

Submit 1 Copy To Appropriate District Office
District I -- (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II -- (575) 748-1283
811 S. First St., Artesia, NM 88210
District III -- (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV -- (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-059-20529
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Bravo Dome 2232
8. Well Number 241
9. OGRID Number 16696
10. Pool name or Wildcat Bravo Dome 640
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5005.1

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other ☐

2. Name of Operator
Oxy USA Inc.

3. Address of Operator
PO Box 4294, Houston TX 77210

4. Well Location
Unit-Letter **F** : **2077** feet from the **North** line and **2345** feet from the **West** line
Section **24** Township **22N** Range **32E** NMPM County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
5005.1

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☒ P AND A ☐
CASING/CEMENT JOB ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See Attached

Spud Date:

8/8/11

Rig Release Date:

8/12/11

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE **L. Lockett** TITLE **Reg. Analyst** DATE **3/28/12**
Type or print name **L. Kiki Lockett** E-mail address: **kiki-lockett@oxy.com** PHONE: **713-215-7643**
For State Use Only
APPROVED BY: **Ed Marton** TITLE **DISTRICT SUPERVISOR** DATE **8/29/2012**
Conditions of Approval (if any):

Operation Summary Report

Well: BRAVO DOME UNIT 2232 241F
 Project: BRAVO DOME
 Site: BRAVO DOME C02 UNIT

Event Name: DEV DRILLING
 Prim. Reason: ORIG DRILL VERT
 Start Date: 8/8/2011
 End Date: 8/12/2011

Rig Name: TRINIDAD 216

#	Date	Time: Start-End	Hrs	Op Details
1	08/07/2011	18:30 - 00:00	5.50	WAITING ON DAY LIGHT TO MOVE RIG TO NEW LOCATION
2	08/08/2011	00:00 - 06:00	6.00	WAIT ON DAYLIGHT TO R/D AND MOVE TRINIDAD 216 AND RIG UP. CONTACTED ED MARTIN @ NMOCD @ 13:30 8/7/2011
		06:00 - 07:00	1.00	WAIT ON DAYLIGHT TO R/D AND MOVE TRINIDAD 216 AND RIG UP.
		07:00 - 07:30	0.50	PJSM WITH RIG CREW AND RIG MOVERS - BUFFER ZONES ,STOP WORK,AUTHORITY MOVE TO BDU 2232 241F
		07:30 - 12:30	5.00	PJSM WITH CREW AND RIG MOVERS ON NEW LOCATION, MOVE END SPOT EQUIPMENT SAFETY BREAK: PROPER TOOLS AND BUFFERS
		12:30 - 15:00	2.50	SPOTING EQUIPMENT 100% ON LOCATION, FINISH RIGGING UP
		15:00 - 16:00	1.00	SAFETY MEETING AND PRE-SPUD INSPECTION
		16:00 - 20:00	4.00	SPUDDER 12 1/4" HOLE @ 16:00 HOURS (4:00 PM) 8/8/2011 DRILLED FROM: 0' TO 415' @ 103' / HR. ROTARY - 125 RPM WT. ON BIT - 5 - 15 K GPM - 380 PUMP PRES. - 900 PSI SAFETY BREAK: PICKING UP & HANDLING BHA & DRILL COLLARS
		20:00 - 00:00	4.00	DRILLED FROM: 415' TO 541' @ 32' / HR. WIRELINE SURVEY= 0.75 DEG @ 385' ROTARY - 125 RPM WT. ON BIT - 5 - 15 K GPM - 380 PUMP PRES. - 900 PSI SAFETY BREAK: GENERAL HOUSEKEEPING
3	08/09/2011	00:00 - 04:00	4.00	DRILLED FROM: 541' TO 802' @ 65' / HR. ROTARY - 125 RPM WT. ON BIT - 5 - 15 K GPM - 380 PUMP PRES. - 900 PSI SAFETY BREAK: MAKING CONNECTIONS
		04:00 - 05:00	1.00	CIRCULATE TO CONDITION HOLE
		05:00 - 06:00	1.00	DROP TOTCO AND TOH TO RUN 8.625" SURFACE CASING FROM 802' SAFETY BREAK: TRIPPING PIPE
		06:00 - 07:30	1.50	PREPARE FLOOR AND R/U CASING EQUIPMENT
		07:30 - 09:00	1.50	PJSM WITH CREW, RUN 18 JTS. 8 625", 24#, J-55, 8 RDS CASING FROM SURFACE TO 782.40',TORQUEING CONNECTION TO 2440 - 8 5/8" TEXAS PATTERN SHOE SET AT 782.40' - SHOE JOINT @ 738.25' - INSERT FLOAT
		09:00 - 10:00	1.00	TAKE OFF ECKEL TOOL, RIG UP HALCO CEMENT HEAD, CIRCULATE BOTTOMS TWICE
		10:00 - 11:00	1.00	PJSM - TEST LINES TO 2,500 PSI CEMENT AS FOLLOWS: PUMP 20 BBLs SPACER ,PUMP 500 SACKS OF LEAD, MIXED TO 14.8 PPG 1.35 YELD AT 5 BPM @ 75 PSI ,DROPPED PLUG @ 10:32, DISPLACED CEMENT WITH 47 BBLs FRESH WATER USING HALLIBURTON PUMP TRUCK AT 6 BPM WITH 240 PSI FINAL DISPLACEMENT PRESSURE. BUMP PLUG @ 10:47 AM WITH 400 PSI. PSI UP TO 900 PSI, HELD PRESSURE FOR 10 MINUTES. FLOAT HELD ,CIRCULATE 60 BBLs (250.5 SX) TO PIT. SAFETY BREAK: WORKING IN HOT CONDITIONS / STAYING HYDRATED

Operation Summary Report

Well: BRAVO DOME UNIT 2232 241F

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 8/8/2011

End Date: 8/12/2011

Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
		11:00 - 15:00	4.00	W O C - CLEAN PITS. CLEAN & STRAIGHTEN UP LOCATION - SAFETY MEETING TOPIC - GOOD HOUSE KEEPING
		15:00 - 18:00	3.00	PJSM - BACK OUT LANDING JOINT - SCREW ON WELL HEAD & DRILLING FLANGE. N/U BOP & FLOWLINE TO BELL NIPPLE AND WELL HEAD VALVES
		18:00 - 18:30	0.50	SAFETY MEETING AND TEST BOP TO 250 LO / 1000 HI. TEST OK
		18:30 - 19:30	1.00	FINISH N/U BOP; INSTALL ROTATING HEAD RUBBER.
		19:30 - 21:00	1.50	M/U BIT AND DC AND TRIP INTO HOLE. TAG CEMENT @ 737'. SAFETY BREAK: WORKING BHA
		21:00 - 22:00	1.00	SAFETY MEETING AND TEST CASING 250 LO / 1000 HI. TEST FAILED. WORK ANNULAR SEVERAL TIMES AND WASH OUT STACK. TEST CASING TO 250 LO/ 1000 HI FOR 30 MINUTES. TEST OK.
		22:00 - 23:00	1.00	DRILL CEMENT AND FLOAT EQUIPMENT.
		23:00 - 00:00	1.00	DRILLED FROM: 802' TO 910' @ 108' / HR. ROTARY - 90 RPM WT. ON BIT - 20 K GPM - 380 PUMP PRES. - 950 PSI SAFETY BREAK: GENERAL HOUSEKEEPING.
4	08/10/2011	00:00 - 04:00	4.00	DRILLED FROM: 910' TO 1221' @ 78' / HR. ROTARY - 90 RPM WT. ON BIT - 20 K GPM - 380 PUMP PRES. - 950 PSI SAFETY BREAK: FORKLIFT SAFETY
		04:00 - 06:00	2.00	DRILLED FROM: 1221' TO 1371' @ 75' / HR. ROTARY - 90 RPM WT. ON BIT - 20 K GPM - 380 PUMP PRES. - 950 PSI SAFETY BREAK: ELECTRICAL CONNECTIONS AROUND WATER
		06:00 - 10:00	4.00	DRILLED FROM: 1371' TO 1600' @ 57.25' / HR. WIRELINE SURVEY @ 1311' = .750 ROTARY - 90 RPM WT. ON BIT - 20 K GPM - 380 PUMP PRES. - 950 PSI SAFETY BREAK: PROPER TOOLS AND BUFFERS
		10:00 - 14:00	4.00	DRILLED FROM: 1600' TO 1850' @ 62.5' / HR. WIRELINE SURVEY @ 1806' = 1 DEGREE ROTARY - 90 RPM WT. ON BIT - 20 K GPM - 380 PUMP PRES. - 1000 PSI SAFETY BREAK: WORKING IN EXTREMELY WINDY WEATHER & BLOWING DUST
		14:00 - 18:00	4.00	DRILLED FROM: 1850' TO 2046' @ 49' / HR. ROTARY - 90 RPM WT. ON BIT - 20 K GPM - 380 PUMP PRES. - 1100 PSI SAFETY BREAK: MIXING MUD & CHEMICALS

Operation Summary Report

Well: BRAVO DOME UNIT 2232 241F
 Project: BRAVO DOME
 Site: BRAVO DOME C02 UNIT

Event Name: DEV DRILLING
 Prim. Reason: ORIG DRILL VERT
 Start Date: 8/8/2011
 End Date: 8/12/2011

Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
		18:00 - 21:00	3.00	DRILLED FROM: 2046' TO 2210' @ 54' / HR. ROTARY - 90 RPM WT. ON BIT - 35 K GPM - 380 PUMP PRES. - 1100 PSI SAFETY BREAK: CHANGING LIGHT BULBS
		21:00 - 21:30	0.50	LUBRICATE RIG AND SERVICE TOP DRIVE
		21:30 - 00:00	2.50	DRILLED FROM: 2210' TO 2312' @ 40' / HR. ROTARY - 90 RPM WT. ON BIT - 35 K GPM - 380 PUMP PRES. - 1150 PSI SAFETY BREAK: FORKLIFT SAFETY
5	08/11/2011	00:00 - 01:00	1.00	DRILLED FROM: 2312' TO 2336' @ 25' / HR. WIRELINE SURVEY = 1 DEG @ 2,305' 50 BBL SEEPAGE @ 2300' ROTARY - 90 RPM WT. ON BIT - 35 K GPM - 380 PUMP PRES. - 1150 PSI SAFETY BREAK: MAKING CONNECTIONS
		01:00 - 01:30	0.50	LUBRICATE RIG AND SERVICE TOP DRIVE
		01:30 - 06:00	4.50	DRILLED FROM: 2336' TO 2470' @ 29' / HR. TOP OF CIMARRON = 2,347' TOP OF TUBB = 2,364' ROTARY - 90 RPM WT. ON BIT - 35 K GPM - 380 PUMP PRES. - 1150 PSI SAFETY BREAK: HOT WEATHER AND HYDRATION
		06:00 - 08:00	2.00	DRILLED FROM: 2470' TO 2597' @ 63.5' / HR. TD WELLBORE @ 2,397' @ 8:00 AM 8/11/2011 TOP OF CIMARRON = 2,347' TOP OF TUBB = 2,364' ROTARY - 90 RPM WT. ON BIT - 35 K GPM - 380 PUMP PRES. - 1150 PSI SAFETY BREAK: HOT WEATHER AND HYDRATION
		08:00 - 09:00	1.00	CIRCULATE & CONDITION HOLE FOR OPEN HOLE LOGS
		09:00 - 12:00	3.00	MADE WIPER TRIP TO THE CASING SHOE / NO PROBLEMS OR TIGHT SPOTS
		12:00 - 13:00	1.00	CIRCULATE & CONDITION HOLE FOR OPEN HOLE LOGS
		13:00 - 16:00	3.00	PJSM - TRIP OUT OF HOLE TO RUN OPEN HOLE LOGS & 5 1/2" PRODUCTION CASING.
		16:00 - 22:30	6.50	PJSM - RIG UP 1 JT. DP IN PIPE WRANGLER w/TIW VALVE IN OPEN POSITION, RIG WEATHERFORD WIRE LINE & RUN IN HOLE w/1st OPEN HOLE LOG (COMPENSATED NEUTRON), LOGS TAGGED BOTTOM @ 2,599' MD. @ 5:00 PM. 8/11/2011, CALIPER LOG, GAMMA RAY, DUAL LATEROLOG MICRORESISTIVITY LOG, RIG DOWN WIRELINE @ 22:00
		22:30 - 23:00	0.50	R/U TO RIH W/ PRODUCTION CASING, MAKE UP SHOE TRACK

Operation Summary Report

Well: BRAVO DOME UNIT 2232 241F

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 8/8/2011

End Date: 8/12/2011

Rig Name: TRINIDAD 216

#	Date	Time Start-End	Hrs	Op Details
		23:00 - 00:00	1.00	RUN 5 1/2" PROD. CSG. AS FOLLOWS: 1 - FLOAT SHOE - 1.00 - 2,585.00 - 2,584.00' 1 - 5 1/2", 15.5# SHOE JT. 11.55 - 2,584.00 - 2,573.20' 5 - JTS. 5 1/2", 15.5# CSG. JTS. - 179.24 - 2,573.20 - 2,400.14' 80 - JTS. FIBER GLASS 5 1/2" - 2,383.14 - 2,400.14 - 17.00' 1 - LANDING JT. 5 1/2", 15.5# - 17.00 - 17.00 - 5.00' - (STICK UP) SAFETY BREAK: PJSM RUNNING CASING CREW CHANGE
6	08/12/2011	00:00 - 04:30	4.50	RUN 5 1/2" PROD. CSG. AS FOLLOWS: 1 - FLOAT SHOE - 1.00 - 2,585.00 - 2,584.00' 1 - 5 1/2", 15.5# SHOE JT. 11.55 - 2,584.00 - 2,573.20' 5 - JTS. 5 1/2", 15.5# CSG. JTS. - 179.24 - 2,573.20 - 2,400.14' 80 - JTS. FIBER GLASS 5 1/2" - 2,383.14 - 2,400.14 - 17.00' 1 - LANDING JT. 5 1/2", 15.5# - 17.00 - 17.00 - 5.00' - (STICK UP) SAFETY BREAK: PJSM RUNNING CASING CREW CHANGE
		04:30 - 05:00	0.50	CIRCULATE AND CONDITION HOLE FOR CEMENTING
		05:00 - 06:00	1.00	PRESSURE TEST LINES TO 2000 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: 295.0 BBLS - PUMP RATE: 7.0 BBL/MIN - CASING PRESSURE: 160 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: 5.5 BBL/MIN - CASING PRESSURE: 130 PSI DISPLACE WITH 56.0 BBL OF FRESH WATER - PUMP RATE: 7 BBL/MIN - CASING PRESSURE: 550.0 PSI - BUMPED PLUG AT 2 BBL/MIN AT 1000 PSI @ 6.00 AM 8/12/2011 - CIRCULATED 60 BBLS OF CEMENT TO SURFACE. (104 SKS) FLOAT HELD - RIGGED DOWN HALCO
		06:00 - 10:00	4.00	W O C
		10:00 - 12:00	2.00	BACK OUT LANDING JOINT, RIG DOWN , FINISH CLEANING PITS , PREPARE TO MOVE RIG TO NEW LOCATION - RIG RELEASE @ 12:00 NOON 8/12/2011.

OCCIDENTAL PERMIAN LTD

Casing Report

Well: BRAVO DOME UNIT 2232 241F	Event Name: DEV DRILLING	Report Date: 8/9/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 1
Site: BRAVO DOME C02 UNIT	Start Date: 8/8/2011	Wellbore: 00
Active Datum: Original KB @5,017.10ft (above Mean Sea Level)	End Date: 8/12/2011	

Assembly	Casing Flange	Status History
Assembly Name: SURFACE CASING Nom. Size: 12.250 (in) Top MD: 12.00 (ft) Landed MD: 782.40 (ft) Assembly Length: 770.40 (ft) Liner Overlap:	Manufacturer: VETCO GRAY Model: VG CWCT Hanger Model: Packoff Model: Top Flange Size/Rating: 8.250 (in)/3000 (psi) Btm Flange Size/Rating:	8/9/2011 INSTALLED

Components														
Component Name	Jts	Length (ft)		Btm MD (ft)	Nominal OD (in)	Nominal ID (in)	Drift ID (in)	Weight (ppf)	Grade	Threads	Manufacturer	Model	Serial No.	Cond
TEXAS PATTERN SHOE	1	1.00	12	13.00	8.625	8.097	7.972	24.00	J-55	8RD	HALLIBURTON	H-TROPHY		NEW
SHOE JOINT	1	43.15	13	56.15	8.625	8.097	7.972	24.00	J-55	STC	LONE STAR STEEL			NEW
INSERT FLOAT	1	0.00	56	56.15	8.625	8.097	7.972	24.00		STC	HALLIBURTON	HALCO		NEW
CASING JOINT(S)	18	726.25	56	782.40	8.625	8.097	7.972	24.00	J-55	STC	LONE STAR STEEL			NEW

Jewelry						
Accessory Name	Manufacturer	Num	Spacing (ft)	Interval		How Fixed
CENTRALIZER	HALLIBURTON	6		Top MD (ft)	Btm MD (ft)	
				12.00	750.10	COUPLING

Remarks

OCCIDENTAL PERMIAN LTD.

Casing Report

Well: BRAVO DOME UNIT 2232 241F	Event Name: DEV DRILLING	Report Date: 8/12/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 2
Site: BRAVO DOME C02 UNIT	Start Date: 8/8/2011	Wellbore: 00
Active Datum: Original KB @5,017.10ft (above Mean Sea Level)	End Date: 8/12/2011	

Assembly			Casing/Flange		Status History	
Assembly Name:	PRODUCTION CASING	Weight in Slips:	Manufacturer:	VETCO GRAY	8/12/2011	INSTALLED
Nom. Size:	5.500 (in)	Hours Circ:	Model:			
Top MD:	12.00 (ft)	Fluid Lost:	Hanger Model:			
Landed MD:	2,585.00 (ft)	Vol Fluid Lost:	Packoff Model:			
Assembly Length:	2,573.05 (ft)		Top Flange Size/Rating:	5.500 (in)/2000 (psi)		
Liner Overlap:			Btm Flange Size/Rating:			

Components														
Component Name	Jts	Length (ft)		Btm MD (ft)	Nominal OD (in)	Nominal ID (in)	Drift ID (in)	Weight (ppf)	Grade	Threads	Manufacturer	Model	Serial No.	Cond.
LANDING JOINT	1	17.10	12	29.10	5.500	4.950	4.825	15.50	J55	LTC				
CASING JOINT(S)	81	2,328.09	29	2,357.19	5.480	4.740	4.620	5.40	J-55	STC				
CASING JOINT(S)	5	216.06	2357	2,573.25	5.000	4.950	4.825	15.50	J55	LTC				
INSERT FLOAT	1	0.00	2573	2,573.25	5.500	4.950	4.825	15.50						
SHOE JOINT	1	10.80	2573	2,584.05	5.500	4.950	4.825	15.50	J55	LTC				
GUIDE SHOE	1	1.00	2584	2,585.05	5.500	4.950	4.825	15.50	J55	LTC				

Jewelry						
Accessory Name	Manufacturer	Num	Spacing (ft)	Interval		How Fixed
				Top MD (ft)	Btm MD (ft)	
CENTRALIZER	HALLIBURTON	26		100.00	2,580.00	FLOATING

Remarks

PRIMARY Cementing Report

Well: BRAVO DOME UNIT 2232 241F	Event Name: DEV DRILLING	Report Date: 8/9/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 1
Site: BRAVO DOME C02 UNIT	Start Date: 8/8/2011	Wellbore: 00
Active Datum: Original KB @5,017.10ft (above Mean Sea Level)	End Date: 8/12/2011	

General Job Information

Contractor: HALLIBURTON	Cemented Assembly: SURFACE CASING	Actual TOC MD: 12.00 (ft)
WOC Time: 12.00 (hr)	Assembly Size: 12.250 (in)	TOC Locate Method: Cmt Returns at Surf
Foam: N	Assembly Btm MD: 782 (ft)	
Cement:		
Not Ready to FN	Assembly Set Date: 08/09/2011	Total Slurry in Well:
Static BHT:	Hole Size: 12.250 (in)	Excess Slurry Volume: 120.2 (bbl)
Returns: Full	Volume Lost: 0.0 (bbl)	Est Cmt Vol Returns to Surf: 60.0 (bbl)

Pipe Movement - No Movement

Rotating		Reciprocating	
Rotating Start:	Init Rot. Torque: (ft-lbf)	Reciprocate Start:	Stroke Length:
Rotating End:	Avg Rot. Torq.:	Reciprocate End:	Drag Wt. Up:
Rotating RPM:	Max Rot. Torq.:	Reciprocate SPM:	Drag Wt. Down:

Stage 1 - Primary

12 - 782 ft

CTU Used:	Top Plug Used:	Annular Flow:	Press. Prior to Bump:
Circulate Prior:	Bottom Plug Used:	Ann Press Held:	Bump Press.:
Circulate Flow Rate:	Bumped Plug:	Float Held:	Press. Over Pumping:
Circulate Press:	Plug Catcher Used:	Pill Spotted Below Plug:	Duration Press. Held:

FRESH WATER

Pumping Start: 09:55	Slurry Type: SPACER	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 09:59	Class:	Excess Slurry Percent:	Slurry Btm MD:
Rate: 5.00 (bbl/min)	Density: 8.33 (ppg)	Excess Measured By:	Total Water Vol Used: 0.0 (bbl)
Foam Job:	Yield:	Mix Water Ratio:	Actual Sacks Used:
		Mix Method:	

CEMENT

Pumping Start: 10:00	Slurry Type: CEMENT	Total Slurry Volume: 120.2 (bbl)	Slurry Top MD:
Pumping End: 10:29	Class: PREM PLUS	Excess Slurry Percent: 100.00 (%)	Slurry Btm MD:
Rate: 5.00 (bbl/min)	Density: 14.80 (ppg)	Excess Measured By:	Total Water Vol Used: 75.6 (bbl)
Foam Job:	Yield: 1.3500 (ft ³ /sk)	Mix Water Ratio: 6.350 (gal/sk94)	Actual Sacks Used: 500
		Mix Method:	

Additive NameAdditive TypeAdditive Conc.Additive Amount

CALC2

ACCELERATOR

2.000 % BWOC

19.00 Sacks

POL-E FLAKES

CIRCULATION LOSSES

0.250 lbs/sk

125.00 lbs

FRESH WATER

Pumping Start: 10:30	Slurry Type: DISPLACEMENT	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 10:47	Class:	Excess Slurry Percent:	Slurry Btm MD:
Rate: 6.00 (bbl/min)	Density: 8.33 (ppg)	Excess Measured By:	Total Water Vol Used: 0.0 (bbl)
Foam Job:	Yield:	Mix Water Ratio:	Actual Sacks Used:
		Mix Method:	

Remarks

HALLIBURTON PUMP JOB WENT GOOD, GOOD CREW AND SUPERVISOR

PRIMARY Cementing Report

Well: BRAVO DOME UNIT 2232 241F	Event Name: DEV DRILLING	Report Date: 8/12/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 2
Site: BRAVO DOME C02 UNIT	Start Date: 8/8/2011	Wellbore: 00
Active Datum: Original KB @5,017.10ft (above Mean Sea Level)	End Date: 8/12/2011	

General Job Information

Contractor: HALLIBURTON	Cemented Assembly: PRODUCTION CASING	Actual TOC MD: 12.00 (ft)
WOC Time:	Assembly Size: 5.500 (in)	TOC Locate Method: Cmt Returns at Surf
Foam: N	Assembly Btm MD: 2585 (ft)	
Cement:		
Not Ready to FN	Assembly Set Date: 08/12/2011	Total Slurry in Well:
Static BHT:	Hole Size: 7.875 (in)	Excess Slurry Volume: 315.7 (bbl)
Returns: Full	Volume Lost: 0.0 (bbl)	Est Cmt Vol Returns to Surf: 60.0 (bbl)

Pipe Movement - No Movement

Rotating		Reciprocating	
Rotating Start:	Init Rot. Torque: (ft-lbf)	Reciprocate Start:	Stroke Length:
Rotating End:	Avg Rot. Torq.:	Reciprocate End:	Drag Wt. Up:
Rotating RPM:	Max Rot. Torq.:	Reciprocate SPM:	Drag Wt. Down:

Stage 1 - Primary 12" 2.585 ft

CTU Used:	Top Plug Used:	Annular Flow:	Press. Prior to Bump:
Circulate Prior:	Bottom Plug Used:	Ann Press Held:	Bump Press.:
Circulate Flow Rate:	Bumped Plug:	Float Held:	Press. Over Pumping:
Circulate Press:	Plug Catcher Used:	Pill Spotted Below Plug:	Duration Press. Held:

FRESH WATER

Pumping Start: 05:06	Slurry Type: SPACER	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 05:10	Class:	Excess Slurry Percent:	Slurry Btm MD:
Rate: 5.00 (bbl/min)	Density: 8.33 (ppg)	Excess Measured By:	Total Water Vol Used: 0.0 (bbl)
Foam Job:	Yield:	Mix Water Ratio:	Actual Sacks Used:
		Mix Method:	

LEAD CEMENT

Pumping Start: 05:11	Slurry Type: CEMENT	Total Slurry Volume: 266.3 (bbl)	Slurry Top MD:
Pumping End: 05:47	Class: PREM PLUS	Excess Slurry Percent: 100.00 (%)	Slurry Btm MD:
Rate: 7.00 (bbl/min)	Density: 11.10 (ppg)	Excess Measured By:	Total Water Vol Used: 223.9 (bbl)
Foam Job:	Yield: 3.2500 (ft ³ /sk)	Mix Water Ratio: 20.440 (gal/sk94)	Actual Sacks Used: 460
		Mix Method:	
<u>Additive Name</u>	<u>Additive Type</u>	<u>Additive Conc.</u>	<u>Additive Amount</u>
CALC2	ACCELERATOR	2.000 % BWOC	18.00 Sacks
POL-E FLAKES	CIRCULATION LOSSES	0.250 lbs/sk	115.00 lbs

TAIL CEMENT

Pumping Start: 05:48	Slurry Type: CEMENT	Total Slurry Volume: 49.4 (bbl)	Slurry Top MD:
Pumping End: 05:56	Class: PREM PLUS	Excess Slurry Percent: 100.00 (%)	Slurry Btm MD:
Rate: 7.00 (bbl/min)	Density: 13.20 (ppg)	Excess Measured By:	Total Water Vol Used: 35.5 (bbl)
Foam Job:	Yield: 1.8500 (ft ³ /sk)	Mix Water Ratio: 9.950 (gal/sk94)	Actual Sacks Used: 150
		Mix Method:	
<u>Additive Name</u>	<u>Additive Type</u>	<u>Additive Conc.</u>	<u>Additive Amount</u>
CALC2	ACCELERATOR	2.000 % BWOC	6.00 Sacks
POL-E FLAKES	CIRCULATION LOSSES	0.250 lbs/sk	38.00 lbs

FRESH WATER

Pumping Start: 06:04	Slurry Type: DISPLACEMENT	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 06:13	Class:	Excess Slurry Percent:	Slurry Btm MD:
Rate: 7.00 (bbl/min)	Density: 8.33 (ppg)	Excess Measured By:	Total Water Vol Used: 0.0 (bbl)
Foam Job:	Yield:	Mix Water Ratio:	Actual Sacks Used:
		Mix Method:	