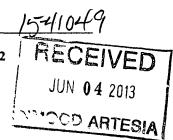
### HALLIBURTON

3950 Interwood South Parkway • Houston, TX 77032
PHONE 281.986.4400 • FAX 281.986.4499



State of New Mexico, Eddy County

I, Brandon Machacek, certify that I am employed by Halliburton Energy Services, Inc. (AKA Sperry Drilling) and that on the dates of March 24, 2013 through April 1, 2013, I did conduct or supervise the taking of a MWD Directional surveys for the well Government AB12 Well from 3118' MD to 6724' MD. This data is true, correct, complete and within the limitations of the tools as set forth by Halliburton Energy Services, Inc. (AKA Sperry Drilling). I am authorized and qualified to make this report and this survey was conducted at the request of Occidental Petroleum for the Government AB12 well, API No. 30-015-41049 in Eddy County, New Mexico. I have reviewed this report and find that it conforms to the principles and procedures as set forth by Halliburton Energy Services, Inc. (AKA Sperry Drilling).

Brandon Machacek MWD Field Engineer Occidental Petroleum
Government AB12
Eddy County, New Mexico
H&P 344
API# 30-015-41049

JUN 04 2013
NMOCD ARTESIA

March 24, 2013 – April 1, 2013 HD-MJ-0900291393

Sperry Drilling MWD Survey Report

Submitted by Brandon Machacek 3950 Interwood South Parkway Houston, TX 77032 Ph: 281.986.4400

HALLIBURTON

**Drilling and Formation Evaluation** 

### Survey Report for Occidental Petroleum

Rig

H&P 344

**Well Name** 

Government AB12

**Field Name** 

Burton Flats N. (Bone Spring)

Country

USA

Job Number

HD-XX-0900291393

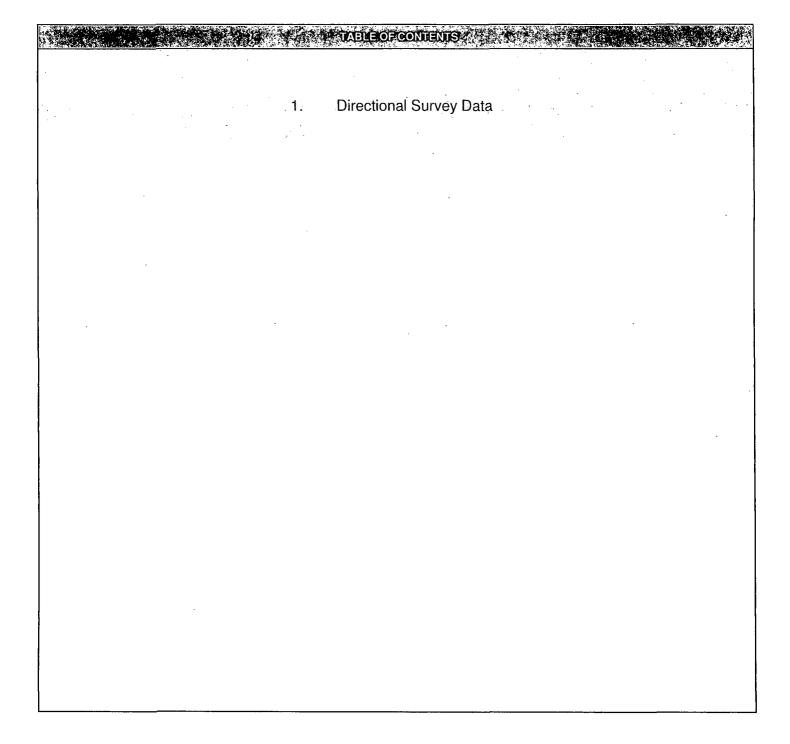
Job Start Date

24-Mar-13

**API Number** 

30-015-41049

Job No: HD-XX-0900291393 Well Name: Government AB12 Survey Report Rage 1



Job No: HD-XX-0900291393 Well Name: Government AB12

Survey Report

Page:2

HALLIBURTON | Specify Delilling



### DIRECTIONAL SURVEY DATA A 17

Tie-in

0.00

0.00

0.00

0.00

0.00 N

0.00 E

| Measured Depth | inellactions : | Direction | Vailed Depth | Laurop     | Departure  | Varied Sallon | Dogleg     |
|----------------|----------------|-----------|--------------|------------|------------|---------------|------------|
| (0)            | (Clag)         | (Clay)    | <b>(M</b> )  | <b>(0)</b> | <b>(0)</b> | <b>(0)</b>    | ((%7100))) |
| 144.00         | 0.31           | 277.97    | 144.00       | 0.05 N     | 0.39 W     | -0.13         | 0.22       |
| 235.00         | 0.40           | 249.14    | 235.00       | 0.02 S     | 0.93.W     | 0.16          | 0.22       |
| 386.00         | 1.58           | 220.31    | 385.97       | 1.80 S     | 2.77 W     | 1.22          | 0.82       |
| 476.00         | 1.32           | , 249, 45 | 475.95       | ,3.11.S    | .4.54.W    | 2.16.         | 0.86       |
| 567.00         | 0.31           | 251.95    | 566.93       | 3.55 S     | 5.75 W     | 2.36          | 1.11       |
| 653.00         | 0.31           | . 192.14  | 652.93       | 3.85.5     | 6:02:W     | 2.60          | 0.36       |
| 751.00         | 0.40           | 170.04    | 750.93       | 4.45 S     | 6.02 W     | 3.19          | 0.17       |
| 872.00         | 0.88           | 219.35    | 871.92       | 5.58 S     | 6.54 W     | 4.20          | 0.57       |
| 1022.00        | 0.88           | 230.33    | 1,021.91     | 7.21 S     | 8.15 W     | 5.47          | 0.11       |
| 1157.00        | 1.19           | 229.06    | 1,156.89     | 8.79°S     | 10.01 W    | 6.66          | 0.23       |
| 1293.00        | 1.41           | 172.06    | 1,292.86     | 11.37 S    | 10.85 W    | 9.03          | 0.92       |
| 1383.00        | 1.49           | 222.03    | 1,382.83     | 13.34 S    | 11.48.W    | 10.83         | 1.36       |
| 1565.00        | 1.41           | 228.44    | 1,564.77     | 16.58 S    | 14.74 W    | 13.38         | . 0.10     |
| 1701.00        | 1.41           | 226.05    | 1,700.73     | 18.85 S    | .17:19 W   | 15.12         | 0.04       |
| 1836.00        | 1.41           | 232.75    | 1,835.69     | 21.01 S    | 19.71 W    | 16.75         | 0.12       |
| 1971.00        | 1.41           | 238.33    | 1,970.65     | 22.89 S    | 22.45 W    | 18.05         | 0:10       |
| 2106.00        | 1.41           | 242.24    | 2,105.61     | 24.54 S    | 25.33 W    | 19.10         | 0.07       |
| 2286.00        | 1.32           | 250.24    | 2,285.56     | 26.27 S    | 29 24 W    | 20:03         | 0.12       |
| 2466.00        | 1.19           | 338.17    | 2,465.53     | 25.23 S    | 31.89 W    | 18.50         | 0.97       |
| 2650.00        | 1.10           | 249.84    | 2,649.50     | 24.07 S    | .34.26 W   | 16.90         | 0.87       |
| 2832.00        | 1.10           | 252.15    | 2,831.47     | 25.21 S    | 37.56 W    | 17.37         | 0.02       |
| 2888.00        | 0.88           | 254,46    | 2,887.46     | 25:49 S    | 38.49 W    | 17.46         | 0.40       |
| 3118.00        | 0.79           | 245.58    | 3,117.44     | 26.61 S    | 41.62 W    | 17.95         | 0.07       |
| 3208.00        | 0.98           | 247.75    | 3,207.43     | 27 16 S    | 42.89 W    | 18.23         | 0.21       |
| 3253.00        | 2.02           | 204.61    | 3,252.41     | 28.02 S    | 43.58 W    | 18.95         | 3.26       |
| 3343.00        | 4.04           | 187.59    | 3,342.28     | 32.61 S    | 44.66 W.,  | 23.23         | 2.43       |
| 3433.00        | 4.52           | 189.56    | 3,432.03     | 39.25 S    | 45.67 W    | 29.55         | 0.55       |
| 3522.00        | 7.71.          | 193.20    | 3.520.51     | 48.51 S    | 47.61 W    | 38:25         | 3.61       |
| 3612.00        | 9.09           | 184.57    | 3,609.55     | 61.48 S    | 49.55 W    | 50.59         | 2.07       |
| 3702.00        | 10.29          | 180.58    | 3,698.27     | 76.60 S    | 50.20 W    | 65.29         | 1.52       |
| 3792.00        | 12.10          | 173.42    | 3,786.56     | 94.01 S    | 49.20 W    | 82.56         | 2.54       |
| 3882.00        | 13.48          | 167.38    | 3,874.32     | 113.62 S   | 45.83 W    | 102.45        | 2.13       |
| 3973.00        | 13.54          | 167.59    | 3,962.81     | 134.37 S   | 41.22 W    | 123.70        | 0.09       |
| 4063.00        | 14.75          | 164.37    | 4,050.08     | .155.70 S  | 35,87 W    | 145.67        | 1.60       |
| 4152.00        | 14.81          | 164.53    | 4,136.13     | 177.58 S   | 29.78 W    | 168.31        | 0.08       |
| 4243.00        | 16.19          | 164.57    | 4,223.82     | , 201.02,S | 23.31 W    | 192.57        | 1.52       |
| 4332.00        | 16.81          | 164.55    | 4,309.15     | 225.39 S   | 16.57 W    | 217.78        | 0.70       |
| 4423.00        | 16.64          | 166.26    | 4,396.30     | 250.74 S   | 9.97.W     | 243.93        | 0.57       |
| 4512.00        | 16.82          | 165.06    | 4,481.53     | 275.56 S   | 3.63 W     | 269.51        | 0.43       |
| ,4602.00       | 16.48          | 165.79    | 4,567:76     | 300.51 S   | 2.86 Ë     | 295.26        | 0.44       |
| 4692.00        | 15.84          | 167.36    | 4,654.20     | 324.87 S   | 8.69 E     | 320.28        | 0.87       |

Well Name: Government AB12 Job No: HD-XX-0900291393

Survey Report Page 3

### DIRECTIONAL SURVEY DATA Varileal Depth Lettivib Vertical Section Measured Depth Inclination Dicalon Departure Dogleg (**CEO**) (11) (0) (ii) (0) (11) (Ce) ((9/100)) 349.48 S 15:40 E 345.73 4782.00 17.13 162.29 4,740.51 2.15 162.68 374.65 S (371.97 <sup>1/7</sup> 0.21 4872.00 16.98 4,826.55 23.35 E 4962.00 16.36 161.66 4.912.77 399.23 S 31.25 E 397.62 0.76 5052.00 17.47 164.69 4,998.87 424.29 S 423.68 1.58 38.81 E 5142.00 17.46 165.37 5.084.72 450.39 S 45.78°E 450.64 0.22 476.39 S 5233.00 16.91 165.12 5,171.66 52.63 E 477:47 0.61 5323.00 15.92 163.23 5,257.99 500.86 S 59.55 E 502.82 1.25 1.12 5413.00 16.93 163.08 525.21 S 66.93 E 528.15 5,344.32 5505.00 550.26 S 16.19 162.54 5,432.51 74.67 E 554.23 0.81 5596.00 17.04 162.45 5,519.70 575.07 S 82.50 E 580.10 0.93 5686.00 17.94 5,605.54 600.85 S 162.30 90.69 E 606.98 1.00 5775.00 17.52 160.53 5,690.32 626.54 S 99.32 E 633.86 0.76 5864.00 17.12 159.72 5,775.28 651.46 S 108.32 E 660.06 0.53 5955.00 16.34 162:10 676.21 S 116.90 Ê 1:15 5,862.43 686.01 6045.00 16.39 164.08 5,948.78 700.46 S 124.27 E 711.24 0.62 724.79 S 0.15 6135.00 16.27 163.89 6,035.15 .131.25 E 736.46 6225.00 16.27 163.57 6,121.55 748.99 S 138.32 E 761.57 0.10 6315.00 15.85 162.85 6,208.04 772.83 S 145.51 E 786.36 0.52

795.22 S

817:30 S

839.32 S

860.91 S

872.71 S

886.95 S

6.293.89

6,380.82

6,468.77

6,555.83

6,603.25

6,661.38

809.69

832.79

855.91

878.52

890.81

905.61

1.28

0.88

1.15

0.01

0.75

0.80

152.51 E

159.90 E

167.72 E

175.04 E

178.71 E

183.02 E

### SURVEY FOOTER

6404.00

6494.00

6585.00

6724.00

6784.00

6675.00

SURVEYS CALCULATED USING SHORT COLLAR METHOD.

Spercy Drilling

HALLIBURTON

WELL ASSUMED VERTICAL AT WELLHEAD.

14.72

15.27

14.48

14.87

14.35

14:35,

SURVEYS FROM 144'MD TO 2888'MD PROVIDED BY EXTREME DIRECTIONAL.

SURVEYS FROM 3118'MD TO 6724' MD PROVIDED BY SPERRY DRILLING.

162.40

160.65

160.19

. 162.34

163.16

163:16

SURVEY AT 6724' MD IS PROJECTED TO TD AT 6784' MD.

SPERRY DRILLING ENGINEERS: B. MACHACEK, M. BARAJAS

### **DIRECTIONAL SURVEY DATA NOTES**

- Calculation based on minimum curvature method.
- Survey coordinates relative to well system reference point.
- TVD values given relative to drilling measurement point.
- Vertical section relative to well head.
- Vertical section is computed along a direction of 168.71 degrees (Grid)
- A total correction of 7.69 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 6,784.00 feet is 905.63 feet along 168.34 degrees (Grid)

## HALLIBURTON Sperry Drilling

WARRANT

HALLIBURTON ENERGY SERVICES, INC. WILL USE ITS BEST EFFORTS TO FURNISH CUSTOMERS WITH ACCURATE INFORMATION AND INTERPRETATIONS THAT ARE PART OF, AND INCIDENT TO, THE SERVICES PROVIDED. HOWEVER, HALLIBURTON ENERGY SERVICES, INC. CANNOT AND DOES NOT WARRANT THE ACCURACY OR CORRECTNESS OF SUCH INFORMATION AND INTERPRETATIONS. UNDER NO CIRCUMSTANCES SHOULD ANY SUCH INFORMATION OR INTERPRETATION BE RELIED UPON AS THE SOLE BASIS FOR ANY DRILLING, COMPLETION, PRODUCTION, OR FINANCIAL DECISION OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING VENTURE, DRILLING RIG OR ITS CREW OR ANY THIRD PARTY. THE CUSTOMER HAS FULL RESPONSIBILITY FOR ALL DRILLING, COMPLETION, AND PRODUCTION OPERATION. HALLIBURTON ENERGY SERVICES, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE SERVICES RENDERED. IN NO EVENT WILL HALLIBURTON ENERGY SERVICES, INC. SERVICES BE LIABLE FOR FAILURE TO OBTAIN ANY PARTICULAR RESULTS OR FOR ANY DAMAGES, INCLUDING, BUT NOT LIMITED TO, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OF ANY INFORMATION OR INTERPRETATION PROVIDED BY HALLIBURTON ENERGY SERVICES, INC.



Halliburton/Sperry Drilling 3950 Interwood S. Pkwy Houston, Texas 77032 Phone 281.986.4400 Fax 281.986.4498 | <u>Digital |</u>
| LEGAN Franch Dr., Hobba, NAI 887-40
| Floor: (572) 393-6161 Fax: (573) 393-0720
| <u>Digital B.</u>
| ST F Fax St., Armila, NAI 48210
| Phone: (573) 748-1283 Fax: (573) 748-9720
| <u>Phone: (573) 748-1285 Fax: (573) 748-9720</u>
| <u>Digital B.</u>
| 1000 Rico Bassan Read, Artic, NAI 87410
| <u>Phone: (503) 334-6173 Fax: (503) 334-6170</u>
| <u>Digital B.</u>
| LEGAN ST. Francis Dr., Stain Fe NAI 67503
| <u>Phone: (503) 476-3440 Fax: (503) 476-3462</u>

### -State of New Mexico-

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102

Revised August 1, 2011

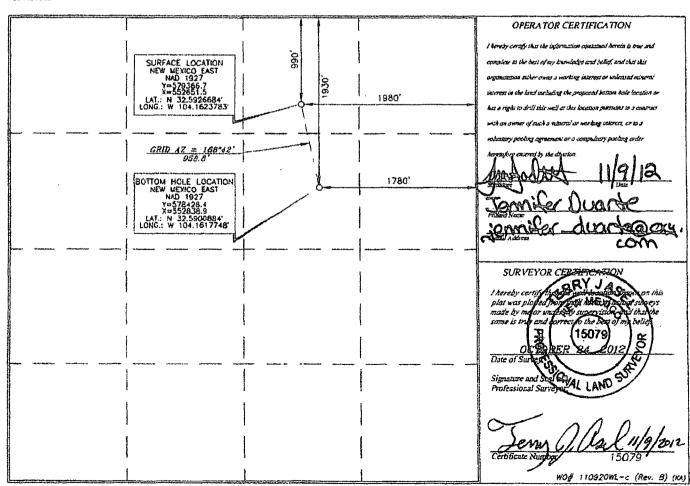
Submit one copy to appropriate

District Office

☐ AMENDED REPORT

|               |  |         | И                          | ELL L    | JOCA I                              | rioi   | N ANE         |               |                               | EDICATIO             |               |         |                  |        |
|---------------|--|---------|----------------------------|----------|-------------------------------------|--------|---------------|---------------|-------------------------------|----------------------|---------------|---------|------------------|--------|
| API Number    |  |         |                            | 0        | 48                                  | ool Co | 55            | $\mathcal{C}$ | Old Millman Banch-Bone Spring |                      |               |         |                  |        |
| Property Code |  |         |                            |          | Property Name GOVERNMENT AB FEDERAL |        |               |               |                               |                      |               | и       | ell Nimber<br>12 |        |
| 1920          | 16   | 3       | Operator Name OXY USA INC. |          |                                     |        |               |               |                               | Elevation<br>3291.3' |               |         |                  |        |
|               | Surface Location                               |         |                            |          |                                     |        |               |               |                               |                      |               |         |                  |        |
| UL or lot no. | Section  | Tow     | mship                      | T        | Rang                                | c      |               | Lot Idn       | Feet from the                 | North South line     | Feet from the | East We | st line          | County |
| B             | 10   | 20 S    | SOUTH                      | 28       | EAST,                               | N. M.  | P.M           |               | 990'                          | NORTH                | 1980'         | EAS     | T                | EDDY   |
|               | Bottom Hole Location If Different From Surface |         |                            |          |                                     |        |               |               |                               |                      |               |         |                  |        |
| UL or lot no. | Section  | Tew     | nship                      |          | Rang                                | E      | ************* | Let Idn       | Feet from the                 | North South line     | Feet from the | East We | st line          | County |
| G             | 10   | 20 S    | SOUTH                      | 28       | EAST,                               | N M.   | P. M.         |               | 1930'                         | NORTH                | 1780'         | EAS     | T                | EDDY   |
| Dodina        | , 2  | Joint o | er Infill                  | Consolid | letion Code                         | 7      | Order No.     |               |                               |                      |               |         |                  |        |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



### Operator Copy

| Form 3160-3  | to the same of the |  | FORM                               | APPROVED                           |  |  |
|--|--|--|------------------------------------|------------------------------------|--|--|
| (March 2012)   | OMB No. 1004-0137<br>Expires October 31, 2014  |  |                                    |                                    |  |  |
| UNITED STATES<br>DEPARTMENT OF THE I   | 5. Lease Serial No.  |  |                                    |                                    |  |  |
| BUREAU OF LAND MAN   | NM-15003   |  |                                    |                                    |  |  |
| APPLICATION FOR PERMIT TO  |  | 6. If Indian, Allotee or Tribe Name                  |                                    |                                    |  |  |
| la. Type of work: DRILL REENTE   | Type of work: DRILL REENTER  |  |                                    |                                    |  |  |
| lb. Type of Well: Oil Well Gas Well Other  | de Zone  | 8. Lease Name and Well No. GOVERNMENT AB FEDERAL #12 |                                    |                                    |  |  |
| 2 Name of Operator OXY USA WTP Limited Partnership   |  |  | 9. API Well No.                    |                                    |  |  |
| 3a. Address P.O. BOX 4294  | 3b. Phone No. (include area code)  |  | 10. Field and Pool, or Exploratory |                                    |  |  |
| HOUSTON, TX 77210  | 713-513-6640   |  | Old Millman Ranch - Bone Spring    |                                    |  |  |
| 4. Location of Well (Report location clearly and in accordance with an   | y State requirements.*)  |  | 11. Sec., T. R. M. or B            |                                    |  |  |
| At surface 990' FNL & 1980' FEL  |  |  | B, SEC 10, T20S, R28E              |                                    |  |  |
| At proposed prod. zone 1930' FNL & 1780' FEL   |  |  |                                    |                                    |  |  |
| 14. Distance in miles and direction from nearest town or post office* 12 Miles Northeast of Carlsbad, N.M.   |  | 12. County or Parish<br>EDDY                         | 13. State<br>NM                    |                                    |  |  |
| 15. Distance from proposed* 990'.  | 16. No. of acres in lease  | 17. Spacing  | cing Unit dedicated to this well   |                                    |  |  |
| location to nearest<br>property or lease line, ft.<br>(Also to nearest drig, unit line, if any)  | 1720   | 40   |                                    |                                    |  |  |
| 18. Distance from proposed location*   | 19. Proposed Depth   | 20. BLM/E  | LM/BIA Bond No. on file<br>136     |                                    |  |  |
| to nearest well, drilling, completed, 1190.5' applied for, on this lease, ft.  | 6700' TYD  | ES0136   |                                    |                                    |  |  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)  | 22. Approximate date work will sta   | rt*  | 23. Estimated duration             |                                    |  |  |
| 3288.8' GL DAMAtor'S MARONAID L'AM   | 05/13/2012   |  | 10 DAYS                            |                                    |  |  |
| 24. Attachments  |  |  |                                    |                                    |  |  |
| The following, completed in accordance with the requirements of Onshor   | re Oil and Gas Order No.1, must be a   | tteched to thi                                       | s form:                            |                                    |  |  |
| Well plat certified by a registered surveyor.  | I 4. Rond to cover t   | he aneratio  | ns unless covered by an            | existing bond on file (see         |  |  |
| 2. A Drilling Plan.  | Item 20 above).  | opulation  |                                    | . 0.12011.08 0.1111 0.11 1.10 (300 |  |  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).  5. Operator certification  6. Such other site specific information and/or plans as may be required by the BLM. |  |  |                                    |                                    |  |  |
| 25. Signature  | Name (Printed Typed)   |  |                                    | Date                               |  |  |
| Title MM Jack Hotel  | JENNIFER DUARTE (je  | JENNIFER DUARTE (jennifer_duarte@oxy.com)            |                                    |                                    |  |  |
| REGULATORY ANALYST . A   |  |  |                                    | ,                                  |  |  |
| Approved by (Signature)  | Name (Printed/Typed)   |  |                                    | Date / 3//5                        |  |  |
| Title Of FIELD MANAGER   | Office CA  | Office CARLSBAD FIELD OFFICE                         |                                    |                                    |  |  |
| Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to   |  |  |                                    |                                    |  |  |
| conduct operations thereon. Conditions of approval, if any, are attached.  | AP   | PROV   | AL FOR TWO                         | ) YEARS                            |  |  |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as   | rime for any person knowingly and<br>to any matter within its jurisdiction   | willfully to n                                       | nake to any department             | or agency of the United            |  |  |

(Continued on page 2)

\*(Instructions on page 2)

Capitan Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached United States Department of the Interior Bureau of Land Management Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220

Attention: Jennifer Duarte

RE: Government AB Federal #12

Section 10, 20S-28E Eddy County, New Mexico

### STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

**OPERATOR NAME:** 

OXY USA WTP Limited Partnership

**ADDRESS:** 

P.O. Box 4294 Houston, Texas 77210-4294

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

**LEASE NO.:** 

NM-15003

LEGAL DESCRIPTION:

SL: 1930' FNL & 1780' FEL SWNE (G)

PBHL: 1930' FNL & 1780' FEL SWNE (G)

Section 10 T20S-R28E Eddy County, New Mexico

**FORMATIONS:** 

Bone Springs

**BOND COVERAGE:** 

Nationwide

BLM BOND FILE NO.:

**ES** 0136

OXY USA, WIFP Limited Partnership

**AUTHORIZED SIGNATURE:** 

Michael Meir

TITLE:

Land Negotiator

DATE:

April 25, 2012



# OXY PERMIAN DRILLING DRILLING PROCEDURE GOVERNMENT AB 12 3-STRING WELL

| SDP No:        | 1        |
|----------------|----------|
| Revision No:   | 00       |
| Revision Date: | 03/13/13 |
| Page No:       | 1 of 33  |

| Drilling Engineer:               | 19 kg/m           | 3/13/13             |
|----------------------------------|-------------------|---------------------|
|                                  | Anthony-Tschacher | Date                |
| Drilling Superintendent:         | Roger Allen       | 3 - 15 - 13<br>Date |
| Drilling Engineering Supervisor: | Mille             | 02/15/2013          |
| orming engineering dapervisor.   | Sebastian Millan  | 2/1 m/              |
| Drilling Manager:                | Douglas Chester   | 2/13 /2013<br>Date  |