

OXY USA INC

Operation Summary Report

Well: BRAVO DOME UNIT 1835 102G
 Project: BRAVO DOME
 Site: BRAVO DOME C02 UNIT

Event Name: DEV DRILLING
 Prim. Reason: ORIG DRILL VERT
 Start Date: 9/1/2011
 End Date: 9/5/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
1	09/01/2011	17:00 - 00:00	7.00	WAITING ON TRUCKS AND DAYLIGHT
2	09/02/2011	00:00 - 07:30	7.50	WAITING ON TRUCKS AND DAYLIGHT
		07:30 - 08:00	0.50	PJSM WITH RIG CREW AND DRIVERS: STOP WORK AUTHORITY, TAG LINES, FALL PROTECTION, 5 MPH ON LOCATION, 30' BUFFER WHILE LOADING/UNLOADING, PPE, STAYING HYDRATED
		08:00 - 10:30	2.50	BEGIN MOVING TO BDU 1835-102G, NO HIGH LINES IN OUR PATH. DERRICK LEFT LOCATION @ 10:00 AM. EVERYTHING WAS OFF LOCATION BY 10:30 10:30 HOURS SAFETY BREAK: DISCUSSED REFRESHER ON SAFETY REQUIREMENTS FOR DRIVERS AND RIG HANDS. REMINDED TRUCKERS TO USE SPOTTERS WHILE BACKING
		10:30 - 13:30	3.00	MOVE IN AND RIG UP. DERRICK UP @ 11:45. NOTE: INFORMED ED MARTIN WITH NOMCD OF OUR FUTURE SPUD AND CASING RUN @ 13:30 HOURS MIX SPUD MUD, MAKE UP BIT, AND STRAP BHA. 13:00 HOURS RIG 100% ON LOCATION ACCEPTED RIG @ 13:30 HOURS 14:00 HOURS SAFETY BREAK: DISCUSSED HYDRATION, RIGGING UP, AND WEARING PROPER PPE WHILE MIXING MUD
		13:30 - 15:00	1.50	CONTINUE TO MIX SPUD MUD, STRAP BHA, AND GET READY TO SPUD IN.
		15:00 - 19:00	4.00	DRILL 12.25" SURFACE HOLE FROM GL TO 370', CUT 370' AVG 92.5 FPH CIRC STEEL PITS TO 150', RET TO RESERVE, 75 RPM, 25K WOB, 340 GPM. 700 PSI PUMP PRES. MW 8.5 VIS 38 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
		19:00 - 23:00	4.00	DRILL 12.25" SURFACE HOLE FROM 370' TO 600', CUT 230' AVG 58 FPH CIRC RESERVE, 75 RPM, 40K WOB, 340 GPM. 988 PSI PUMP PRES. MW 8.5 VIS 38 SURVEY @ 400' = 50' DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
		23:00 - 00:00	1.00	DRILL 12.25" SURFACE HOLE FROM 600' TO 662', CUT 62' AVG 62 FPH CIRC RESERVE, SWITCH TO STEEL PITS AT 650', 68 RPM, 50K WOB, 340 GPM. 981 PSI PUMP PRES. MW 8.5 VIS 38 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
3	09/03/2011	00:00 - 02:30	2.50	DRILL 12.25" SURFACE HOLE FROM 662' TO 790', CUT 128' AVG 51 FPH CIRC STEEL PITS, 68 RPM, 50K WOB, 340 GPM. 970 PSI PUMP PRES. MW 8.5 VIS 38 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
		02:30 - 03:00	0.50	CIRCULATE 2X BOTTOMS UP TO CONDITION HOLE FOR 8.625" CSG
		03:00 - 04:30	1.50	DROP TOTCO AND TOH TO RUN 8.625" CSG
		04:30 - 05:00	0.50	RIG UP CRT TO RUN 8.625" CSG
		05:00 - 07:00	2.00	PJSM - RIG UP & RUN 18 JTS: 8 5/8", 24#, J-55, ST & C, SURFACE CASING: 1 - 8 5/8" TEXAS PATTERN SHOE - .50' 1 - SHOE JOINT 1 - INSERT FLOAT
		07:00 - 08:00	1.00	ENCOUNTERED FILL @ 770'. WASHED DOWN TO BOTTOM. CIRCULATED 2X BOTTOMS UP PJSM WITH HALLIBURTON AND RIG CREW.

Operation Summary Report

Well: BRAVO DOME UNIT 1835 102G Event Name: DEV DRILLING
 Project: BRAVO DOME Prim. Reason: ORIG DRILL VERT
 Site: BRAVO DOME C02 UNIT Start Date: 9/1/2011
 End Date: 9/5/2011 Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
		08:00 - 09:00	1.00	RIG UP CEMENTERS PUMP SURFACE CEMENT AS FOLLOWS. PUMP A 20 BBL FRESH WATER SPACER - PUMP RATE = 5 BBL/MIN PUMPED 120 BBLS (500 SACKS) OF 14.8 PPG PREMIUM PLUS CEMENT - 2% CaCl2 - 0.25 lbm/sk Poly-E-Flake - YIELD: 1.35 CUFT/SACK - PUMP RATE = 6 BBL/MIN - PRESSURE = 140 PSI DISPLACED WITH 46 BBLS OF FRESH WATER - PUMP RATE = 5.5 BBL/MIN - PRESSURE = 302 PSI - FINAL @ 2BPM = 302 PSI BUMPED PLUG @ 09:01 AND PRESSURED UP TO 640 PSI HELD FOR 5 MIN. GOT BACK .5 BBL TO TRUCK FLOATS HELD. FULL RETURNS THROUGHOUT JOB GOT BACK 46 BBL (192 SKS) TO SURFACE.
		09:00 - 09:30	0.50	RIG DOWN CEMENTERS.
		09:30 - 13:00	3.50	WOC 4 HRS. BEFORE NIPPLE UP CLEAN PITS AND MIX MUD WHILE WAITING. SAFETY BREAK: DISCUSSED TRIPPING IN THE HOLE.
		13:00 - 16:00	3.00	N/U BOP AND MU TEST PLUG TO 5.5" CASING, JT. TEST BOP TO 250 PSI LO, 1000 PSI HI. GOOD TEST.
		16:00 - 18:30	2.50	MAKE UP 7 7/8" PRODUCTION ASSEMBLY AND TRIP IN THE HOLE TO TOP OF CEMENT @ 739'. DRILL TO FLOAT AND PRESSURE TEST CSG TO 1000 PSI FOR 30 MINUTES. INSTALLED STRIPPING RUBBER
		18:30 - 19:00	0.50	DRILL OUT FLOAT AND CEMENT
		19:00 - 23:00	4.00	DRILL 7.875" SURFACE HOLE FROM 790' TO 1040', CUT 250', AVG 63' FPH CIRC STEEL PITS, 75 RPM, 35K WOB, 340 GPM. 1015 PSI PUMP PRES. MW 8.5 VIS 38 DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		23:00 - 00:00	1.00	DRILL 7.875" SURFACE HOLE FROM 1040' TO 1113', CUT 73', AVG 73' FPH CIRC STEEL PITS, 75 RPM, 30K WOB, 340 GPM. 1045 PSI PUMP PRES. MW 9.0 VIS 45 DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
4	09/04/2011	00:00 - 04:00	4.00	DRILL 7.875" PRODUCTION HOLE FROM 1113' TO 1262', CUT 149', AVG 37' FPH CIRC STEEL PITS, 75 RPM, 30K WOB, 340 GPM. 1045 PSI PUMP PRES. MW 9.1 VIS 46 DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		04:00 - 06:00	2.00	DRILL 7.875" PRODUCTION HOLE 1262' TO 1350', CUT 88', AVG 44' FPH CIRC STEEL PITS, 75 RPM, 30K WOB, 340 GPM. 1045 PSI PUMP PRES. MW 9.1 VIS 46 DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		06:00 - 10:30	4.50	DRILL 7.875" PRODUCTION HOLE 1350' TO 1600', CUT 250', AVG 55' FPH CIRC STEEL PITS, 75 RPM, 30/40K WOB, 340 GPM. 1100 PSI PUMP PRES. MW 9.1 VIS 46 SWITCHED TO RESERVE PIT @ 1500' DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		10:30 - 11:00	0.50	LUBE RIG

Operation Summary Report

Well: BRAVO DOME UNIT 1835 102G
 Project: BRAVO DOME
 Site: BRAVO DOME C02 UNIT

Event Name: DEV DRILLING
 Prim. Reason: ORIG DRILL VERT
 Start Date: 9/1/2011
 End Date: 9/5/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
		11:00 - 15:00	4.00	DRILL 7.875" PRODUCTION HOLE 1600' TO 1910', CUT 310', AVG 78' FPH CIRC RESERVE PIT, 75 RPM, 30/40K WOB, 340 GPM. 1150 PSI PUMP PRES. MW 9.1 VIS 40 SURVEY @ 1764=1.25° NOTE: IDENTIFIED TOP OF CIMARRON@ 2070' ALL THE WAY TO DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		15:00 - 19:00	4.00	DRILL 7.875" PRODUCTION HOLE 1910' TO 2124', CUT 214', AVG 53' FPH CIRC STEEL PITS, 75 RPM, 30/40K WOB, 340 GPM. 1238 PSI PUMP PRES. MW 9.0 VIS 42 NOTE: IDENTIFIED TOP OF CIMARRON@ 2068' - 2084' DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		19:00 - 21:30	2.50	DRILL 7.875" PRODUCTION HOLE 2124' TO 2235', CUT 111', AVG 44' FPH CIRC STEEL PITS, 75 RPM, 30/40K WOB, 340 GPM. 1238 PSI PUMP PRES. MW 9.0 VIS 44 DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		21:30 - 22:00	0.50	CIRCULATE 2X BTM UP TO CONDITION HOLE FOR 5.5" PRODUCTION CASING
		22:00 - 00:00	2.00	TOH TO RUN 5.5" CASING
5	09/05/2011	00:00 - 00:30	0.50	FINISH TOH TO RUN 5.5" CASING SURVEY @ 2235 = 1.5°
		00:30 - 01:30	1.00	REMOVE STRIPPING RUBBER, ROPE PIPE AND RIG UP CRT
		01:30 - 04:00	2.50	RIG UP AND RUN 56 JTS OF 5.5", 15.5#, J-55, LTC PROD CASING RUN PIPE BOOM JAWS WITH 800-850 PSI HYD PRESS. (700 TO 1000 PSI ALLOWABLE) <div style="display: flex; justify-content: space-between;"> <div> SET DEPTH GUIDE SHOE.....2227' SHOE JT2226' </div> <div> SET DEPTH INSERT FLOAT.....2216' 56 JTS CASING.....2216' </div> </div>
		04:00 - 04:30	0.50	RIG UP HALLIBURTON CEMENT HEAD, AND CIRC 2X BOTTOMS UP PJSM WITH HALLIBURTON AND RIG CREW.
		04:30 - 06:00	1.50	PUMPED CEMENT JOB AS FOLLOWS: - 20 BBL FRESH WATER SPACER AT 5.5 BBL/MIN AND 175 PSI - 202.5 BBL OF PREMIUM PLUS MIDCON 2 W/2% CC, LEAD CEMENT - 11.1 PPG - YIELD = 3.25 CUFT/SACK - .25 LBM POLY-E-FLAKE - PUMP RATE = 8 BBL/MIN - PUMP PRESSURE = 350 PSI - 49.4 OF PREMIUM PLUS MIDCON W/2% CC - 13.2 PPG - YIELD = 1.85 CUFT/SACK - .25 LBM POLY-E-FLAKE - PUMP RATE = 8 BBL/MIN - PUMP PRESSURE = 200 PSI - DISPLACE WITH 52.5 BBL OF FRESH WATER BUMPED PLUG AT 1050 PSI RETURNED 0.5 BBL TO TRUCK, FLOAT HELD CIRCULATED 140 BBL (242 SKS) TO SURFACE RIG DOWN HALLIBURTON
		06:00 - 08:30	2.50	BACKED OUT LANDING JOINT NIPPLE DOWN BOP, AND JET PITS RELEASE RIG TO THE BDU 1935-332J @ 08:30 HOURS