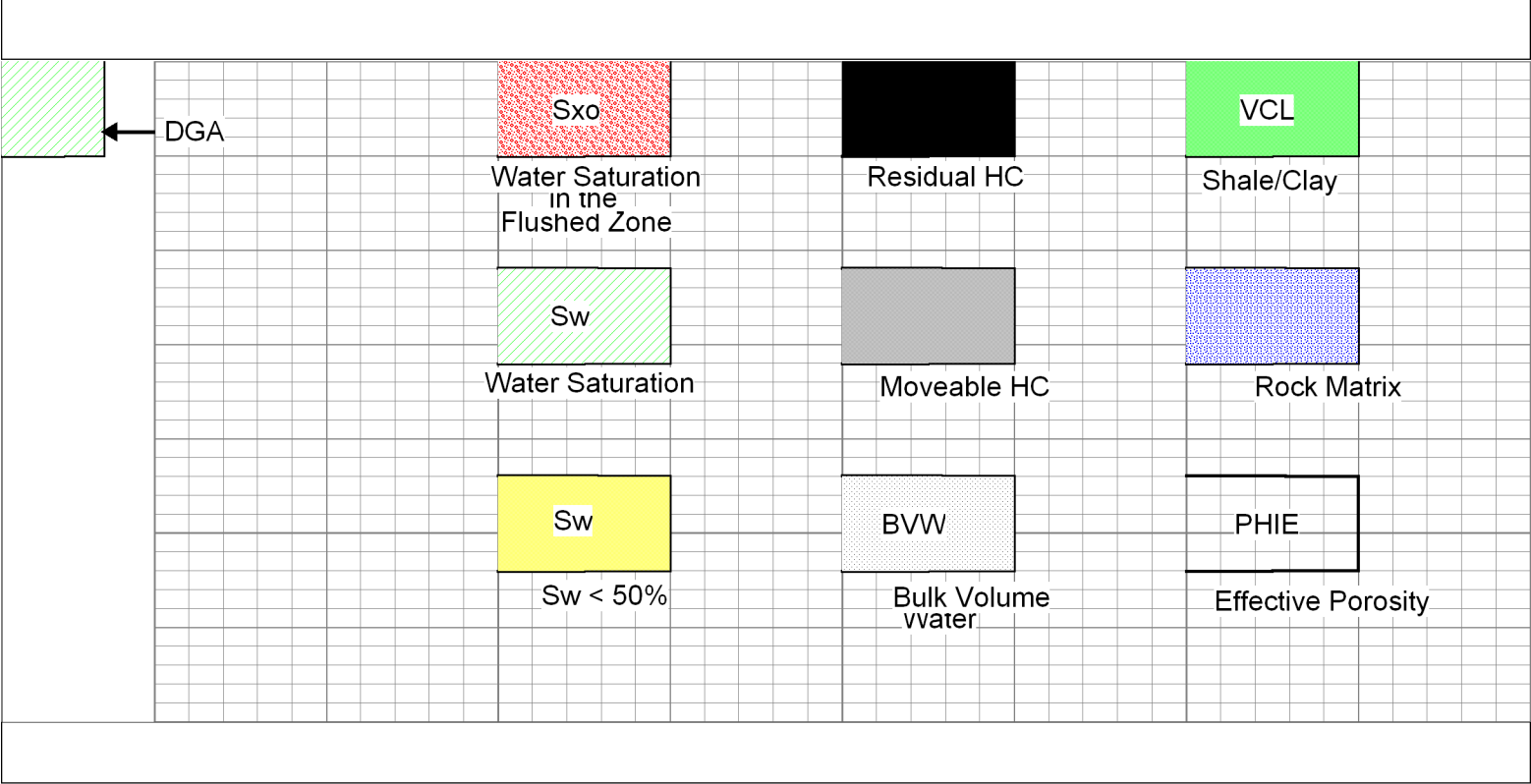
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

## Comments

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Kingman,  
S to 90th, 4 E, 1/2 S,  
E into

Database File: c:\warrior\data\cross plots\2wxplt.db  
Dataset Pathname: litho  
Presentation Format: 2wxplt  
Dataset Creation: Thu Apr 24 14:32:02 1997  
Charted by: Depth in Feet scaled 1:240



|                      |     |                            |     |             |     |     |         |     |        |      |   |   |      |   |
|----------------------|-----|----------------------------|-----|-------------|-----|-----|---------|-----|--------|------|---|---|------|---|
| Database File:       |     | messenger_donald_2hd.db    |     |             |     |     |         |     |        |      |   |   |      |   |
| Dataset Pathname:    |     | dil/msngcpi                |     |             |     |     |         |     |        |      |   |   |      |   |
| Presentation Format: |     | calc                       |     |             |     |     |         |     |        |      |   |   |      |   |
| Dataset Creation:    |     | Thu Apr 12 13:11:44 2012   |     |             |     |     |         |     |        |      |   |   |      |   |
| Charted by:          |     | Depth in Feet scaled 1:240 |     |             |     |     |         |     |        |      |   |   |      |   |
| 20                   | CLF | 1                          | 0   | Gamma Ray   | 150 | 1   | SW      | 0   | 0.3    | PHIE | 0 | 0 | VCL  | 1 |
| 2.6                  | LM  | 3.1                        | 6   | DCAL (GAPI) | 16  | 30  | PAYFLAG | 0   | 0.3    | BVW  | 0 | 1 | PHIE | 0 |
| DGA                  |     | -150                       | SPC | 0           | 1   | SXO | 0       | 0.3 | BVWSXO | 0    |   |   |      |   |
| 2.6                  | 3.1 |                            |     |             |     |     |         |     |        |      |   |   |      |   |
|                      |     |                            |     |             |     |     |         |     |        |      |   |   |      |   |

