

30-059-20547

NO C103 FOR DRILLING
NO C103 FOR CEMENTING

OXY USA INC

Operation Summary Report

Well: BRAVO DOME UNIT 2333 031G

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 9/8/2011

End Date: 9/13/2011

Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
1	09/08/2011	12:00 - 16:00	4.00	NOTIFIED ED MARTIN @ NMOCD of RIG MOVE & INTENT TO SPUD @ 1:00 PM PJSM - MOVE & RIG UP, MIXED SPUD MUD, PERFORMED RIG INSPECTION & ACCEPTED RIG ON DAY-WORK @ 4:00 PM. HELD PRE-SPUD & SAFETY MEETING. & SPUDDED 12 1/4" HOLE @ 4:00 PM - 9/8/2011
		16:00 - 20:00	4.00	SPUDDED 12 1/4" HOLE @ 16:00 HOURS (4:00 PM) 9/8/2011 DRILLED FROM: 12' TO 250' @ 59.5' / HR. ROTARY - 125 RPM WT. ON BIT - 5 - 20 K GPM - 400 PUMP PRES. - 900 PSI SAFETY BREAK: PICKING UP & HANDLING BHA & DRILL COLLARS
		20:00 - 00:00	4.00	DRILLED FROM: 250' TO 400' @ 37.5' / HR. ROTARY - 125 RPM WT. ON BIT - 5 - 20 K GPM - 400 PUMP PRES. - 900 PSI SAFETY BREAK: GENERAL HOUSE KEEPING
2	09/09/2011	00:00 - 06:00	6.00	DRILLED FROM: 400' TO 750' @ 58.33' / HR. ROTARY - 125 RPM WT. ON BIT - 5 - 20 K GPM - 400 PUMP PRES. - 900 PSI SAFETY BREAK: MIXING CHEMICALS
		06:00 - 07:00	1.00	DRILLED FROM: 750' TO 808' @ 58' / HR. TD SURFACE HOLE @ 7:00 AM 9/9/2011 ROTARY - 125 RPM WT. ON BIT - 5 - 20 K GPM - 400 PUMP PRES. - 900 PSI SURVEY - @ 808' = .75° SAFETY BREAK: 100% TIE OFF
		07:00 - 08:00	1.00	CIRCULATE & CONDITION HOLE TO RUN 8 5/8" CASING
		08:00 - 10:00	2.00	PJSM - DROPPED TOTCO & T O H & LDDP & BHA. SAFETY BREAK: TRIPPING PIPE & FALLING OBJECTS.
		10:00 - 11:00	1.00	PJSM - RUNNING SURFACE CASING RAN 8 5/8" SURFACE CASING AS FOLLOWS: 1 - TEXAS PATTERN SHOE 1 - 8 5/8", 24#, STC, J - 55, SHOE JOINT WITH INSERT FLOAT 17 - JOINTS OF 8 5/8", 24#, J-55, STC CASING RAN VERY WELL w/NO PROBLEMS, CASING SET AT 789'
		11:00 - 12:00	1.00	CIRCULATE & CONDITION HOLE FOR CEMENTING 8 5/8" SURFACE CASING. PJSM: RIG UP HALCO
		12:00 - 13:00	1.00	PJSM - TEST LINES TO 2,500 PSI CEMENT AS FOLLOWS: PUMP 500 SACKS OF LEAD, MIXED TO 14.8PPG, 1.35 YIELD AT 6.5BPM WITH 200 PSI DROPPED PLUG & DISPLACED CEMENT WITH 47.3 BBLS FRESH WATER USING HALLIBURTON PUMP TRUCK AT 6 BPM WITH 290 PSI FINAL DISPLACEMENT PRESSURE. BUMP PLUG @ 1:00 PM WITH 500 PSI. PSI UP TO 1000 PSI, HELD PRESSURE FOR 5 MINUTES. FLOAT HELD. CIRCULATE 47 BBLS (196 SX) TO PIT.
		13:00 - 17:00	4.00	W O C - 4 HRS. SAFETY MEETING: NIPPLING UP & TESTING BOP & CASING
		17:00 - 21:00	4.00	PJSM - REMOVED HALLIBURTON CEMENT HEAD, BACKED OUT LANDING JOINT - SCREW ON 11" x 2 M DRILLING FLANGE & N/U BOP & FLOWLINE TO BELL NIPPLE AND N/U WELL HEAD VALVES.
		21:00 - 21:30	0.50	TEST ANNULAR 250 LO / 1000 HI FOR 15 MINUTES.

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		21:30 - 22:00	0.50	FINISH N/U BOP RISER AND CIRCULATING HEAD. CHAIN OFF BOP.
		22:00 - 23:00	1.00	TIH WITH BIT #2 AND BHA #2. TAG CEMENT @ 743
		23:00 - 23:30	0.50	CLOSE ANNULAR & TEST CASING TO 1,000 PSI for 30 MIN. / GOOD TEST
		23:30 - 00:00	0.50	INSTALL ROTATING RUBBER.
3	09/10/2011	00:00 - 00:30	0.50	DRILLED CEMENT & FLOAT EQUIPMENT FROM: 738' TO 808' @ 140' FT / HR. ROTARY - 60 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: PICKING UP & HANDLING BHA & DRILL COLLARS
		00:30 - 04:30	4.00	DRILLED 7 7/8" PROD. HOLE FROM: 808' TO 1,200' @ 98 FT / HR. ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: HIGH PRESSURE LINES.
		04:30 - 06:00	1.50	DRILLED 7 7/8" PROD. HOLE FROM: 1,200' TO 1,350' @ 98 FT / HR. ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SURVEY @ 1304- 1.25° SAFETY BREAK: WORKING ON MUD PUMP
		06:00 - 10:00	4.00	DRILLED 7 7/8" PROD. HOLE FROM: 1,350' TO 1,550' @ 50 FT / HR. TURNED TO STEEL PITS AT 1500FT. AFTER CIRCULATING RESERVE. BEGAN BLEEDING. OVER DRISPAC PREMIX INTO SYSTEM AND LOWER FLUID LOSS TO LESS THAN 10. ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: WORKING WITH POWER TOOLS.
		10:00 - 14:00	4.00	DRILLED 7 7/8" PROD. HOLE FROM: 1,550' TO 1,750' @ 50 FT / HR. ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: WEARING SAFT BELTS
		14:00 - 18:00	4.00	DRILLED 7 7/8" PROD. HOLE FROM: 1,750' TO 1800' @ 14.5 FT / HR. ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: OFF LOADING PIPE.

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#	Date	Time Start-End	Hrs	Op Details
		18:00 - 22:00	4.00	DRILLED 7 7/8" PROD. HOLE FROM: 1800' TO 1950' @ 37.5 FT / HR. @ 1900' BEGAN CIRCULATING THROUGH RESERVE PIT AND PUMPING 30-BBL SWEEPS EVERY 3-5 CONNECTIONS + 1-VIS CUP OF POLY-PLUS DOWN DP EVERY CONNECTION. ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SURVEY @ 1800- 1° SAFETY BREAK: STRAPPING PIPE ON PIPE RACK.
		22:00 - 00:00	2.00	DRILLED 7 7/8" PROD. HOLE FROM: 1950' TO 2050' @ 25 FT / HR. ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: WEARING PPE WHILE MIXING CHEMICALS
4	09/11/2011	00:00 - 04:00	4.00	DRILLED 7 7/8" PROD. HOLE FROM: 2050' TO 2150' @ 25 FT / HR. ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: WEARING PPE ON RIG FLOOR
		04:00 - 06:00	2.00	DRILLED 7 7/8" PROD. HOLE FROM: 2150' TO 2250' @ 25 FT / HR. ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: FORKLIFT OPERATION
		06:00 - 10:00	4.00	DRILLED 7 7/8" PROD. HOLE FROM: 2250' TO 2352' @ 25.5 FT / HR. TOP OF CIMARRON - 2,332' TOP OF TUBB - 2,352' CIMARRON IS 20' THICK HERE TD OF THIS WELL BORE WILL BE - 2,587' ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: WORKING ON MUD PUMP
		10:00 - 14:00	4.00	DRILLED 7 7/8" PROD. HOLE FROM: 2,352' TO 2,475' @ 30.75 FT / HR. TOP OF CIMARRON - 2,332' TOP OF TUBB - 2,352' CIMARRON IS 20' THICK HERE TD OF THIS WELL BORE WILL BE - 2,587' ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: HIGH PRESSURE LINE

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#	Date	Time Start-End	Hrs	Op Details
		14:00 - 17:30	3.50	DRILLED 7 7/8" PROD. HOLE FROM: 2,475' TO 2,587' @ 37.33 FT / HR. TOP OF CIMARRON - 2,332' TOP OF TUBB - 2,352' CIMARRON IS 20' THICK HERE TD OF THIS WELL BORE WILL BE - 2,587' ROTARY - 80 RPM WT. ON BIT - 10 - 15 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: WIRELINE OPERATION
		17:30 - 19:30	2.00	PJSM - CIRC. & COND. HOLE FOR OPEN HOLE LOGS.
		19:30 - 22:00	2.50	PJSM - MADE WIPER TRIP TO 8 5/8" CASING SHOE @ 805' & BACK TO BOTTOM - TRIP WENT GOOD, NO PROBLEMS, NO TIGHT SPOTS.
		22:00 - 00:00	2.00	CIRCULATE & CONDITION HOLE FOR OPEN HOLE LOGGING & TO RUN 5 1/2" PROD. CSG.
5	09/12/2011	00:00 - 01:00	1.00	CIRCULATE & CONDITION HOLE FOR OPEN HOLE LOGGING & TO RUN 5 1/2" PROD. CSG.
		01:00 - 03:00	2.00	PJSM - STRAP OUT OF HOLE & LDDP & BHA TO RUN OPEN HOLE LOGS & RUN 5 1/2" CASING.
		03:00 - 05:00	2.00	PJSM - RIG UP WEATHERFORD WIRE-LINE & R I H w/1st OPEN HOLE LOG. (DUAL LATERAL) LOG TAGGED OBSTRUCTION @ 1370', TRIED SEVERAL TIMES WITH NO SUCCESS TO PASS 1,370'. PULL OUT OF HOLE WITH LOGGING TOOLS TO RUN WIPER TRIP RIG DOWN WEATHERFORD WIRELINE.
		05:00 - 08:00	3.00	PJSM - MADE UP BIT & BHA & TRIPPED TO BOTTOM TO CLEAR OBSTRUCTION @ 1,370' & CIRC. & COND HOLE FOR 2nd LOGGING ATTEMPT. TRIPPED IN HOLE WITH NO PROBLEMS, MADE 3 PASSES @ 1,370'. SAW NO INDICATION OF BRIDGE OR PROBLEMS. WASHED TO BOTTOM @ 2,587'
		08:00 - 10:00	2.00	CIRCULATE & CONDITION HOLE FOR OPEN HOLE LOGS, PUMPED 2 - HIGH VIS. PAPER SWEEPS.
		10:00 - 12:00	2.00	PJSM - T O H & LDDP & BHA FOR 2nd LOGGING ATTEMPT & TO RUN 5 1/2" PROD. CSG.
		12:00 - 15:00	3.00	PJSM - RIG UP WEATHERFORD WIRE-LINE & R I H w/1st OPEN HOLE LOG. (DUAL LATERAL) LOG. TAGGED BOTTOM @ 2,590' WIRE LINE MD. @ 12:30 PM, LOGGED INTERVAL FROM TD BACK TO 8 5/8" CSG. SHOE.
		15:00 - 18:00	3.00	RAN 2nd LOGGING RUN (COMPENSATED NEUTRON) TAGGED BOTTOM & LOGGED SUCCESSFULLY w/NO PROBLEMS / RIGGED DOWN WEATHERFORD & E-MAILED LOGS TO HOUSTON OFFICE.
		18:00 - 23:00	5.00	PJSM - RIG UP & RUN 5 1/2" PROD. CSG. AS FOLLOWS: 1 - FLOAT SHOE - 0.50 - 2,577.80 - 2,577.30' 1 - 5 1/2", 15.5# SHOE JT. 10.88 - 2,577.30 - 2,566.92' 6 - JTS. 5 1/2", 15.5# CSG. JTS. - 151.22 - 2,566.92 - 2,344.29' 82 - JTS. FIBER GLASS 5 1/2" - 2,344.29 - 2,344.29 - 17.00' 1 - LANDING JT. 5 1/2", 15.5# - 17.00 - 17.00 - 5.00' - (STICK UP) FIBERGLASS / STEEL TRANSITION @ 2,344.29' MD. 5 1/2" PROD. CSG. SET & CEMENTED @ 2,577.30' MD. SAFETY BREAK: RUNNING CASING
		23:00 - 00:00	1.00	CIRC. & CONDITION HOLE FOR CEMENT JOB. RIG DOWN CRT. & RIG UP HALCO, HOLD PJSM & PREPARE TO CEMENT 5 1/2" PROD. CSG.

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6	09/13/2011	00:00 - 01:30	1.50	<p>PJSM -</p> <p>PRESSURE TEST LINES TO 2500 PSI</p> <p>PUMPED 20 BBL FRESH WATER SPACER</p> <p>LEAD CEMENT:</p> <ul style="list-style-type: none"> - 11.1 PPG PREMIUM PLUS WITH 2% CACL, 460 SACKS - 0.25 LBM/SACK POLY- E - FLAKE - YIELD: 3.25 CUFT/SACK - SLURRY VOLUME: 266.2 BBLS - PUMP RATE: 6.0 BBL/MIN - CASING PRESSURE: 350 PSI <p>TAIL CEMENT:</p> <ul style="list-style-type: none"> - 13.2 PPG PREMIUM PLUS CEMENT WITH 2% CC, 150 SACKS - SLURRY VOLUME: 49.4 BBLS - 0.25 LBM/SACK POLY- E - FLAKE - YIELD: 1.85 CUFT/SACK - PUMP RATE: 6 BBL/MIN - CASING PRESSURE: 320 PSI <p>DISPLACE WITH 56.5 BBL OF FRESH WATER</p> <ul style="list-style-type: none"> - PUMP RATE: 5 BBL/MIN - CASING PRESSURE: 580.0 PSI <p>- BUMPED PLUG AT 2 BBL/MIN AT 1050 PSI @ 1:00 AM 9/13/2011</p> <p>- CIRCULATED 186 BBLS OF CEMENT TO SURFACE. (322 SKS)</p> <p>FLOAT HELD - RIGGED DOWN HALCO</p>
		01:30 - 05:30	4.00	W O C - CLEAN PITS, RIG DOWN RIG, PREPARE FOR RIG MOVE TO NEW LOCATION.
		05:30 - 06:00	0.50	RELEASED CHAINS ON CASING, RIGGED DOWN HALCO CEMENTING HEAD, BACKED OUT LANDING JOINT, N/D BOP.
				MADE UP WING NUT ON WELL-HEAD AND SECURED WELL HEAD PROPERLY.
		06:00 - 09:00	3.00	<p>PJSM - RIG DOWN & MOVE RIG #216 & CAMP w/OFFICE TRAILER & UTILITIES, TO THE BDU # 2034 - 182 K. NOTIFIED ED MARTIN @ NMOC OF RIG MOVE & INTENT TO SPUD THE BDU # 2034 182 K. 8:00 AM 9/13/2011</p>
		09:00 - 12:00	3.00	<p>FINISHED RIGGING DOWN & MOVING OFF LOCATION - RIG OFF LOCATION & LOCATION CLEAN @ 12:00 NOON - RIG RELEASED @ 12:00 NOON 9/13/2011</p>