

30-059-20544

OXY USA INC

Operation Summary Report

Well: BRAVO DOME UNIT 1935 332J

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 9/5/2011

End Date: 9/9/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
1	09/05/2011	08:30 - 00:00	15.50	WAIT ON TRUCKS. NO RIG MOVES ON PUBLIC ROADS ON HOLIDAYS. FINISHED RIGGING DOWN AT 15:00
2	09/06/2011	00:00 - 07:30	7.50	WAIT ON TRUCKS
		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 - 10:00	2.00	BEGIN MOVING TO BDU 1935-332J, NO HIGH LINES IN OUR PATH. DERRICK LEFT LOCATION @ 10:00 AM. EVERYTHING WAS OFF LOCATION BY 10:00 10:00 HOURS SAFETY BREAK. DISCUSSED REFRESHER ON SAFETY REQUIREMENTS FOR DRIVERS AND RIG HANDS. REMINDED TRUCKERS TO USE SPOTTERS WHILE BACKING
		10:00 - 14:00	4.00	MOVE IN AND RIG UP. DERRICK UP @ 11:00 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. 12:00 HOURS RIG 100% ON LOCATION ACCEPTED RIG @ 13:00 HOURS 14:00 HOURS SAFETY BREAK: DISCUSSED HYDRATION, RIGGING UP, AND WEARING PROPER PPE WHILE MIXING MUD
		14:00 - 18:00	4.00	DRILL 12.25" SURFACE HOLE FROM GL TO 360', CUT 360' AVG 90' FPH CIRC STEEL PITS TO 150', RET TO RESERVE, 75 RPM, 25K WOB, 340 GPM, 850 PSI PUMP PRES. MW 8.5 VIS 38 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
		18:00 - 22:00	4.00	DRILL 12.25" SURFACE HOLE FROM 360' TO 583', CUT 223' AVG 56' FPH CIRC RESERVE, 75 RPM, 25K WOB, 340 GPM, 850 PSI PUMP PRES. MW 8.5 VIS 38 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
		22:00 - 00:00	2.00	DRILL 12.25" SURFACE HOLE FROM 583' TO 727', CUT 144' AVG 72' FPH CIRC RESERVE, 75 RPM, 25K WOB, 340 GPM, 850 PSI PUMP PRES. MW 8.5 VIS 38 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
3	09/07/2011	00:00 - 00:30	0.50	DRILL 12.25" SURFACE HOLE FROM 727' TO 753', CUT 26' AVG 52' FPH CIRC RESERVE, 75 RPM, 25K WOB, 340 GPM, 850 PSI PUMP PRES. MW 8.9 VIS 38 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
		00:30 - 01:30	1.00	PARTIAL LOSSES AT 753', PICKED UP OFF BTM AND DUMPED DRILLING PAPER AND CEDAR FIBER AT SUCTION WHILE MIXING A 40 BBL 10 PPG LCM PILL, GOT RETURNS BACK AND RESUMED DRILLING
		01:30 - 02:00	0.50	DRILL 12.25" SURFACE HOLE FROM 753' TO 778', CUT 25' AVG 50' FPH CIRC RESERVE, 75 RPM, 25K WOB, 340 GPM, 850 PSI PUMP PRES. MW 9.1 VIS 41 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
		02:00 - 02:30	0.50	PUMP A SWEEP AND CIRCULATE 2X BTM UP TO CONDITION HOLE FOR 8.625" CSG
		02:30 - 04:00	1.50	DROP TOTCO AND TOH FOR 8.625" SURFACE CSG
		04:00 - 04:30	0.50	RIG UP CRT FOR CASING RUN AND ROLL PIPE
		04:30 - 07:00	2.50	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 - 07:30	0.50	RIG DOWN CRT AND MAKE UP LANDING JOINT AND LAND CASING @ 771.79'
		07:30 - 08:00	0.50	RIG HALLIBURTON, AND CIRC. 2X BOTTOMS UP. PJSM WITH HALLIBURTON AND RIG CREW.

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#	Date	Time Start-End	Hrs	Op/Details
		08:00 - 09:30	1.50	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% CaCl ₂ - 0.25 lbm/sk Poly-E-Flake - YIELD: 1.35 CUFT/SACK - PUMP RATE = 6 BBL/MIN - PRESSURE = 200 PSI DISPLACED WITH 46 BBLs OF FRESH WATER - PUMP RATE = 5.5 BBL/MIN - PRESSURE = 300 PSI - FINAL @ 2BPM = 300 PSI BUMPED PLUG @ 09:02 AND PRESSURED UP TO 590 PSI HELD FOR 5 MIN. GOT BACK .5 BBL TO TRUCK FLOATS HELD. FULL RETURNS THROUGHOUT JOB GOT BACK 45 BBL (187 SKS) TO SURFACE.
		09:30 - 13:00	3.50	WOC 4 HRS BEFORE NIPPLE UP. JET CELLAR, AND CLEAN PITS. MIX MUD IN PREMIX FOR MUD UP.
		13:00 - 16:30	3.50	N/U BOP AND MU TEST PLUG TO 5.5" CASING JT.
		16:30 - 17:00	0.50	TEST BOP TO 250 PSI LO, 1000 PSI HI @ 5 MINUTES EACH. GOOD TEST.
		17:00 - 18:30	1.50	TIH TO TOC @ 730'. INSTALL STRIPPING RUBBER.
		18:30 - 19:30	1.00	PRESSURE TEST CASING TO 1000 PSI FOR 30 MINUTES. TEST GOOD. DRILL OUT CMT
		19:30 - 23:00	3.50	DRILL 7.875" PRODUCTION HOLE FROM 778' TO 980', CUT 202', AVG 58' FPH CIRC STEEL PITS, 75 RPM, 35K WOB, 340 GPM. 1015 PSI PUMP PRES. MW 8.5 VIS 40 DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		23:00 - 00:00	1.00	DRILL 7.875" PRODUCTION HOLE FROM 980' TO 1068', CUT 88', AVG 88' FPH CIRC STEEL PITS, 75 RPM, 35K WOB, 340 GPM. 1015 PSI PUMP PRES. MW 9.0 VIS 52 DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
4	09/08/2011	00:00 - 04:00	4.00	DRILL 7.875" PRODUCTION HOLE FROM 1068' TO 1236', CUT 168', AVG 42 FPH CIRC STEEL PITS, 75 RPM, 30K WOB, 340 GPM. 1054 PSI PUMP PRES. MW 9.0 VIS 47 DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		04:00 - 08:00	4.00	DRILL 7.875" PRODUCTION HOLE FROM 1236' TO 1400', CUT 164', AVG 41 FPH CIRC STEEL PITS, 75 RPM, 30K WOB, 340 GPM. 1071 PSI PUMP PRES. MW 9.0 VIS 47 DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		08:00 - 12:00	4.00	DRILL 7.875" PRODUCTION HOLE FROM 1400' TO 1635', CUT 235', AVG 59 FPH CIRC RESERVE, 75 RPM, 30K WOB, 340 GPM. 1071 PSI PUMP PRES. DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		12:00 - 16:00	4.00	SAFETY BREAK: COMMUNICATIONS. CAUTION AROUND RIG FLOOR. DRILL 7.875" PRODUCTION HOLE FROM 1635' TO 1912', CUT 277', AVG 70 FPH RET TO STEEL PITS AT 1800', 75 RPM, 30K WOB, 340 GPM. 1100 PSI PUMP PRES. DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED SAFETY BREAK: JSA HANDLING BHA, MIXING CHEMICALS, SERVICING SUMP PUMP, LOTO
		16:00 - 16:30	0.50	SERVICE RIG
		16:30 - 20:30	4.00	DRILL 7.875" PRODUCTION HOLE FROM 1912' TO 2105', CUT 193', AVG 48' FPH CIRC RESERVE, 75 RPM, 30K WOB, 340 GPM. 1200 PSI PUMP PRES. DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED CIMARRON 2020' TO 2039' SAFETY BREAK: JSA HANDLING TUBULARS, LAYING DOWN PIPE.

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		20:30 - 23:00	2.50	DRILL 7.875" PRODUCTION HOLE FROM 2105" TO 2224', CUT 119', AVG 48' FPH. CIRC RESERVE, 75 RPM, 30K WOB, 340 GPM, 1250 PSI PUMP PRES. DROP SWEEP STICKS 3RD EVERY CONNECTION & PUMP SWEEP AS NEEDED
		23:00 - 23:30	0.50	PUMP HI VIS SWEEP, CIRCULATE HOLE CLEAN. SAFETY BREAK: JSA PROPER PPE, TRIPPING PIPE
		23:30 - 00:00	0.50	TRIP OUT OF THE HOLE PULLED CLEAN, TAKING PROPER FILL
5	09/09/2011	00:00 - 02:00	2.00	TRIP OUT OF THE HOLE PULLED CLEAN, TAKING PROPER FILL
		02:00 - 03:00	1.00	RU CRT, REMOVE ROTATING RUBBER SAFETY BREAK: JSA RUNNING CASING, ROLLING PIPE
		03:00 - 05:00	2.00	RUN 5.5", 15.5#, J-55, LTC PROD CASING SET DEPTH GUIDE SHOE.....2215' INSERT FLOAT.....2204' SHOE JT2214' 52 JTS CASING.....2204'
		05:00 - 06:00	1.00	DROP BALL, CIRC & COND HOLE. SIMOP: RU HALLIBURTON SAFETY BREAK: PJSM WITH HALLIBURON, RIG CREW, RM & DSM... JSA CEMENTING.
		06:00 - 07:00	1.00	CEMENT AS FOLLOWS: 20 BBL FRESH WATER SPACER 350 SACKS OF PREMIUM W/2% CACL, LEAD CEMENT - 11.1 PPG - YIELD = 3.25 CU FT/SACK - .25 LBM POLY-E-FLAKE 150 SACKS OF PREMIUM W/2% CACL - 13.2 PPG - YIELD = 1.85 CU FT/SACK - .25 LBM POLY-E-FLAKE BUMPED PLUG @ 06:42, CIRCULATED 232 SX, 134 BBLS TO SURFACE.
		07:00 - 07:30	0.50	RD HALLIBURTON
		07:30 - 10:00	2.50	WAIT ON CEMENT, CLEAN PITS, BEGIN RIG DOWN BACK OUT AND LD LANDING JOINT. ND. RELEASED RIG AT 10:00 HOURS TO BDU 1935-312J NOTIFIED ED MARTIN, NMOC, 11:00 HOURS, SUCCESSFUL COMPLETION OF BDU 1935-332J AND INTENT TO MOVE, SPUD AND CEMENT SURFACE ON BDU 1935-312L