

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 Start-End	Hrs	Op Details
1	07/18/2011	06:00 - 12:00	6.00	RIGGING DOWN & MOVING TO BDU # 2132 031 G CALLED & NOTIFIED ED MARTIN @ NMOC D OF RIG MOVE & INTENT TO SPUD THE "BDU # 2132 031 G" @ 9:00 AM RIG MOVE WAS SLOWER THAN USUAL DUE TO TRINIDAD MOVING BOTH #208 & #216 TODAY & 1 TANDEM BROKE DOWN EARLY. RIG MOVE STILL WENT PRETTY GOOD. SAFETY BREAK: MOVING & RIGGING UP
		12:00 - 16:00	4.00	MOVING IN & RIGGING UP ON NEW LOCATION, RIG IS 75% ON LOCATION 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, 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 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 DAY WORK @ 12:00 MIDNIGHT.
		01:30 - 06:00	4.50	SPUDDED 12 1/4" HOLE @ 01:30 HOURS 7/19/2011 DRILLED FROM: 0' TO 300' @ 66.67 FT / HR. ROTARY - 125 RPM WT. ON BIT - 5 - 15 K GPM - 400 PUMP PRES. - 900 PSI SAFETY BREAK: PICKING UP & HANDLING BHA & DRILL COLLARS
		06:00 - 10:00	4.00	DRILLED FROM: 300' TO 500' - 200' @ 50 FT / HR. ROTARY - 125 RPM WT. ON BIT - 15 - 35 K GPM - 380 PUMP PRES. - 900 PSI SAFETY BREAK: HOUSE KEEPING
		10:00 - 14:00	4.00	DRILLED FROM: 500' TO 806' - 306' @ 76.5 FT / HR. ROTARY - 125 RPM WT. ON BIT - 15 - 35 K GPM - 380 PUMP PRES. - 1000 PSI TD SURFACE HOLE @ 2:00 PM @ 806' (20" RATHOLE) (8 5/8" SURFACE CSG. WILL BE SET @ 786' MD.) 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 RUN 8 5/8" SURFACE CASING AS FOLLOWS: - TX PATTERN SHOE - 1 SHOE JOINT WITH INSERT FLOAT - 18 JOINTS OF 8 5/8" 24# J-55 STC SET AT 781'
		21:00 - 21:30	0.50	CIRC. & COND HOLE FOR CEMENT & RIG DOWN CRT. & RIG UP HALCO

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		21:30 - 23:30	2.00	PJSM - TEST LINES TO 2,500 PSI CEMENT AS FOLLOWS: PUMP 500 SACKS OF LEAD, MIXED TO 14.8PPG, 1.35 YELD AT 6.5BPM WITH 200 PSI DROPPED PLUG @ 22:30, DISPLACED CEMENT WITH 46.4 BBLS FRESH WATER USING HALLIBURTON PUMP TRUCK AT 6 BPM WITH 277 PSI FINAL DISPLACEMENT PRESSURE BUMP PLUG @ 23:00 WITH 535 PSI, HELD PRESSURE FOR 5 MINUTES. FLOAT HELD, CIRCULATE 37 BBLS TO PIT
		23:30 - 00:00	0.50	W O C - CLEAN PITS. CLEAN & STRAIGHTEN UP LOCATION - SAFETY MEETING TOPIC - WORKING ON 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 HIGH PRESURE HOSES.
		03:30 - 06:00	2.50	PJSM - BACK OUT LANDING JOINT - SCREW ON WELL HEAD & DRILLING FLANGE. N/U BOP & 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 DRILLING AHEAD FROM 806' TO 1,200' ROTARY - 85-100 RPM WT. ON BIT - 20-25 K GPM - 400 PUMP PRES. - 1100 PSI SAFETY BREAK: MAKING CONNECTIONS
		15:00 - 19:00	4.00	DRILLING AHEAD FROM 1,200' TO 1,400' ROTARY - 85-100 RPM WT. ON BIT - 20-25 K GPM - 400 PUMP PRES. - 1100 PSI WIRELINE SURVEY @ 1243' = 1 DEGREE SAFETY BREAK: RUNNING SURVEY
		19:00 - 23:00	4.00	DRILLING AHEAD FROM 1,400' TO 1,700' ROTARY - 85-100 RPM WT. ON BIT - 20-25 K GPM - 400 PUMP PRES. - 1100 PSI SAFETY BREAK: WORKING IN BAD WEATHER
		23:00 - 00:00	1.00	DRILLING AHEAD FROM 1,700' TO 1,800' ROTARY - 85-100 RPM WT. ON BIT - 20-25 K GPM - 400 PUMP PRES. - 1100 PSI WIRELINE SURVEY @ 1743' = 11/2 DEGREE 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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Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
		03:00 - 06:00	3.00	DRILLING AHEAD FROM 1800' TO 1900" ROTARY - 85-100 RPM WT. ON BIT - 20-25 K GPM - 400 PUMP PRES. - 1100 PSI SAFETY BREAK: MIXING CAUSTIC SODA
		06:00 - 10:00	4.00	DRILLING AHEAD FROM 1900' TO 2,080' 180' @ 45 FT/HR. ROTARY - 85-100 RPM WT. ON BIT - 20-25 K GPM - 400 PUMP PRES. - 1100 PSI SAFETY BREAK: MIXING CAUSTIC SODA
		10:00 - 11:00	1.00	DRILLING AHEAD FROM 2,080' TO 2,115' 35' @ 35 FT/HR. TOP OF CIMARRON @ 2,115', 19' @ 19 FT/HR. (19 FT. THICK AS PER PROG & ACTUAL DRILL TIME.) TOP OF TUBB @ 2,135" ROTARY - 85-100 RPM WT. ON BIT - 20-25 K GPM - 400 PUMP PRES. - 1100 PSI
		11:00 - 12:00	1.00	DRILLING AHEAD FROM 2,115' TO 2,134' 19' @ 19 FT/HR. TOP OF CIMARRON @ 2,115', 19' @ 19 FT/HR. (19 FT. THICK AS PER PROG & ACTUAL DRILLING TIME.) TOP OF TUBB @ 2,134' ROTARY - 85-100 RPM WT. ON BIT - 20-25 K GPM - 400 PUMP PRES. - 1100 PSI
		12:00 - 16:30	4.50	DRILLING AHEAD FROM 2,134' TO 2,304' 170' @ 39 FT/HR. TOP OF CIMARRON @ 2,115', 19' @ 19 FT/HR. (19 FT. THICK AS PER PROG & ACTUAL DRILLING TIME.) TOP OF TUBB @ 2,134' ROTARY - 85-100 RPM WT. ON BIT - 20-25 K GPM - 400 PUMP PRES. - 1100 PSI TD WELLBORE @ 2,304' (160' INTO THE TUBB + 10' RATHOLE) TD @ 4:30 PM 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: 1 - FLOAT SHOE - 1.00 - 2,302.00' - 2,301.00' 1 - 5 1/2, 15.5# SHOE JT. 10.00 - 2,301.00' - 2,291.00' 4 - JTS. 5 1/2", 15.5# CSG. JTS. - 165.98 - 2,291.00' - 2,125.02' 73 - JTS. FIBER GLASS 5 1/2" - 2,112.80 - 2,125.02 - 12.22' 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: 1 - FLOAT SHOE - 1.00 - 2,302.00' - 2,301.00' 1 - 5 1/2, 15.5# SHOE JT. 10.00 - 2,301.00' - 2,291.00' 4 - JTS. 5 1/2", 15.5# CSG. JTS. - 165.98 - 2,291.00' - 2,125.02' 73 - JTS. FIBER GLASS 5 1/2" - 2,112.80 - 2,125.02 - 12.22' 1 - LANDING JT. 5 1/2", 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: PRESSURE TEST LINES TO 2500 PSI PUMPED 20 BBL FRESH WATER SPACER. LEAD CEMENT: - 11.1 PPG PREMIUM PLUS WITH 2% CACL, 350 SACKS - 0.25 LBM/SACK POL E FLAKE - YIELD: 3.25 CUFT/SACK - SLURRY VOLUME: 170 BBLS - PUMP RATE: 6 BBL/MIN - CASING PRESSURE: 187 PSI TAIL CEMENT: - 13.2 PPG PREMIUM PLUS CEMENT WITH 2% CC, 150 SACKS - SLURRY VOLUME: 50 BBLS - 0.25 LBM/SACK POL E FLAKE - YIELD: 1.85 CUFT/SACK - PUMP RATE: 6 BBL/MIN - CASING PRESSURE: 120 PSI DISPLACE WITH 50.6 BBL OF FRESH WATER - PUMP RATE: 6.5 BBL/MIN - CASING PRESSURE: 495 PSI - BUMPED PLUG AT 1 BBL/MIN AT 1000 PSI @ 9:00 AM 7/22/2011 - CIRCULATED 104 BBLS OF CEMENT TO SURFACE. (180 sx) FLOAT HELD - RIGGED DOWN HALCO
		09:00 - 13:00	4.00	CHAINED DOWN @ CEMENTING HEAD & W O C - 4 HOURS 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