

30-021-20519

OXY USA INC

## Operation Summary Report

Well: BRAVO DOME UNIT 2132 031G

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 7/18/2011

End Date: 7/22/2011

Rig Name: TRINIDAD 216

| # | Date       | Time<br>Start-End | Hrs  | Op Details                                                                                                                                                                                                                                                                                                                                           |
|---|------------|-------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | 07/18/2011 | 06:00 - 12:00     | 6.00 | RIGGING DOWN & MOVING TO BDU # 2132 031 G<br><br>CALLED & NOTIFIED ED MARTIN @ NMOC D OF RIG MOVE & INTENT TO SPUD THE "BDU # 2132 031 G"<br>@ 9:00 AM<br><br>RIG MOVE WAS SLOWER THAN USUAL DUE TO TRINIDAD MOVING BOTH #208 & #216 TODAY & 1<br>TANDEM BROKE DOWN EARLY. RIG MOVE STILL WENT PRETTY GOOD.<br><br>SAFETY BREAK: MOVING & RIGGING UP |
|   |            | 12:00 - 16:00     | 4.00 | MOVING IN & RIGGING UP ON NEW LOCATION, RIG IS 75% ON LOCATION<br><br>SAFETY BREAK: MOVING & RIGGING UP                                                                                                                                                                                                                                              |
|   |            | 16:00 - 20:00     | 4.00 | RIGGING UP ON NEW LOCATION, SUB-STRUCTURE SET @ 5:00 PM, DERRICK RAISED @ 7:00 PM,<br>SAFETY BREAK & CONTINUED RIGGING UP TO SPUD                                                                                                                                                                                                                    |
|   |            | 20:00 - 00:00     | 4.00 | RIGGING UP & PREPARING TO SPUD, MIX SPUD MUD. PERFORM RIG INSPECTION & ACCEPT RIG ON<br>DAY WORK @ 12:00 MIDNIGHT.                                                                                                                                                                                                                                   |
| 2 | 07/19/2011 | 00:00 - 01:30     | 1.50 | RIGGING UP & PREPARING TO SPUD, MIX SPUD MUD. PERFORM RIG INSPECTION & ACCEPT RIG ON<br>DAY WORK @ 12:00 MIDNIGHT.                                                                                                                                                                                                                                   |
|   |            | 01:30 - 06:00     | 4.50 | SPUDDING 12 1/4" HOLE @ 01:30 HOURS 7/19/2011<br>DRILLED FROM: 0' TO 300' @ 66.67 FT / HR.<br><br>ROTARY - 125 RPM<br>WT. ON BIT - 5 - 15 K<br>GPM - 400<br>PUMP PRES. - 900 PSI<br><br>SAFETY BREAK: PICKING UP & HANDLING BHA & DRILL COLLARS                                                                                                      |
|   |            | 06:00 - 10:00     | 4.00 | DRILLED FROM: 300' TO 500' - 200' @ 50 FT / HR.<br><br>ROTARY - 125 RPM<br>WT. ON BIT - 15 - 35 K<br>GPM - 380<br>PUMP PRES. - 900 PSI<br><br>SAFETY BREAK: HOUSE KEEPING                                                                                                                                                                            |
|   |            | 10:00 - 14:00     | 4.00 | DRILLED FROM: 500' TO 806' - 306' @ 76.5 FT/HR.<br><br>ROTARY - 125 RPM<br>WT. ON BIT - 15 - 35 K<br>GPM - 380<br>PUMP PRES. - 1000 PSI<br><br>TD SURFACE HOLE @ 2:00 PM @ 806' (20' RATHOLE) (8 5/8" SURFACE CSG. WILL BE SET @ 786'<br>MD.)<br><br>12 1/4" SURFACE HOLE DRILLED TO 806' in 11 1/2 ROTATING HRS. = 70.08 FT/HR AVERAGE ROP          |
|   |            | 14:00 - 15:00     | 1.00 | CIRCULATE & CONDITION HOLE FOR 8 5/8" CSG.                                                                                                                                                                                                                                                                                                           |
|   |            | 15:00 - 17:00     | 2.00 | CIRC. WHILE MAKING REPAIRS TO HYDRAULIC SYSTEM IN PIPE HANDLER                                                                                                                                                                                                                                                                                       |
|   |            | 17:00 - 18:00     | 1.00 | TRIP OUT OF HOLE TO RUN 8 5/8" CASING                                                                                                                                                                                                                                                                                                                |
|   |            | 18:00 - 19:00     | 1.00 | RIG UP TO RUN 8 5/8" SURFACE CASING                                                                                                                                                                                                                                                                                                                  |
|   |            | 19:00 - 21:00     | 2.00 | PJSM - RUNNING SURFACE CASING<br><br>RUN 8 5/8" SURFACE CASING AS FOLLOWS:<br><br>- TX PATTERN SHOE<br>- 1 SHOE JOINT WITH INSERT FLOAT<br>- 18 JOINTS OF 8 5/8" 24# J-55 STC<br><br>SET AT 781'                                                                                                                                                     |
|   |            | 21:00 - 21:30     | 0.50 | CIRC & COND HOLE FOR CEMENT & RIG DOWN CRT. & RIG UP HALCO                                                                                                                                                                                                                                                                                           |

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| # | Date       | Time<br>Start-End | Hrs  | Op Details                                                                                                                                                                                                                                                                                                                                                                                          |
|---|------------|-------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |            | 21:30 - 23:30     | 2.00 | PJSM - TEST LINES TO 2,500 PSI CEMENT AS FOLLOWS:<br><br>PUMP 500 SACKS OF LEAD, MIXED TO 14.8PPG, 1.35 YELD AT 6.5BPM WITH 200' PSI<br>DROPPED PLUG @ 22:30; DISPLACED CEMENT WITH 46.4 BBLS FRESH WATER USING<br>HALLIBURTON PUMP TRUCK AT 6 BPM WITH 277 PSI FINAL DISPLACEMENT PRESSURE<br>BUMP PLUG @ 23:00 WITH 535 PSI. HELD PRESSURE FOR 5 MINUTES. FLOAT HELD. CIRCULATE 37<br>BBLS TO PIT |
|   |            | 23:30 - 00:00     | 0.50 | W O C - CLEAN PITS. CLEAN & STRAIGHTEN UP LOCATION - SAFETY MEETING TOPIC - WORKING ON<br>HIGH PRESURE HOSES.                                                                                                                                                                                                                                                                                       |
| 3 | 07/20/2011 | 00:00 - 03:30     | 3.50 | W O C - CLEAN PITS. CLEAN & STRAIGHTEN UP LOCATION - SAFETY MEETING TOPIC - WORKING ON<br>HIGH PRESURE HOSES.                                                                                                                                                                                                                                                                                       |
|   |            | 03:30 - 06:00     | 2.50 | PJSM - BACK OUT LANDING JOINT - SCREW ON WELL HEAD & DRILLING FLANGE. N/U BOP &<br>FLOWLINE TO BELL NIPPLE                                                                                                                                                                                                                                                                                          |
|   |            | 06:00 - 07:00     | 1.00 | FINISH N/U BOP & WELL HEAD VALVES                                                                                                                                                                                                                                                                                                                                                                   |
|   |            | 07:00 - 07:30     | 0.50 | TEST BOP TO 1,000 PSI, GOOD TEST                                                                                                                                                                                                                                                                                                                                                                    |
|   |            | 07:30 - 09:00     | 1.50 | NIPPLE UP DRILLING NIPPLE AND FLOW LINE                                                                                                                                                                                                                                                                                                                                                             |
|   |            | 09:00 - 10:00     | 1.00 | MAKE 7 7/8" BIT & BHA & T I H & TAG CEMENT @ 730'                                                                                                                                                                                                                                                                                                                                                   |
|   |            | 10:00 - 11:00     | 1.00 | DRILL CEMENT & FLOAT EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                      |
|   |            | 11:00 - 15:00     | 4.00 | DRILLING AHEAD IN NEW FORMATION<br><br>DRILLING AHEAD FROM 806' TO 1,200'<br><br>ROTARY - 85-100 RPM<br>WT. ON BIT - 20-25 K<br>GPM - 400<br>PUMP PRES. - 1100 PSI<br><br>SAFETY BREAK: MAKING CONNECTIONS                                                                                                                                                                                          |
|   |            | 15:00 - 19:00     | 4.00 | DRILLING AHEAD FROM 1,200' TO 1,400'<br><br>ROTARY - 85-100 RPM<br>WT. ON BIT - 20-25 K<br>GPM - 400<br>PUMP PRES. - 1100 PSI<br>WIRELINE SURVEY @ 1243' = 1 DEGREE<br><br>SAFETY BREAK: RUNNING SURVEY                                                                                                                                                                                             |
|   |            | 19:00 - 23:00     | 4.00 | DRILLING AHEAD FROM 1,400' TO 1,700'<br><br>ROTARY - 85-100 RPM<br>WT. ON BIT - 20-25 K<br>GPM - 400<br>PUMP PRES. - 1100 PSI<br><br>SAFETY BREAK: WORKING IN BAD WEATHER                                                                                                                                                                                                                           |
|   |            | 23:00 - 00:00     | 1.00 | DRILLING AHEAD FROM 1,700' TO 1,800'<br><br>ROTARY - 85-100 RPM<br>WT. ON BIT - 20-25 K<br>GPM - 400<br>PUMP PRES. - 1100 PSI<br>WIRELINE SURVEY @ 1743' = 11/2 DEGREE<br><br>SAFETY BREAK: WORKING ON MUD PUMPS                                                                                                                                                                                    |

4 07/21/2011 00:00 - 03:00 3.00 ELECTRICAL CONTROL MODULE FAILURE, 3 HRS NPT

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|---|------|-------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |      | 03:00 - 06:00     | 3.00 | DRILLING AHEAD FROM 1800' TO 1900"<br><br>ROTARY - 85-100 RPM<br>WT. ON BIT - 20-25 K<br>GPM - 400<br>PUMP PRES. - 1100 PSI<br><br>SAFETY BREAK: MIXING CAUSTIC SODA                                                                                                                                                                                                                                                              |
|   |      | 06:00 - 10:00     | 4.00 | DRILLING AHEAD FROM 1900' TO 2,080' 180' @ 45 FT/HR.<br><br>ROTARY - 85-100 RPM<br>WT. ON BIT - 20-25 K<br>GPM - 400<br>PUMP PRES. - 1100 PSI<br><br>SAFETY BREAK: MIXING CAUSTIC SODA                                                                                                                                                                                                                                            |
|   |      | 10:00 - 11:00     | 1.00 | DRILLING AHEAD FROM 2,080' TO 2,115' 35' @ 35 FT/HR.<br><br>TOP OF CIMARRON @ 2,115', 19' @ 19 FT/HR. (19 FT. THICK AS PER PROG & ACTUAL DRILL TIME.)<br><br>TOP OF TUBB @ 2,135"<br><br>ROTARY - 85-100 RPM<br>WT. ON BIT - 20-25 K<br>GPM - 400<br>PUMP PRES. - 1100 PSI                                                                                                                                                        |
|   |      | 11:00 - 12:00     | 1.00 | DRILLING AHEAD FROM 2,115' TO 2,134' 19' @ 19 FT/HR.<br><br>TOP OF CIMARRON @ 2,115', 19' @ 19 FT/HR. (19 FT. THICK AS PER PROG & ACTUAL DRILLING TIME.)<br><br>TOP OF TUBB @ 2,134'<br><br>ROTARY - 85-100 RPM<br>WT. ON BIT - 20-25 K<br>GPM - 400<br>PUMP PRES. - 1100 PSI                                                                                                                                                     |
|   |      | 12:00 - 16:30     | 4.50 | DRILLING AHEAD FROM 2,134' TO 2,304' 170' @ 39 FT/HR.<br><br>TOP OF CIMARRON @ 2,115', 19' @ 19 FT/HR. (19 FT. THICK AS PER PROG & ACTUAL DRILLING TIME.)<br><br>TOP OF TUBB @ 2,134'<br><br>ROTARY - 85-100 RPM<br>WT. ON BIT - 20-25 K<br>GPM - 400<br>PUMP PRES. - 1100 PSI<br><br>TD WELLBORE @ 2,304' (160' INTO THE TUBB + 10' RATHOLE) TD @ 4:30 PM<br><br>TOTAL ROTATING HRS. THIS WELL - 33 HOURS. AVERAGED 69.89 FT/HR. |
|   |      | 16:30 - 17:30     | 1.00 | PJSM - CIRC. & COND. HOLE FOR CASING JOB                                                                                                                                                                                                                                                                                                                                                                                          |
|   |      | 17:30 - 20:00     | 2.50 | PJSM - DROP TOTCO, T O H & LDDP & BHA                                                                                                                                                                                                                                                                                                                                                                                             |
|   |      | 20:00 - 21:00     | 1.00 | RIG UP CRT & TOOLS TO RUN 5 1/2" PROD. CASING - PJSM w/ALL PERSONELL                                                                                                                                                                                                                                                                                                                                                              |
|   |      | 21:00 - 00:00     | 3.00 | RUN 5 1/2" PROD. CSG. AS FOLLOWS:<br><br>1 - FLOAT SHOE - 1.00 - 2,302.00' - 2,301.00'<br>1 - 5 1/2, 15.5# SHOE JT. 10.00 - 2,301.00' - 2,291.00'<br>4 - JTS. 5 1/2", 15.5# CSG. JTS. - 165.98 - 2,291.00' - 2,125.02'<br>73 - JTS. FIBER GLASS 5 1/2" - 2,112.80 - 2,125.02 - 12.22'<br>1 - LANDING JT. 5 1/2", 15.5# - 17.16 - 12.22 - - 5.00' - (STICK UP)                                                                     |

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|---|------------|-------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | 07/22/2011 | 00:00 - 04:30     | 4.50 | RUN 5 1/2" PROD. CSG. AS FOLLOWS:<br><br>1 - FLOAT SHOE - 1.00 - 2,302.00' - 2,301.00'<br>1 - 5 1/2, 15.5# SHOE JT. 10.00 - 2,301.00' - 2,291.00'<br>4 - JTS. 5 1/2", 15.5# CSG. JTS. - 165.98 - 2,291.00' - 2,125.02'<br>73 - JTS. FIBER GLASS 5 1/2" - 2,112.80 - 2,125.02 - 12.22'<br>1 - LANDING JT. 51/2", 15.5# - 17.16 - 12.22 - - 5.00' - (STICK UP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|   |            | 04:30 - 07:00     | 2.50 | CIRC. & WASHING CASING TO BOTTOM. (CASING IS 12' FROM BOTTOM @ REPORT TIME.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|   |            | 07:00 - 08:00     | 1.00 | CIRC & COND. HOLE FOR CEMENTING / RIG DOWN CRT TOOLS & RIG UP HALCO SERVICES & HOLD SAFETY & OPS MEETING.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|   |            | 08:00 - 09:00     | 1.00 | CEMENT 5 1/2" CASING AS FOLLOWS:<br><br>PRESSURE TEST LINES TO 2500 PSI<br>PUMPED 20 BBL FRESH WATER SPACER<br><br>LEAD CEMENT:<br>- 11.1 PPG PREMIUM PLUS WITH 2% CACL, 350 SACKS<br>- 0.25 LBM/SACK POL E FLAKE<br>- YIELD: 3.25 CUFT/SACK<br>- SLURRY VOLUME: 170 BBL'S<br>- PUMP RATE: 6 BBL/MIN<br>- CASING PRESSURE: 187 PSI<br><br>TAIL CEMENT:<br>- 13.2 PPG PREMIUM PLUS CEMENT WITH 2% CC, 150 SACKS<br>- SLURRY VOLUME: 50 BBL'S<br>- 0.25 LBM/SACK POL E FLAKE<br>- YIELD: 1.85 CUFT/SACK<br>- PUMP RATE: 6 BBL/MIN<br>- CASING PRESSURE: 120 PSI<br><br>DISPLACE WITH 50.6 BBL OF FRESH WATER<br>- PUMP RATE: 6.5 BBL/MIN<br>- CASING PRESSURE: 495 PSI<br><br>- BUMPED PLUG AT 1 BBL/MIN AT 1000 PSI @ 9:00 AM 7/22/2011<br>- CIRCULATED 104 BBL'S OF CEMENT TO SURFACE (180 sx)<br><br>FLOAT HELD - RIGGED DOWN HALCO |
|   |            | 09:00 - 13:00     | 4.00 | CHAINED DOWN @ CEMENTING HEAD & W O C - 4 HOURS<br><br>RIG DOWN RIG, CLEAN STEEL PITS, PREPARE RIG FOR RIG MOVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|   |            | 13:00 - 18:00     | 5.00 | RELEASE & RIG DOWN HALCO CMT. HEAD, BACK OUT LANDING JT., N/D BOP, RIG DOWN RIG & PREPARE FOR RIG MOVE. RIG RELEASED @ 6:00 PM 7/22/11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |