

30-021-20518

OXY USA INC

## Operation Summary Report

Well: BRAVO DOME UNIT 1833 071G

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 6/28/2011

End Date: 7/4/2011

Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
1	06/28/2011	18:00 - 00:00	6.00	RIGGING DOWN TO MOVE TO BDU 1833-071G  100% RIG DOWN  SAFETY BREAK: BUFFER ZONES
2	06/29/2011	00:00 - 06:00	6.00	WAITING ON TRUCKS AND DAYLIGHT TO MOVE RIG  TRUCKS WILL BE ON LOCATION AT 07:00
		06:00 - 10:00	4.00	SAFETY MEETING WITH TRUCKING CO. AND RIG CREW  STARTED MOVING RIG TO NEXT LOCATION
		10:00 - 14:00	4.00	CONTINUED MOVING RIG TO LOCATION 30% MOVED OVER  SAFETY BREAK: WORKING IN HOT CONDITIONS / STAYING HYDRATED
		14:00 - 18:00	4.00	CONTINUED MOVING RIG TO LOCATION 80% MOVED OVER  SAFETY BREAK: WORKING IN HOT CONDITIONS / STAYING HYDRATED
		18:00 - 23:00	5.00	CONTINUED MOVING RIG TO LOCATION 100% MOVED OVER  FINISHED RIGGING UP
		23:00 - 00:00	1.00	MIXING MUD & CUT OUT TIN HORN FOR FLOW
3	06/30/2011	00:00 - 00:30	0.50	FINISHED MIXING MUD INSPECTED AND ACCEPTED RIG ON DAY WORK AT 12:30 AM PRE SPUD SAFETY MEETING PICK-UP BHA AS FOLLOWS  - 12 1/4 TRI CONE BIT, 3-14 JETS - 1-8" DC - XO - 18 - 6.25' DC'S
		00:30 - 05:30	5.00	SPUDDING WELL AT 12:30 AM  DRILLED 12 1/4" SURFACE HOLE FROM 0 TO 600" 600' FT, AVG. ROP = 120'/HR  - PUMP RATE = 400 GPM - PUMP PRESSURE = 750 PSI - ROTARY = 130 - WOB = 8-15 - TORQUE ON BOTTOM = 1500 - TORQUE OFF BOTTOM = 1100  MUD WT = 9.0 PPG VIS 48 PUMP 10 BBLs SWEEPS EVERY 200" OR AS NEEDED  SAFETY BREAK: DRILLING AND MAKING CONNECTIONS SPUDDING WELL AT 12:30 AM
		05:30 - 06:00	0.50	WIRELINE SURVEY @ 497" = 500 DEGREE

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		06:00 - 08:00	2.00	DRILLED 12-1/4" SURFACE HOLE FROM 600' TO 682' 82' FT, AVG. ROP = 41'/HR  - PUMP RATE= 400 GPM - PUMP PRESSURE = 850 PSI - ROTARY = 130 - WOB = 10-18 - TORQUE ON BOTTOM = 2500 - TORQUE OFF BOTTOM = 850  BACK REAMER EACH JTS.  MUD WT = 8.6PPG VIS 35 PUMP 10 BBLs SWEEPS EVERY 200' OR AS NEEDED  SAFETY BREAK: WORKING IN HOT CONDITIONS / STAYING HYDRATED
		08:00 - 09:00	1.00	REPACK SWIVEL ON TOP DRIVE, SERVICE RIG
		09:00 - 11:30	2.50	DRILLED 12 1/4" SURFACE HOLE FROM 682' TO 808', TD SURFACE HOLE 126' FT, AVG. ROP = 50'/HR  - PUMP RATE= 400 GPM - PUMP PRESSURE = 900 PSI - ROTARY = 130 - WOB = 10-18 - TORQUE ON BOTTOM = 2500 - TORQUE OFF BOTTOM = 700  MUD WT = 8.7 PPG VIS 36 PUMP 10 BBLs SWEEPS EVERY 200' OR AS NEEDED  SAFETY BREAK: BUFFER ZONE
		11:30 - 12:00	0.50	CONDITION & CIRCULATE HOLE TO RUN 8 5/8 SURFACE CASING
		12:00 - 14:00	2.00	DROP TOTCO TOOL FOR SURVEY PJSM- TOH TO RUN 8 5/8 SURFACE CASING
		14:00 - 16:00	2.00	PJSM - RIG UP & RUN 18 JTS. 8 5/8, 24#, J-55, ST & C, SURFACE CASING  1 - 8 5/8 TEXAS PATTEN SHOE 1 - SHOE JOINT 1 - INSERT FLOAT
		16:00 - 16:30	0.50	RIG DOWN CASING EQUIPMENT  CIRCULATE  SAFETY MEETING WITH HALLIBURTON RIG UP HALLIBURTON FOR CEMENT JOB
		16:30 - 17:30	1.00	PUMED 144 BBLs(600 SACKS) OF 14.8 PPG PREMIUM PLUS CEMENT. DROP PLUG, DISPLACE 55 BBLs, BUMPED PLUG @2 BBLs/MIN @ 295 PSI PRESSURE UP 550 PSI HELD 10 MIN., FLOAT HELD -2% CaCl2 -0.25 lbm/sk Poly-E-Flake -YIELD: 1.35 CUFT/SACK FULL RETURNS THROUGHOUT JOB GOT CEMENT BACK TO TOP (55BBLs)
		17:30 - 22:00	4.50	WAIT ON CEMENT TO CURE
		22:00 - 00:00	2.00	BACK OUT LANDING JOINT INSTALL WELL HEAD INSTALL FLANGE, VALVE, AND LINES TO CIRCULATE TO PIT OFF OF WELL HEAD INSTALL 3000 BOP.
4	07/01/2011	00:00 - 05:00	5.00	R/U BOP - R/U MANDREL LANDING JOINT AND TEST BOP TO 1,000# FOR 30 MIN - R/U RISER AND FLOWLINE
		05:00 - 06:00	1.00	SAFETY MEETING WITH RIG CREW  TIH, AND PICK BHA - 7 7/8 TRI-CONE BIT VARVEL - FLOAT AND CROW FOOT - 6 1/2 DRILL COLLARS - 19 ( 589)

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Start Date: 6/28/2011

End Date: 7/4/2011

Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
		06:00 - 06:30	0.50	TIH TAG CEMENT @ 720'
		06:30 - 07:00	0.50	FILL PIPE - CLOSE ANNULAR
		07:00 - 07:30	0.50	TEST CASING TO 1000# PSI 30 MINUTES TEST GOOD
		07:30 - 09:00	1.50	DRILL OUT CEMENT AND PLUG
		09:00 - 10:00	1.00	DRILLED 7 7/8" PRODUCTION HOLE FROM 808' TO 923' 115 FT, AVG. ROP = 115 FT/HR  - PUMP RATE= 400 GPM - PUMP PRESSURE = 1000 PSI - ROTARY = 100 - 120 - WOB = 18- 22 - TORQUE ON BOTTOM = 2500 - TORQUE OFF BOTTOM = 2200  MUD WT = 8.8 PPG VIS 29 PUMP 10 BBLs SWEEPS EVERY 200' OR AS NEEDED  SAFETY BREAK: FORKLIFT SAFETY
		10:00 - 14:30	4.50	DRILLED 7 7/8" PRODUCTION HOLE FROM 923' TO 1293' 370 FT, AVG. ROP = 82 FT/HR  - PUMP RATE= 400 GPM - PUMP PRESSURE = 1000 PSI - ROTARY = 100 - 120 - WOB = 18- 22 - TORQUE ON BOTTOM = 2500 - TORQUE OFF BOTTOM = 2200  MUD WT = 8.7 PPG VIS 29 PUMP 10 BBLs SWEEPS EVERY 200' OR AS NEEDED  SAFETY BREAK: BUFFER ZONE
		14:30 - 15:00	0.50	PJSM - RUN WIRELINE SURVEY @ 1272' = 2.000 DEGREE
		15:00 - 20:30	5.50	DRILLED 7 7/8" PRODUCTION HOLE FROM 1293' TO 1614" 321 FT, AVG. ROP = 58 FT/HR  - PUMP RATE= 360 GPM - PUMP PRESSURE = 1000 PSI - ROTARY = 100 - 120 - WOB = 20 - 25 - TORQUE ON BOTTOM = 2500 - TORQUE OFF BOTTOM = 2200 - #1 PUMP DOWN SWITCH #2 PUMP  MUD WT = 8.7 PPG VIS 29 PUMP 10 BBLs SWEEPS EVERY 200' OR AS NEEDED  SAFETY BREAK: BUFFER ZONE
		20:30 - 21:00	0.50	PJSM - RUN WIRELINE SURVEY @ 1584' = 3.000 DEGREE
		21:00 - 00:00	3.00	STUCK AFTER SURVEY. CIRCULATES FINE WITH NO LOSSES OR PRESSURE SPIKES. WORKED PIPE FOR 1 HOUR. MAX PULL 90' OVER  SPOTTED HI-VIS PILL WITH NUT PLUG. PULL 50' OVER AND SET 70' ON BIT WHILE APPLYING 1 WRAP OF TORQUE.  DISPLACE HOLE WITH FRESH WATER WORKED PIPE FOR 1 HOUR WHILE PULLING 50' OVER AND SETTING 70' ON BIT WITH 1 - 1 1/2 WRAPS OF TORQUE.  PULL 50' OVER AND LET SET 5 MINUTES WITH TORQUE IN PIPE. SET AT STRING WEIGHT AND RELEASE TORQUE. SET 65' ON BIT AND LET SET 5 MINUTE WITH TORQUE IN PIPE. CONTINUE AND STROKE PUMP 10 STROKES WITH FRESH WATER EVERY 30 MINUTES.

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Start Date: 6/28/2011

End Date: 7/4/2011

Rig Name: TRINIDAD 216

#	Date	Time Start:End	Hrs	Op:Details
5	07/02/2011	00:00 - 06:00	6.00	STUCK AFTER SURVEY. CIRCULATES FINE WITH NO LOSSES OR PRESSURE SPIKES. SPOTTED 2 DIFFERENT PILLS AROUND COLLARS. NO SOLUTION CALL FOR WIRLINE TRUCK & FISHERMAN, WORKING PIPE, KICK IN PUMP EVERY 15 MIN. TO CIRC. PUMP  SAFETY BREAK: STAY OFF FLOOR WHILE WORKING PIPE
		06:00 - 10:30	4.50	WORK PIPE, KICK END EVERY 15 MIN TO CIRC. PUMP WAIT ON WIRELINE TRUCK & FISHERMAN  SAFETY BREAK: WEAR PROPER PPE
		10:30 - 11:00	0.50	UNLOADED AND SPOT PILL
		11:00 - 11:30	0.50	WORK PIPE FREE, CIRCULATED, BOTTOMS UP
		11:30 - 12:00	0.50	WORK ON MUD PUMP, AIR PUMP OUT
		12:00 - 12:30	0.50	CIRCULATED BOTTOMS UP
		12:30 - 22:00	9.50	DRILLED 7 7/8" PRODUCTION HOLE FROM 1614' TO 2079' 465 FT, AVG. ROP = 49 FT/HR  - PUMP RATE = 360 GPM - PUMP PRESSURE = 850 PSI - ROTARY = 100 - 120 - WOB = 25 - 28 - TORQUE ON BOTTOM = 2500 - TORQUE OFF BOTTOM = 2200  MUD WT = 8.7 PPG VIS 29 PUMP 10 BBLs SWEEPS EVERY 90' OR AS NEEDED  SAFETY BREAK: FORKLIFT SAFETY
		22:00 - 22:30	0.50	WIRELINE SURVEY 30' OFF BOTTOM
		22:30 - 23:30	1.00	STUCK PIPE AT 2049' SPOT 25 BBL FRESH WATER, WORK PIPE, GOT UNSTUCK
		23:30 - 00:00	0.50	WORK PIPE, 5 TO 10k OVER DRAG, PULL 100 BBL MUD TO PREMIX PIT, ADD 5 DRISPAC AND BLEED INTO SYSTEM.
6	07/03/2011	00:00 - 01:00	1.00	BACK REAM HOLE UNTIL DRAG DISSIPATES
		01:00 - 06:00	5.00	DRILLED 7 7/8" PRODUCTION HOLE FROM 2079' TO 2270' 191 FT, AVG. ROP = 38 FT/HR  - PUMP RATE = 360 GPM - PUMP PRESSURE = 875 PSI - ROTARY = 100 - 120 - WOB = 30 - 35 - TORQUE ON BOTTOM = 2500 - TORQUE OFF BOTTOM = 2200  MUD WT = 9.4 PPG VIS 34 PUMP 10 BBLs SWEEPS EVERY 90' OR AS NEEDED  SAFETY STAND DOWN: FROM ROB LOVELADY - HAMMER SLIPPED - MOVING EQUIPMENT - NIPPLING UP - DISCUSS PINCH POINT BUFFER ZONES

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		06:00 - 10:00	4.00	DRILLED 7 7/8" PRODUCTION HOLE FROM 2270' TO 2420' 150 FT, AVG. ROP = 38 FT/HR  - PUMP RATE= 360 GPM - PUMP PRESSURE = 890 PSI - ROTARY = 100 - 120 - WOB = 30 - TORQUE ON BOTTOM = 2700 - TORQUE OFF BOTTOM = 2500  MUD WT = 9.4 PPG VIS 34 PUMP 10 BBLs SWEEPS EVERY 90' OR AS NEEDED  SAFETY BREAK: PINCH POINT, STAY FOCUS
		10:00 - 14:00	4.00	DRILLED 7 7/8" PRODUCTION HOLE FROM 2420' TO 2523' 103 FT, AVG. ROP = 26 FT/HR ENCOUNTERED THE TOP OF THE CIMARRON AT 2430' THE TOP OF THE TUBB WAS AT 2453'  - PUMP RATE= 360 GPM - PUMP PRESSURE = 900 PSI - ROTARY = 100 - WOB = 30 - TORQUE ON BOTTOM = 2800 - TORQUE OFF BOTTOM = 2500  - PRIOR TO ENTER CIMARRON MUD CHECK - MUD WT = 9.3 PPG IN, 9.4 OUT VIS 28, 10 PH - KCL 7 % - TOP OF CIMARRON 2430' - TOP OF TUBB 2453'  PUMP 10 BBLs SWEEPS EVERY 90' OR AS NEEDED  SAFETY BREAK: WORKING IN HOT CONDITIONS / STAYING HYDRATED
		14:00 - 15:30	1.50	DRILLED 7 7/8" PRODUCTION HOLE FROM 2523' TO 2593' TO 70 FT, AVG. ROP = 47 FT/HR  - PUMP RATE= 360 GPM - PUMP PRESSURE = 900 PSI - ROTARY = 100 - WOB = 30 - 35 - TORQUE ON BOTTOM = 2800 - TORQUE OFF BOTTOM = 2500  - SAFETY STAND DOWN : FROM ROB LOVELADY - TRUCK DRIVER STEP OFF TRAILER FELL 3' TO 10' NO JSA STOP JOB AUTHORITY
		15:30 - 16:00	0.50	PUMP 30 BBLs SWEEPS CONDITION HOLE FOR TOOH
		16:00 - 19:00	3.00	SAFETY MEETING WITH WITH CREW ABOUT TOH, DROP SURVEY AND TOH.  TOH, FROM 2593'
		19:00 - 20:00	1.00	PULL ROTATING HEAD RUBBER, R/U TOP DRIVE, BALES AND ELEVATORS TO RUN PROD. CASING
		20:00 - 23:00	3.00	RUN GUIDE SHOE, SHOE JT, FLOAT INSERT, 67 JTS 5.5" PROD. CASING
		23:00 - 00:00	1.00	INSTALLED MANDREL FOR LANDING. TRIED TO GO TO BOTTOM TO LAND. ACTED LIKE FILL. PICKED UP CIRCULATING SUB FOR TOP DRIVE AND DISCOVERED STUCK PIPE AT 2570'. WORKED PIPE UP AND DOWN. 50K OVER AND 50K OVER GOING DOWN. WORKED PIPE 30 MINUTES. SPOTTED 50 BBL FRESH WATER IN ANNULAR. NO POSITIVE RESULTS. KEEP WORKING PIPE.
7	07/04/2011	00:00 - 06:00	6.00	WORKING STUCK 5.5" PROD CASING. SPOTTED PIPE LAX PILL. PULLING 100K OVER AND WORKING DOWN 50K.

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		06:00 - 10:30	4.50	WORKING STUCK 5.5' PROD CASING, KICK IN PUMP EVERY 15 MIN. , GOOD CIRCULATION, STUCK 5 1/2 CASING 15' OFF BOTTOM DEPTH AT 2570'  SAFETY STAND DOWN : FROM ROB LOVELADY - HAMMER SLIPPED - MOVING EQUIPMENT - NIPPLING UP - DISCUSS PINCH POINT BUFFER ZONES
		10:30 - 11:00	0.50	PJSM RIG-UP HALLIBURTON  CIRCULATE AND CONDITION HOLE FOR CEMENT JOB. DROP BALL SAFETY MEETING WITH ALL PERSONEL ON LOCATION
		11:00 - 12:00	1.00	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  TAIL CEMENT: - 13.2 PPG PREMIUM PLUS CEMENT WITH 2% CC I-FLAKE, 150 SACKS - SLURRY VOLUME: 50 BBLS - 0.25 LBM/SACK POLY E FLAKE - YIELD: 1.85 CUFT/SACK  DISPLACE WITH 55 BBL OF FRESH WATER - PUMPED AT 8 BBLS/ MIN - BUMP PLUG @ 2 BPM W/ 400 PSI, 600 OVER FOR 5 MIN - FLOAT HELD .5 BBL RETURNED - CIRCULATED 113 SKS 65 BBLS OF CEMENT TO PIT - CIP @ 11:51
		12:00 - 13:00	1.00	POST - JOB SAFETY MEETING  RIG DOWN HALLIBURTON
		13:00 - 14:30	1.50	PJSM RIG DOWN BOP , SET CASING SLIP IN WELL HEAD
		14:30 - 20:00	5.50	RIGGING DOWN CLEAN PITS RELEASED TO NEXT LOCATION @ 20:00 HRS  PREPARING TO MOVE TO NEXT LOCATION