

30-021-20517

No C103's

OCCIDENTAL PERMIAN LTD.

Operation Summary Report

Well: BRAVO DOME UNIT 1832 191G

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 6/24/2011

End Date: 6/28/2011

Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
1	06/24/2011	06:00 - 10:00	4.00	SAFETY MEETING WITH TRUCKS AND RIG CREW STARTED MOVING RIG TO LOCATION
		10:00 - 14:00	4.00	CONTINUED MOVING RIG TO LOCATION 85 % MOVED OVER 75% RIGGED UP SAFETY BREAK: WORKING IN HOT CONDITIONS / STAYING HYDRATED
		14:00 - 19:00	5.00	CONTINUED MOVING RIG DERRICK UP AT 14:30 RIG 100% ON LOCATION AT 19:00 95% RIGGED UP NOTIFIED ED MARTIN AT 17:00 ABOUT SPUDDING WELL SAFETY BREAK: SUSPENDED LOADS
		19:00 - 00:00	5.00	FINISHED RIGGING UP INSPECTED AND ACCEPTED RIG ON DAY WORK AT 00:00 100% RIGGED UP AT 00:00
2	06/25/2011	00:00 - 02:30	2.50	TIH, PICK UP BHA AS FOLLOWS: -12 1/4" TRI - CONE BIT, 3 -14 JETS - 1 - 8" DC - XO - 18 - 6.25' DC'S MIXED SPUD MUD
		02:30 - 04:30	2.00	SPUDED WELL AT 02:30 DRILLED 12 1/4" SURFACE HOLE FROM 0 TO 235' AVG. ROP = 117'/HR - PUMP RATE= 400 GPM - PUMP PRESSURE = 750 PSI - ROTARY = 130 - WOB = 2-8 - TORQUE ON BOTTOM = 1500 - TORQUE OFF BOTTOM = 1100 MUD WT = 9.0 PPG VIS 48 PUMP 10 BBLs SWEEPS EVERY 90' OR AS NEEDED SAFETY BREAK: DRILLING AND MAKING CONNECTIONS

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		04:30 - 06:00	1.50	SPUDDING WELL AT 02:30 DRILLED 12 1/4" SURFACE HOLE FROM 235' TO 415' AVG. ROP = 118'/HR - PUMP RATE = 400 GPM - PUMP PRESSURE = 750 PSI - ROTARY = 130 - WOB = 10-12 - TORQUE ON BOTTOM = 1700 - TORQUE OFF BOTTOM = 1100 MUD WT = 9.0 PPG VIS 48. PUMP 10 BBLs SWEEPS EVERY 90' OR AS NEEDED SAFETY BREAK: HOUSE CLEANING
		06:00 - 11:00	5.00	DRILLED 12 1/4" SURFACE HOLE FROM 415' TO 815' 400' @ 80 FT / HR. - PUMP RATE - 435 GPM - PUMP PRESSURE - 1000 PSI - ROTARY - 130 RPM - WOB - 15 - 30 K - TORQUE ON BOTTOM - 1700 FT/LB. - TORQUE OFF BOTTOM - 1100 FT/LB MUD WT = 9.0 PPG VIS 48 PUMP 10 BBLs SWEEPS EVERY 90' OR AS NEEDED SURVEY AT 470' = 1 DEG SAFETY BREAK: MIXING MUD & CHEMICALS
		11:00 - 12:00	1.00	PJSM - CIRCULATE & CONDITION HOLE FOR SURFACE CASING
		12:00 - 14:00	2.00	TOH WITH 12 1/4" BHA
		14:00 - 14:30	0.50	RIG UP CASING EQUIPMENT TO RUN 8 5/8" CASING
		14:30 - 16:30	2.00	PJSM - RUNNING 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 796'
		16:30 - 17:00	0.50	CIRCULATE HOLE
				HOLD PJSM - WITH HALLIBURTON AND RIG CREW FOR CEMENT JOB
		17:00 - 17:30	0.50	RIG UP CEMENTING HEAD AND EQUIPMENT

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		17:30 - 18:00	0.50	BREAK FORMATION WITH 20 BBLs OF FRESH WATER - PUMP RATE = 6 BBL/MIN PUMPED (600 SACKS) OF 14.8 PPG PREMIUM PLUS CEMENT - 2% CaCl ₂ - 0.125 lbm/sk Poly-E-Flake - YIELD: 1.35 CUFT/SACK - PUMP RATE = 6 BBL/MIN - PRESSURE = 178 PSI DISPLACED WITH 50 BBLs OF FRESH WATER - PUMP RATE = 6.5 BBL/MIN - PRESSURE = 250 PSI RETURNED 300 SACKS (72 BBLs) TO SURFACE PLUG DOWN AT 18:00 DID NOT BUMP PLUG / PUMPED 0.5 BBL OVER DISPLACEMENT, SHUT IN 5 MINUTES, CHECKED FLOAT AND FLOAT HELD
		18:00 - 19:00	1.00	RIG DOWN HALLIBURTON
		19:00 - 00:00	5.00	WOC 4 HRS, BACK OFF LANDING JT, START RIG UP BOP
3	06/26/2011	00:00 - 04:00	4.00	NIPPLE UP BOP, FILL UP PIT SAFETY BREAK: STOP WORK AUTHORITY
		04:00 - 06:00	2.00	TESTED BOP, TEST FAILED NIPPLED DOWN 9" BOP & CHANGE OUT WITH 11" 3,000# HYDRILL ANNULAR BOP
		06:00 - 11:00	5.00	NIPPLE UP & TEST 11" BOP
		11:00 - 13:00	2.00	MADE UP NEW 7 7/8" BIT AS FOLLOWS: - 7 7/8" VAREL TRI-CONE BIT - FLOAT SUB WITH FLOAT AND CROWFOOT - 18 - 6" DRILL COLLARS T I H & TAG CEMENT @ 746'
		13:00 - 13:30	0.50	CLOSED ANNULAR & TESTED CASING TO 1,000 PSI. GOOD TEST
		13:30 - 14:00	0.50	DRILLED CEMENT & FLOAT EQUIPT. FROM 746' TO 815'
		14:00 - 18:00	4.00	DRILLED 7 7/8" PRODUCTION HOLE FROM 815' TO 1140' 394' @ 98 FT / HR. - PUMP RATE - 435 GPM - PUMP PRESSURE - 1000 PSI - ROTARY - 100 RPM - WOB - 25-30 K - TORQUE ON BOTTOM - 1200 FT/LB. - TORQUE OFF BOTTOM - 1100 FT/LB MUD WT = 8.5 PPG VIS 48 PUMP 10 BBLs SWEEPS EVERY 90' OR AS NEEDED SAFETY BREAK: MAKING CONNECTIONS
		18:00 - 20:00	2.00	DRILLED 7 7/8" PRODUCTION HOLE FROM 1140' TO 1307' 167' @ 84 FT / HR. - PUMP RATE - 435 GPM - PUMP PRESSURE - 1000 PSI - ROTARY - 100 RPM - WOB - 25-30 K - TORQUE ON BOTTOM - 1200 FT/LB. - TORQUE OFF BOTTOM - 1100 FT/LB MUD WT = 8.5 PPG VIS 48 PUMP 10 BBLs SWEEPS EVERY 90' OR AS NEEDED SAFETY BREAK: STAYING HYDRATED

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Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
		20:00 - 20:30	0.50	WIRELINE SURVEY @ 1278' 2.500 DEGREE
		20:30 - 00:00	3.50	DRILLED 7 7/8" PRODUCTION HOLE FROM 1307' TO 1474' 167' @ 48 FT / HR.
				- PUMP RATE - 435 GPM - PUMP PRESSURE - 1000 PSI - ROTARY - 110 RPM - WOB - 20-25 K - TORQUE ON BOTTOM - 1200 FT/LB. - TORQUE OFF BOTTOM - 1100 FT/LB
				MUD WT = 8.5 PPG VIS 48 PUMP 10 BBLS SWEEPS EVERY 90' OR AS NEEDED
				SAFETY BREAK: MEET AND GREET
4	06/27/2011	00:00 - 02:00	2.00	DRILLED 7 7/8" PRODUCTION HOLE FROM 1474' TO 1558' 84' @ 42 FT / HR.
				- PUMP RATE - 435 GPM - PUMP PRESSURE - 1000 PSI - ROTARY - 100 RPM - WOB - 20-25 K - TORQUE ON BOTTOM - 1200 FT/LB. - TORQUE OFF BOTTOM - 1100 FT/LB
				MUD WT = 8.5 PPG VIS 48 PUMP 10 BBLS SWEEPS EVERY 90' OR AS NEEDED
				SAFETY BREAK: HAND RAIL SAFETY
		02:00 - 02:30	0.50	WIRELINE SURVEY @ 1528' = 1.5 DEGREE
		02:30 - 06:00	3.50	DRILLED 7 7/8" PRODUCTION HOLE FROM 1558' TO 1755' 197' @ 57 FT / HR.
				- PUMP RATE - 435 GPM - PUMP PRESSURE - 1000 PSI - ROTARY - 100 RPM - WOB - 20-25 K - TORQUE ON BOTTOM - 1200 FT/LB. - TORQUE OFF BOTTOM - 1100 FT/LB
				MUD WT = 8.5 PPG VIS 48 PUMP 10 BBLS SWEEPS EVERY 90' OR AS NEEDED
				SAFETY BREAK: HOUSE CLEANING
		06:00 - 10:00	4.00	DRILLED 7 7/8" PRODUCTION HOLE FROM 1755' TO 1992' 237' @ 60 FT / HR.
				- PUMP RATE - 435 GPM - PUMP PRESSURE - 1000 PSI - ROTARY - 100 RPM - WOB - 20-25 K - TORQUE ON BOTTOM - 1200 FT/LB. - TORQUE OFF BOTTOM - 1100 FT/LB
				MUD WT = 8.5 PPG VIS 48 PUMP 10 BBLS SWEEPS EVERY 90' OR AS NEEDED
				SAFETY BREAK: STOP WORK AUTHORITY
		10:00 - 10:30	0.50	WIRELINE SURVEY @ 2022' = 1.25 DEG

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		10:30 - 14:00	3.50	DRILLED 7 7/8" PRODUCTION HOLE FROM 1992' TO 2140' 148' @ 42 FT / HR. - PUMP RATE - 435 GPM - PUMP PRESSURE - 1000 PSI - ROTARY - 100 RPM - WOB - 20-25 K - TORQUE ON BOTTOM - 1200 FT/LB. - TORQUE OFF BOTTOM - 1100 FT/LB MUD WT = 8.5 PPG VIS 48 PUMP 10 BBLS SWEEPS EVERY 90' OR AS NEEDED SAFETY BREAK: WORKING IN WINDY CONDITIONS
		14:00 - 16:30	2.50	DRILLED 7 7/8" PRODUCTION HOLE FROM 2140' TO 2210' 70' @ 28 FT / HR. - PUMP RATE - 435 GPM - PUMP PRESSURE - 1000 PSI - ROTARY - 100 RPM - WOB - 20-25 K - TORQUE ON BOTTOM - 1200 FT/LB. - TORQUE OFF BOTTOM - 1100 FT/LB MUD WT = 8.5 PPG VIS 48 PUMP 10 BBLS SWEEPS EVERY 90' OR AS NEEDED SAFETY BREAK: FORKLIFT SAFETY
		16:30 - 17:30	1.00	WAITING TO HEAR FROM GEOLOGIST
		17:30 - 19:30	2.00	DRILLED 7 7/8" PRODUCTION HOLE FROM 2210' TO 2260' 50' @ 25FT / HR. - PUMP RATE - 435 GPM - PUMP PRESSURE - 1000 PSI - ROTARY - 100 RPM - WOB - 20-25 K - TORQUE ON BOTTOM - 1200 FT/LB. - TORQUE OFF BOTTOM - 1100 FT/LB MUD WT = 8.5 PPG VIS 48 PUMP 10 BBLS SWEEPS EVERY 90' OR AS NEEDED TOP OF CIMMARRON = 2220' BOTTOM OF CIMARRON = 2240' TD = 2260' SAFETY BREAK: TRIPPING PIPE
		19:30 - 22:00	2.50	CONDITION HOLE TO LOG
		22:00 - 00:00	2.00	TRIP OUT TO LOG, WIRELINE SURVEY @ 2230' = 1.000' DEG
5	06/28/2011	00:00 - 03:00	3.00	UNSURE OF TOP OF CIMMARRON PICK. DECISION MADE IN TOWN TO RUN GR LOG FOR CONFIRMATION RIG UP AND LOG 5 1/2 PRODUCTION HOLE, RIG DOWN, EMAIL DATA TOP OF CIMMARRON BY WIRELINE 2206' BOTTOM - 2227' TD - 2252' TOP OF CIMMARRON BY DRILL PIPE 2220' BOTTOM - 2240' TD - 2260'

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		03:00 - 06:00	3.00	SAFETY MEETING WITH RIG CREW TO RUN CASING RUN 5 1/2" PRODUCTION CASING TO 2254' - TEXAS PATTERN SHOE - 10' SHOE JOINT - INSERT FLOAT - 56 JTS OF 5 1/2" 15.5# J-55 LTC
		06:00 - 07:00	1.00	SAFETY MEETING WITH HALLIBURTON RIG UP CEMENTING HEAD AND EQUIPMENT
		07:00 - 08:00	1.00	PUMPED CEMENT JOB AS FOLLOWS: - 20 BBL FRESH WATER SPACER AT 5 BBL/MIN AND 175 PSI - 300 SACKS 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 = 5.5 BBL/MIN - PUMP PRESSURE = 220 PSI - 150 SACKS OF PREMIUM PLUS MIDCON W/2% CC - 13.2 PPG - YIELD = 1.85 CUFT/SACK - .25 LBM POLY-E-FLAKE - PUMP RATE = 5.5 BBL/MIN - PUMP PRESSURE = 100 PSI - DISPLACE WITH 53 BBLS OF FRESH WATER BUMPED PLUG AT 1014 PSI CIRCULATED 144 SACKS TO SURFACE
		08:00 - 12:00	4.00	WOC WHILE WOC CLEAN PITS SAFETY BREAK STOP WORK AUTHORITY
		12:00 - 18:00	6.00	RIG DOWN BOP RIG DOWN RIG AND EQUIPMENT PREPARE TO MOVE TO NEW LOCATION RELEASE RIG AT 18:00