

30-021-20523

OXY USA INC

## Operation Summary Report

Well: BRAVO DOME UNIT 1930 041G

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 7/5/2011

End Date: 7/8/2011

Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
1	07/04/2011	20:00 - 00:00	4.00	RIGGING DOWN ON BDU 1833-071G
2	07/05/2011	00:00 - 06:00	6.00	WAITING ON TRUCKS AND DAYLIGHT TO MOVE RIG  TRUCKS WILL BE ON LOCATION AT 07:00  06:00 - 07:00 1.00 SAFETY MEETING WITH TRUCKING CO. AND RIG CREW  STARTED MOVING RIG TO NEXT LOCATION  07:00 - 11:00 4.00 CONTINUED MOVING RIG TO LOCATION 30% MOVED OVER  SAFETY BREAK: WORKING IN HOT CONDITIONS / STAYING HYDRATED  11:00 - 15:00 4.00 CONTINUED MOVING RIG TO LOCATION 100% MOVED OVER RIGGING UP  SAFETY BREAK: PJSM ON NEW LOCATION RIGGING UP SPOTTING EQUIPMENT  15:00 - 18:00 3.00 RAISE DERRICK AND FINISH RIG UP  18:00 - 21:00 3.00 R/U HYDRAULIC PIPE HANDLER AND TEST. SET SUMP PUMP.  21:00 - 21:30 0.50 RIG PRE SPUD INSPECTION  SAFETY EDUCATION: HELICOPTER LANDING ZONE SAFETY  21:30 - 00:00 2.50 DRILLED FROM: 12' TO 147' @ 49' / HR.  ROTARY - 125 RPM WT. ON BIT - 5 - 10 K GPM - 380 PUMP PRES. - 450 PSI  SAFETY BREAK: HIGH PRESSURE LINES
3	07/06/2011	00:00 - 03:00	3.00	DRILLED FROM: 148' TO 410' @ 87' / HR.  ROTARY - 125 RPM WT. ON BIT - 12 - 20 K GPM - 380 PUMP PRES. - 450 PSI  SAFETY BREAK: HIGH PRESSURE LINES  03:00 - 03:30 0.50 WIRELINE SURVEY  03:30 - 06:00 2.50 DRILLED FROM: 410' TO 654' @ 97' / HR.  ROTARY - 125 RPM WT. ON BIT - 12 - 20 K GPM - 380 PUMP PRES. - 450 PSI  SAFETY BREAK: ELECTRICAL CONNECTIONS AROUND WATER  06:00 - 08:30 2.50 DRILLED FROM: 654" TO 806', TD @ 97' / HR. ROTARY - 125 RPM WT. ON BIT - 12 - 20 K GPM - 380 PUMP PRESSURE - 450 PSI SAFETY BREAK: ELECTRICAL CONNECTIONS AROUND WATER  08:30 - 09:00 0.50 CIRCULATE & CONDITION HOLE FOR RUNNING 8 5/8" CASING  09:00 - 11:00 2.00 RUN SURVEY AT TD PJSM - T O H TO RUN 8 5/8" SURFACE CASING  11:00 - 14:00 3.00 PJSM - RIG UP & RUN 18 JTS: 8 625", 24# J-55, 8 RDS CASING FROM SURFACE TO 786.40', TORQUE CONNECTION TO 2440' CIRCULATE LAST 3 JTS. DOWN 1 - 8 5/8" TEXAS PATTERN SHOE SET AT 786.40, 1 - SHOE JOINT 1 - INSERT FLOAT SET AT 742.35'  14:00 - 14:30 0.50 RIG DOWN CASING EQUIPMENT CIRCULATE BOTTOMS TWICE SAFETY MEETING WITH HALLIBURTON RIG UP HALLIBURTON FOR CEMENT JOB  14:30 - 15:30 1.00 PUMP 600 SACKS OF LEAD, INTERFILL C MIXED TO 14.8PPG, 1.35' YELD AT 6.5BPM WITH 200 PSI DROPPED PLUG @ 15:01 DISPLACED CEMENT WITH 47.2 BBLS FRESH WATER USING HALLIBURTON PUMP TRUCK AT 6 BPM WITH 273 PSI FINAL DISPLACEMENT PRESSURE. BUMP PLUG @ 15:17 WITH 575 PSI. HELD PRESSURE FOR 10 MINUTE. FLOAT EQUIPMENT HOLDING OK. CIRCULATE 283 SKS / 68 BBLS TO PIT CIP @ 15:28  15:30 - 16:30 1.00 RIG DOWN HALLIBURTON  16:30 - 19:30 3.00 WAIT ON CEMENT TO CURE

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		19:30 - 23:30	4.00	WOC; BACK OUT LANDING JOINT; SCREW ON HEAD; N/U BOP.
		23:30 - 00:00	0.50	INSTALLED MANDREL; TESTED ANNULAR TO 1,000# FOR 5 MINUTES. REMOVED MANDREL.
4	07/07/2011	00:00 - 01:30	1.50	FINISH N/U OF BOP AND R/U FLOOR FOR TRIPPING.
		01:30 - 02:00	0.50	TIH WITH PRODUCTION ASSEMBLY
		02:00 - 02:30	0.50	TEST CASING TO 1000# FOR 30 MINUTES
		02:30 - 03:00	0.50	R/U ROTATING HEAD RUBBER AND FINISH TIH TO CEMENT. TAGGED CEMENT @ 698'
		03:00 - 04:00	1.00	DRILL CEMENT AND FLOAT EQUIPMENT TO 806'
		04:00 - 06:00	2.00	DRILLED FROM: 806' TO 1023' @ 108' / HR.  ROTARY - 90 RPM WT. ON BIT - 20 K GPM - 380 PUMP PRES. - 750 PSI  SAFETY BREAK: ELECTRICAL CONNECTIONS AROUND WATER
		06:00 - 10:00	4.00	DRILLED FROM: 1023' TO 1274' @ 1274' 63' / HR.  ROTARY - 90 RPM WT. ON BIT - 20- 25 K GPM - 380 PUMP PRES. - 750 PSI MUD WEIGHT OUT = 8.7 PPG VIS 35  SAFETY BREAK: SAFE OPERATION OF RUNNING WIRELINE SURVEY
		10:00 - 10:30	0.50	WIRELINE SURVEY @ 1242' = 1.000 DEG
		10:30 - 14:30	4.00	DRILLED FROM: 1274' TO 1425' @ 38' / HR.  ROTARY - 90 RPM WT. ON BIT - 20- 25 K GPM - 380 PUMP PRES. - 750 PSI MUD WEIGHT OUT = 8.9 PPG VIS 33 WATER LOSS 10 %  SAFETY BREAK: PINCH POINT DURING CONNECTION
		14:30 - 18:30	4.00	DRILLED FROM: 1425' TO 1630' @ 51' / HR.  ROTARY - 90 RPM WT. ON BIT - 20- 25 K GPM - 380 PUMP PRES. - 750 PSI MUD WEIGHT OUT = 8.9 PPG VIS 33 WATER LOSS 10 %  SAFETY BREAK: MUD CHEMICALS
		18:30 - 20:30	2.00	DRILLED FROM: 1630' TO 1739' @ 46' / HR.  ROTARY - 90 RPM WT. ON BIT - 20- 25 K GPM - 380 PUMP PRES. - 750 PSI MUD WEIGHT OUT = 8.9 PPG VIS 33 WATER LOSS 10 %  SAFETY BREAK: MAKING CONNECTIONS
		20:30 - 21:00	0.50	WIRELINE SURVEY @ 1706' = 1.5 DEG

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Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
		21:00 - 00:00	3.00	DRILLED FROM: 1739' TO 1875' @ 45' / HR.  ROTARY - 90 RPM WT. ON BIT - 20- 25 K GPM - 380 PUMP PRES. - 750 PSI MUD WEIGHT OUT = 8.9 PPG VIS 33 WATER LOSS 10 %  SAFETY BREAK: HOUSEKEEPING
5	07/08/2011	00:00 - 04:00	4.00	DRILLED FROM: 1875' TO 2015' @ 35' / HR.  ROTARY - 75 RPM WT. ON BIT - 20- 25 K GPM - 380 PUMP PRES. - 850 PSI MUD WEIGHT OUT = 8.9 PPG VIS 33  SAFETY BREAK: HOUSEKEEPING
		04:00 - 06:00	2.00	DRILLED FROM: 2015' TO 2050' @ 17' / HR.  ROTARY - 75 RPM WT. ON BIT - 20- 25 K GPM - 380 PUMP PRES. - 850 PSI  SAFETY BREAK: PROPER TOOLS FOR JOB
		06:00 - 09:00	3.00	DRILLED FROM: 2050' TO 2135' @ 28' / HR., TD @ 2135'  ROTARY - 75 RPM WT. ON BIT - 25 - 28 K GPM - 380 PUMP PRES. - 850 PSI TORQUE ON BOTTOM = 2300 TORQUE OFF BOTTOM = 800  PRIOR TO ENTER CIMARRON MUD CHECK: MUD WT = 9.2 PPG IN, OUT 9.3 VIS 38 KCL = 6% TOP OF CIMARRON = 2056' TOP OF TUBB = 2075' TD WELL @ 2135'  SAFETY BREAK: MIXING MUD & CHEMICALS
		09:00 - 11:00	2.00	PUMP 20 BBLs SWEEP TO CONDITION HOLE , WATER LOSS  CHECK WATER LOSS @ 11:00 9CC
		11:00 - 13:30	2.50	PJSM WITH CREW ABOUT TRIPPING PIPE, DROP SURVEY AND TRIP OUT OF HOLE  T O H FROM 2135
		13:30 - 14:00	0.50	PULL ROTATING HEAD RUBBER, R/U TOP DRIVE, BALES AND ELEVATORS TO RUN 5 1/2' PRODUCTION CASING
		14:00 - 16:30	2.50	PJSM WITH RIG CREW RUNNING CASING  RUN 5.5, CASING 12.5' TO 2129', TORQUE CONNECTIONS TO 2170.AVERAGE FT/LB AS FOLLOWS:  1 GUIDE SHOE =( 2129') 1 SHOE JT =( 2117.58' TO 2129.00') 1 FLOAT INSERT =( 2117.58') 50 JTS. 5.5 , 15# , J-55, PRODUCTION CASING,( 2117.58')

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		16:30 - 17:00	0.50	BACK-OFF 5 1/2" COLLAR  INSTALLED WELLHEAD MANDRILL ON LANDING JOINT SUCCESSFULLY LANDED MANDRILL IN WELLHEAD
		17:00 - 17:30	0.50	PJSM - RIG UP HALCO CEMENTING HEAD  CIRCULATE AND CONDITION HOLE FOR CEMENT JOB  SAFETY MEETING WITH ALL PERSONAL ON LOCATION
		17:30 - 19:30	2.00	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, 300 SACKS - 0.25 LBM/SACK POLY E FLAKE - YIELD: 3.25 CUFT/SACK - SLURRY VOLUME: 173 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 POLY E FLAKE - YIELD: 1.85 CUFT/SACK - PUMP RATE: 6 BBL/MIN - CASING PRESSURE: 120 PSI  DISPLACE WITH 50.5 BBL OF FRESH WATER - PUMP RATE: 6.5 BBL/MIN - CASING PRESSURE: 480 PSI  - BUMPED PLUG AT 2 BBL/MIN AT 890PSI - CIRCULATED 90.5BBLS (156 SACKS) OF CEMENT TO SURFACE
		19:30 - 21:00	1.50	N/D BOP FROM WELLHEAD  SAFETY MEETING: SUSPENDED LOADS
		21:00 - 00:00	3.00	CLEANING PITS. RIG RELEASED @ 23:59 ON 7/8/11