

OXY USA INC

Operation Summary Report

Well: BRAVO DOME UNIT 2033 062G

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 8/9/2011

End Date: 8/13/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
1	08/09/2011	05:00 - 07:30	2.50	PJSM: RIG CREW, TRINIDAD TRUCKING, DOUBLE T, RAY'S, STALLION, DOUBLE H, RM, NIGHT DSM, DAY DSM. DISCUSSED OUR MOVE TO THE 2033_062G. ALSO STAYING HYDRATED. RIG WAS 100% OFF LOCATION BY 10:00
		07:30 - 12:30	5.00	LOWER DERRICK AND DISCONNECT LINES FROM HPU. RIG 100% ON LOCATION 11:00 HOURS. DERRICK IN THE AIR @ 11:30 RIG SPOTTED 12:15 HOURS. RU OXY OFFICE, RU BACK YARD, GENERAL RU, MAINT & HOUSEKEEPING SAFETY BREAK: DISCUSSED WORKING TOGETHER AS A TEAM AT ALL TIMES AND WATCHING OUT FOR ONE ANOTHER. NOTIFIED ED MARTIN WITH THE NMOCD OF INTENT TO SPUD AND RUN CASING/CEMENT
		12:30 - 15:00	2.50	CONDUCTED PRE SPUD MEETING WITH RIG CREW AND TOOL PUSHER. LAST TRUCK LEFT 12:30 HRS. MIX SPUD MUD, STRAP & CALIPER BHA, MU DC & BIT PERFORMED PRE-SPUD INSPECTION AND ACCEPTED THE RIG @ 13:30 HOURS.
		15:00 - 19:00	4.00	SPUDED 12 1/4" HOLE @ 15:00 HOURS DRILLED 12 1/4" HOLE FROM 0 TO 302'; ROP = 75.5' FPH DROP SOAP STICK EVERY CONNECTION AND 1 SWEEP STICK EVERY THIRD CONNECTION CIRCULATE THROUGH STEEL PITS WOB = 15 KLBS ROTARY = 120 RPM PUMP RATE = 340 GPM (60 SPM) PUMP PRESSURE = 755 PSI MW = 8.8; VIS = 42
		19:00 - 00:00	5.00	DRILLED 12 1/4" HOLE FROM 302' TO 605'; ROP = 61' FPH DROP SOAP STICK EVERY CONNECTION AND 1 SWEEP STICK EVERY THIRD CONNECTION CIRCULATE THROUGH RESERVES WOB = 20 KLBS ROTARY = 130 RPM PUMP RATE = 340 GPM (60 SPM) PUMP PRESSURE = 880 PSI MW = 8.8; VIS = 42
2	08/10/2011	00:00 - 03:30	3.50	DRILLED 12 1/4" HOLE FROM 605' TO 800'; ROP = 56' FPH DROP SOAP STICK EVERY CONNECTION AND 1 SWEEP STICK EVERY THIRD CONNECTION CIRCULATE THROUGH RESERVES WOB = 20 KLBS ROTARY = 130 RPM PUMP RATE = 340 GPM (60 SPM) PUMP PRESSURE = 880 PSI MW = 9.1; VIS = 30
		03:30 - 04:00	0.50	CIRCULATE CONDITION HOLE FOR CASING RUN
		04:00 - 07:00	3.00	DROP TOTCO AND TOOH TO RUN 8.625" CASING
		07:00 - 07:30	0.50	PJSM WITH RIG CREW, RIG UP CRT, AND MAKE UP TX. PATTERN SHOE,
		07:30 - 09:30	2.00	RUN 18 JTS: 8.5/8", 24#, J-55, ST & C, SURFACE CASING: 1 - 8 5/8" TEXAS PATTERN SHOE 1 - SHOE JOINT 1 - INSERT FLOAT 17 - JOINTS
		09:30 - 10:00	0.50	PJSM WITH HALLIBURTON AND RIG CREW. RIG CMT HEAD AND CIRCULATE 2X BOTTOMS UP

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		10:00 - 11:00	1.00	PUMP A 20 BBL FRESH WATER SPACER - PUMP RATE = 5 BBL/MIN PUMPED 120.2 BBLS (500 SACKS) OF 14.8 PPG PREMIUM PLUS CEMENT - 2% CaCl ₂ - 0.25 lbm/sk Poly-E-Flake - YIELD: 1.35 CUFT/SACK - PUMP RATE = 7 BBL/MIN - PRESSURE = 200 PSI DISPLACED WITH 47 BBLS OF FRESH WATER - PUMP RATE = 6 BBL/MIN - PRESSURE = 240 PSI - FINAL @ 2BPM = 240 PSI DID NOT BUMP PLUG. GOT BACK 1 BBL TO TRUCK FLOATS HELD. FULL RETURNS THROUGHOUT JOB GOT BACK 60 BBL (249.5 SKS) TO SURFACE
		11:00 - 15:00	4.00	HELD PJSM AND RIG DOWN HALLIBURTON. WOC, JET CELLAR, CLEAN PITS. MUD UP PREMIX FOR VISCOUS SWEEPS AFTER DRILLING OUR FLOAT COLLAR.
		15:00 - 16:00	1.00	LD LANDING JT. INSTALL WELL HEAD.
		16:00 - 17:30	1.50	NU BOPE. STRAP & CALIPER BHA #2.
		17:30 - 18:00	0.50	PU 5.5" CASING LANDING JT, MU TEST PLUG. TEST BOPE TO 250 PSI LO, 1000 PSI HIGH FOR 5 MINS.
		18:00 - 20:00	2.00	TIH W/7.875 BHA TO TOC @ 732'
		20:00 - 20:30	0.50	DRILL TO FLOAT AND PRESSURE TEST CASING TO 1000 PSI FOR 30 MINUTES. TEST GOOD. DRILL OUT FLOAT AND CEMENT
		20:30 - 00:00	3.50	DRILL 7 7/8" PRODUCTION HOLE F 800' TO 1063' AVG 75' FPH 75 RPM, 30K WOB, 340 GPM, 1140 PUMP PRESS CIRC OUTER RESERVE, PUMP HI VIS SWEEP EVERY 3RD JT OR AS NECESSARY. DROP SWEEP STICKS EVERY 3RD JT ON CONNECTIONS BEFORE SWEEPS MW 8.7 PPG SAFETY BREAK: DISCUSSED MIXING MUD AND CHEMICALS; INCLIMENT WEATHER
3	08/11/2011	00:00 - 04:00	4.00	DRILL 7 7/8" PRODUCTION HOLE F 1063' TO 1366' AVG 76' FPH 75 RPM, 30K WOB, 340 GPM, 985 PUMP PRESS. SURVEY @ 1299 = 1.0 CIRC STEEL PITS, PUMP HI VIS SWEEP EVERY 3RD JT OR AS NECESSARY. DROP SWEEP STICKS EVERY 3RD JT ON CONNECTIONS BEFORE SWEEPS. MW 8.7 PPG, VIS 43
		04:00 - 08:00	4.00	DRILL 7 7/8" PRODUCTION HOLE F 1366' TO 1692', CUT 326', AVG 82 FPH 75 RPM, 30K WOB, 340 GPM, 985 PUMP PRESS. CIRC STEEL PITS, SWITCH TO RESERVE AT 1600', BEGIN PIT CLEAN OUT, PUMP HI VIS SWEEP EVERY 3RD JT OR AS NECESSARY. DROP SWEEP STICKS EVERY 3RD JT ON CONNECTIONS BEFORE SWEEPS. MW 8.7 PPG, VIS 43
		08:00 - 12:00	4.00	DRILL 7 7/8" PRODUCTION HOLE F 1692' TO 1841', CUT 149', AVG 38 FPH 75 RPM, 38K WOB, 340 GPM, 1050 PUMP PRESS. CIRC RESERVE, FINISH PIT CLEAN OUT, PUMP HI VIS SWEEP EVERY 3RD JT OR AS NECESSARY. DROP SWEEP STICKS EVERY 3RD JT ON CONNECTIONS BEFORE SWEEPS. MW 8.9 PPG, VIS 32 SURVEY 2 DEG AT 1791' SAFETY BREAK: REVIEW GENERAL SAFETY GUIDELINES, MEET & GREET, MUD SPILLS.
		12:00 - 16:00	4.00	DRILL 7 7/8" PRODUCTION HOLE F 1841' TO 2016', CUT 175', AVG 44 FPH 75 RPM, 38K WOB, 340 GPM, 1050 PUMP PRESS. CIRC STEEL PITS, PUMP HI VIS SWEEP EVERY 3RD JT OR AS NECESSARY. DROP SWEEP STICKS EVERY 3RD JT ON CONNECTIONS BEFORE SWEEPS. MW 8.9 PPG, VIS 32 SURVEY 2 DEG AT 1791' SAFETY BREAK: JSA MIXING CHEMICALS; KUDOS ON HOUSEKEEPING, MUD SPILLS

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		16:00 - 17:00	1.00	DRILL 7 7/8" PRODUCTION HOLE F 2016' TO 2064', CUT 48', AVG 48 FPH 75 RPM, 38K WOB, 340 GPM, 1050 PUMP PRESS. CIRC STEEL PITS, PUMP HI VIS SWEEP EVERY 3RD JT OR AS NECESSARY. DROP SWEEP STICKS EVERY 3RD JT ON CONNECTIONS BEFORE SWEEPS. MW 8.9 PPG, VIS 32 SURVEY 2 DEG AT 1791'
		17:00 - 17:30	0.50	SERVICE RIG, GO THRU PUMP VALVES
		17:30 - 21:30	4.00	DRILL 7 7/8" PRODUCTION HOLE F 2064' TO 2302', CUT 238', AVG 59' FPH 75 RPM, 38K WOB, 340 GPM, 1050 PUMP PRESS. CIRC STEEL PITS, PUMP HI VIS SWEEP EVERY 3RD JT OR AS NECESSARY. DROP SWEEP STICKS EVERY 3RD JT ON CONNECTIONS BEFORE SWEEPS. MW 9.0 PPG, VIS 40 SAFETY BREAK: JSA DRILLING, MAKING CONNECTIONS, HAND PLACEMENT.
		21:30 - 00:00	2.50	DRILL 7 7/8" PRODUCTION HOLE F 2302' TO 2360', CUT 58', AVG 24 FPH 75 RPM, 38K WOB, 340 GPM, 1150 PUMP PRESS. CIRC STEEL PITS, PUMP HI VIS SWEEP EVERY 3RD JT OR AS NECESSARY. DROP SWEEP STICKS EVERY 3RD JT ON CONNECTIONS BEFORE SWEEPS. MW 9.2 PPG, VIS 42 SURVEY 0.25 DEG AT 2276' CIMARRON TOP - 2353' SAFETY BREAK: JSA TRIPPING PIPE, MIXING CHEMICALS.
4	08/12/2011	00:00 - 04:00	4.00	DRILL 7 7/8" PRODUCTION HOLE F 2360' TO 2551', CUT 191', AVG 48' FPH 75 RPM, 38K WOB, 340 GPM, 1150 PUMP PRESS. CIRC STEEL PITS, PUMP HI VIS SWEEP EVERY 3RD JT OR AS NECESSARY. DROP SWEEP STICKS EVERY 3RD JT ON CONNECTIONS BEFORE SWEEPS. MW 9.4 PPG, VIS 42 TUB TOP @ 2372'
		04:00 - 05:00	1.00	DRILL 7 7/8" PRODUCTION HOLE F 2551' TO 2592', CUT 41', AVG 48' FPH 75 RPM, 38K WOB, 340 GPM, 1150 PUMP PRESS. CIRC STEEL PITS, PUMP HI VIS SWEEP EVERY 3RD JT OR AS NECESSARY. DROP SWEEP STICKS EVERY 3RD JT ON CONNECTIONS BEFORE SWEEPS. MW 9.4 PPG, VIS 42
		05:00 - 06:00	1.00	CIRCULATE TO CLEAN HOLE AND CONDITION MUD
		06:00 - 10:30	4.50	WIPER TRIP. BACK REAM & PUMP OUT ALL THE WAY TO SHOE, HOLE UNLOADING UNUSUAL LARGE AMTS OF CUTTINGS. HOLE PULLED TIGHT & PUMP PRESSURE FLUCTUATED. TTH WITH NO PROBS OR DRAG. BUILD 50 BBL HI VIS SWEEP.
		10:30 - 12:00	1.50	CIRCULATE HOLE CLEAN. PUMP 50 BBL HI VIS SWEEP. HOLE CONT TO UNLOAD CUTTINGS. HOLE CLEAN AFTER 2X BU! SAFETY BREAK: WORKING HARD, SIMOP WORKING SMART
		12:00 - 14:30	2.50	DROP TOTCO, TOH LAYING DOWN DRILL STRING. HOLE PULLED EASY FROM BOTTOM TO TOP. HOLE TOOK PROPER FILL SURVEY 1.25 DEG AT 2590'
		14:30 - 15:30	1.00	RU WEATHERFORD LOGGING. SAFETY BREAK: JSA LOGGING OPS, RIG CREW JSA WORKING ON PUMP.
		15:30 - 22:00	6.50	LOGS WENT TO BOTTOM W NO PROBS. LOGGERS DEPTH 2589' LOG RUN #1 LATEROLOG / SPECTRAL GR LOG RUN #2 DENSITY / NEUTRON / GR / CCL SIMOP: CHANGE SWABS ON PUMP, MISC PREP FOR RIG MOVE
		22:00 - 22:30	0.50	RD LOGGERS SAFETY BREAK: JSA RUNNING CASING. EMPHASIZED DROPPED CASING PRECAUTIONS.
		22:30 - 23:00	0.50	RU CRT, REMOVE ROTATING RUBBER
		23:00 - 00:00	1.00	RUN 5.5", 15.5#, J-55, LTC PROD CASING SET DEPTH GUIDE SHOE 2585' INSERT FLOAT 2572.7' SHOE JT 2584' 61 JTS CASING 2572'
5	08/13/2011	00:00 - 01:00	1.00	CONT RUN 5.5", 15.5#, J-55, LTC PROD CASING SET DEPTH GUIDE SHOE 2585' INSERT FLOAT 2572.7' SHOE JT 2584' 61 JTS CASING 2572'

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		01:00 - 01:30	0.50	DROP BALL. CIRC & COND HOLE. SIMOP: RU HALLIBURTON SAFETY BREAK: JSA CEMENTING.
		01:30 - 02:00	0.50	FINISH RU HALLIBURTON.
		02:00 - 03:00	1.00	PUMPED CEMENT JOB AS FOLLOWS 20 BBL FRESH WATER SPACER AT 5.5 BBL/MIN @ 150 PSI 460 SACKS OF PREMIUM W/2% CACL, LEAD CEMENT - 11.1 PPG - YIELD = 3.25 CU FT/SACK - .25 LBM POLY-E-FLAKE 150 SACKS OF PREMIUM W/2% CACL - 13.2 PPG - YIELD = 1.85 CU FT/SACK - .25 LBM POLY-E-FLAKE - DISPLACE WITH 61 BBLS OF FRESH WATER BUMPED PLUG @ 03:00 HRS WITH 1100 PSI RETURNED 155 SACKS (91 BBL) TO SURFACE, FLOAT HELD"
		03:00 - 06:00	3.00	R/D HALIBURTON BEGIN RD RIG, CLEAN PITS, LOAD EXCESS CASING, LOAD MUD & CHEMICALS, RELEASE RIG 06:00 HRS, 8/13/11" RIG 100% OFF LOCATION 13:00 HRS NOTIFIED NMOCD OF COMPLETION BDU 2033-062G