

30-059-20542

OXY USA INC

Operation Summary Report

Well: BRAVO DOME UNIT 2233 041G

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 8/17/2011

End Date: 8/21/2011

Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
1	08/17/2011	06:00 - 10:00	4.00	PJSM - RIGGED DOWN & MOVED RIG & CAMP TO NEW LOCATION & RIGGED UP. NOTIFIED ED MARTIN @ NMOCD OF RIG MOVE & INTENT TO SPUD @ 10:00 AM 8/17/2011
		10:00 - 16:00	6.00	PJSM - RIGGING UP TO SPUD, MIXED SPUD MUD. DIG DITCHES. SAFETY BREAK - P/U 8" DRILL COLLAR & BHA
		16:00 - 20:00	4.00	PERFORMED RIG INSPECTION & ACCEPTED RIG ON DAY-WORK CONTRACT @ 4: PM 8/17/2011 SPUDDER 12 1/4" HOLE @ 16:00 HOURS (4:00 PM) 8/17/2011 DRILLED FROM: 0' TO 240' @ 60' / HR. ROTARY - 125 RPM WT. ON BIT - 5 - 15 K GPM - 400 PUMP PRES. - 900 PSI SAFETY BREAK: PICKING UP & HANDLING BHA & DRILL COLLARS
		20:00 - 00:00	4.00	DRILLED FROM: 240' TO 450' @ 52.5' / HR. ROTARY - 125 RPM WT. ON BIT - 5 - 15 K GPM - 380 PUMP PRES. - 900 PSI SAFETY BREAK: GENERAL HOUSEKEEPING
2	08/18/2011	00:00 - 04:00	4.00	DRILLED FROM: 450' TO 750' @ 75' / HR. WIRELINE SURVEY= 1 DEG @ 398' ROTARY - 125 RPM WT. ON BIT - 5 - 15 K GPM - 380 PUMP PRES. - 900 PSI SAFETY BREAK: GENERAL HOUSEKEEPING
		04:00 - 06:00	2.00	DRILLED FROM: 750' TO 825' @ 83.50' / HR. TO SURFACE HOLE @ 825' @ 6:00 AM - 8/17/2011 ROTARY - 125 RPM WT. ON BIT - 5 - 15 K GPM - 380 PUMP PRES. - 900 PSI SAFETY BREAK: WEARING ALL PPE WHILE MIXING MUD.
		06:00 - 07:00	1.00	CIRCULATE & CONDITION HOLE FOR SURFACE CASING JOB.
		07:00 - 09:00	2.00	DROP TOTCO AND TOH TO RUN 8 5/8" SURFACE CASING. SAFETY BREAK: TRIPPING PIPE
		09:00 - 10:00	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 19 - JOINTS OF 8 5/8", 24#, J-55, STC CASING RAN VERY WELL w/NO PROBLEMS, CASING SET AT 805'
		10:00 - 11:00	1.00	CIRCULATE & CONDITION HOLE FOR CEMENTING 8 5/8" SURFACE CASING. PJSM: RIG UP HALCO
		11:00 - 12:00	1.00	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 & DISPLACED CEMENT WITH 48.7 BBLs FRESH WATER USING HALLIBURTON PUMP TRUCK AT 6 BPM WITH 250 PSI FINAL DISPLACEMENT PRESSURE. BUMP PLUG @ 12:00 AM WITH 574 PSI. PSI UP TO 1000 PSI, HELD PRESSURE FOR 5 MINUTES. FLOAT HELD. CIRCULATE 48 BBLs (200 SX) TO PIT.
		12:00 - 16:00	4.00	W O C - CLEAN PITS. CLEAN & STRAIGHTEN UP LOCATION - SAFETY MEETING TOPIC - GOOD HOUSE KEEPING
		16:00 - 19:00	3.00	HANDS REMOVED HALLIBURTON CEMENT HEAD PJSM - BACK OUT LANDING JOINT - SCREW ON WELL HEAD & DRILLING FLANGE. N/U BOP & FLOWLINE TO BELL NIPPLE AND WELL HEAD VALVES
		19:00 - 19:30	0.50	TEST ANNULAR 250 LO / 1000 HI FOR 15 MINUTES.
		19:30 - 20:30	1.00	FINISH N/U BOP RISER AND CIRCULATING HEAD. CHAIN OFF BOP.

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		20:30 - 22:00	1.50	TIH WITH BIT #2 AND BHA #2. TAG CEMENT @ 760'
		22:00 - 23:30	1.50	INSTALL ROTATING RUBBER
		23:30 - 00:00	0.50	TEST CASING 1000# FOR 30 MINUTES. TEST OK.
3	08/19/2011	00:00 - 01:30	1.50	DRILLED CEMENT & FLOAT EQUIPMENT FROM: 757' TO 825' @ 104 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
		01:30 - 06:00	4.50	DRILLED FROM: 825' TO 1400' @ 78' / HR. ROTARY - 80 RPM WT. ON BIT - 20 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: FORKLIFT SAFETY
		06:00 - 10:00	4.00	DRILLED FROM: 1400' TO 1600' @ 50' / HR. ROTARY - 80 RPM WT. ON BIT - 20 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: MIXING MUD & CHEMICALS
		10:00 - 14:00	4.00	DRILLED FROM: 1600' TO 1800' @ 50' / HR. ROTARY - 80 RPM WT. ON BIT - 20 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: WORKING IN BAD WEATHER
		14:00 - 18:00	4.00	DRILLED FROM: 1800' TO 2000' @ 50' / HR. WIRE LINE SURVEY @ 1,806' = 1.0 ROTARY - 80 RPM WT. ON BIT - 20 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: MAKING A CONECTION
		18:00 - 22:00	4.00	DRILLED FROM: 2000' TO 2150' @ 37.5' / HR. ROTARY - 80 RPM WT. ON BIT - 20 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: WEARING ALL PPE
		22:00 - 00:00	2.00	DRILLED FROM: 2150' TO 2250' @ 50' / HR. ROTARY - 80 RPM WT. ON BIT - 20 K GPM - 400 PUMP PRES. - 1000 PSI SAFETY BREAK: JEWELRY POLICY

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4	08/20/2011	00:00 - 04:00	4.00	DRILLED FROM 2250' TO 2381' @ 32.75' / HR TOP OF CIMARRON @ 2,381' MD CIMARRON DEPTH = 17' TOP OF TUBB @ 2,398' DRILL TUBB FORM - 140' DRILL RATHOLE - 20' TD WELLBORE @ 2,558' ROTARY - 80 RPM WT. ON BIT - 20K GPM - 400 PUMP PRESS - 1200 PSI SAFETY BREAK: TRIPPING PIPE
		04:00 - 06:00	2.00	DRILLED FROM 2381' TO 2450' @ 34.5 HR. TOP OF CIMARRON @ 2,381' MD CIMARRON DEPTH = 17' TOP OF TUBB @ 2,398' DRILL TUBB FORM - 140' DRILL RATHOLE - 20' TD WELLBORE @ 2,558' ROTARY - 80 RPM WT. ON BIT - 20K GPM - 400 PUMP PRESS - 1200 PSI SAFETY BREAK: LAY DOWN BHA
		06:00 - 08:30	2.50	DRILLED FROM 2450' TO 2558' @ 43.2 HR. TD WELL BORE @ 2,558' @ 8:30 AM 8/20/2011 TOP OF CIMARRON @ 2,381' MD CIMARRON DEPTH = 17' TOP OF TUBB @ 2,398' DRILL TUBB FORM - 140' DRILL RATHOLE - 20' TD WELLBORE @ 2,558' ROTARY - 80 RPM WT. ON BIT - 20K GPM - 400 PUMP PRESS - 1200 PSI SAFETY BREAK: LAY DOWN BHA
		08:30 - 09:30	1.00	PJSM - CIRC. & CONDITION HOLE FOR OPEN HOLE LOGS.
		09:30 - 11:30	2.00	PJSM - MADE WIPER TRIP TO 8 5/8" CASING SHOE @ 805' & BACK TO BOTTOM - TRIP WENT GOOD, NO PROBLEMS, NO TIGHT SPOTS.
		11:30 - 12:30	1.00	CIRCULATE & CONDITION HOLE FOR OPEN HOLE LOGGING & TO RUN 5 1/2" PROD. CSG.
		12:30 - 15:00	2.50	PJSM - STRAP OUT OF HOLE & LDDP & BHA TO RUN OPEN HOLE LOGS & RUN 5 1/2" CASING.
		15:00 - 19:00	4.00	PJSM - RIG UP WEATHERFORD WIRE-LINE & R I H w/1st OPEN HOLE LOG. (DUAL LATERAL) LOG TAGGED BOTTOM @ 2,558' MD. @ 6:00 PM
		19:00 - 21:00	2.00	RAN 2nd LOGGING RUN (COMPENSATED NEUTRON) TAGGED BOTTOM & LOGGED SUCCESSFULLY w/NO PROBLEMS / RIGGED DOWN WEATHERFORD & E-MAILED LOGS TO HOUSTON OFFICE.

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		21:00 - 00:00	3.00	RUN 5 1/2" PROD. CSG. AS FOLLOWS: 1 - FLOAT SHOE - 1.00 - 2,541.00 - 2,540.00' 1 - 5 1/2", 15.5# SHOE JT. 10.80 - 2,540.00 - 2,529.80' 4 - JTS. 5 1/2", 15.5# CSG. JTS. - 151.22 - 2,529.80 - 2,389.38' 85 - JTS. FIBER GLASS 5 1/2" - 2,389.38 - 2,398.38 - 17.00' 1 - LANDING JT. 5 1/2", 15.5# - 17.00 - 17.00 - - 5.00' - (STICK UP) FIBERGLASS / STEEL TRANSITION @ 2,390' MD. SAFETY BREAK: PJSM RUNNING CASING
5	08/21/2011	00:00 - 03:30	3.50	RUN 5 1/2" PROD. CSG. AS FOLLOWS: 1 - FLOAT SHOE - 1.00 - 2,541.00 - 2,540.00' 1 - 5 1/2", 15.5# SHOE JT. 10.80 - 2,540.00 - 2,529.80' 4 - JTS. 5 1/2", 15.5# CSG. JTS. - 151.22 - 2,529.80 - 2,392.66' 85 - JTS. FIBER GLASS 5 1/2" - 2,392.66 - 2,392.66 - 17.00' 1 - LANDING JT. 5 1/2", 15.5# - 17.00 - 17.00 - - 5.00' - (STICK UP) FIBERGLASS / STEEL TRANSITION @ 2,392.66' MD. SAFETY BREAK: PJSM RUNNING CASING
		03:30 - 07:30	4.00	BREAK CIRCULATION & WASHED CASING TO BOTTOM @ 2,558' @ REPORT TIME (CASING IS ON BOTTOM @ REPORT TIME).
		07:30 - 09:00	1.50	PJSM - PICKED UP CASING, BROKE OUT LANDING JOINT, & LAID DOWN 1 JT. OF 5 1/2" FIBERGLASS CASING (29.13'). MADE UP LANDING JOINT & MANDRELL ON TOP OF CASING STRING, & CIRCULATED & LANDED 5 1/2" PRODUCTION CASING PROPERLY INTO WELL-HEAD AT THE PROPER SETTING DEPTH. (WE HAD 1 EXTRA JOINT OF FIBERGLASS CSG. IN THE PIPE TALLY DUE TO A TYPING ERROR IN THE RUN TALLY.)
		09:00 - 10:30	1.50	SAFETY BREAK: CEMENTING PROCEDURES & WORKING WITH HIGH PRESSURE LINES & EQUIPMENT. RIGGING UP HALLIBURTON & PRESSURE TESTING LINES & EQUIPMENT. CHAINED DOWN 5 1/2" CEMENTING HEAD & CASING.
		10:30 - 12:00	1.50	PJSM - PRESSURE TEST LINES TO 2500 PSI PUMPED 20 BBL FRESH WATER SPACER LEAD CEMENT: - 11.1 PPG PREMIUM PLUS WITH 2% CACL, 510 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: 200 PSI TAIL CEMENT: - 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: 200 PSI DISPLACE WITH 55.5 BBL OF FRESH WATER - PUMP RATE: 5 BBL/MIN - CASING PRESSURE: 600.0 PSI - BUMPED PLUG AT 2 BBL/MIN AT 1000 PSI @ 12:00 PM 8/21/2011 - CIRCULATED 196 BBLS OF CEMENT TO SURFACE. (339 SKS) FLOAT HELD - RIGGED DOWN HALCO
		12:00 - 16:00	4.00	W/O C - CLEAN PITS, RIG DOWN RIG, PREPARE FOR RIG MOVE TO NEW LOCATION. TRUCKS ARRIVED @ 2: PM. WE MOVED THE TRAILER OFFICE & CAMP & BEGAN MOVING RIG COMPONENTS WHILE W/O C MANDATORY 4 HRS.

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		16:00 - 18:00	2.00	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. RELEASED RIG 216 @ 6:00 PM 8/21/2011