

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

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

Form C-103
Revised August 1, 2011

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.)		WELL API NO. 30-059-20525
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other CO2		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Oxy USA Inc.		6. State Oil & Gas Lease No.
3. Address of Operator PO Box 4294, Houston TX 77210		7. Lease Name or Unit Agreement Name Bravo Dome 1935
4. Well Location Unit Letter K : 1700 feet from the South line and 1700' feet from the West line Section 16 Township 19N Range 35E NMPM County Union		8. Well Number 162
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4556.7		9. OGRID Number 16696
		10. Pool name or Wildcat Bravo Dome 1640

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS <input checked="" type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input checked="" type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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:

7/6/11

Rig Release Date:

7/9/2011

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

3/20/12

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 Martin

TITLE

DISTRICT SUPERVISOR

DATE

8/29/2012

Conditions of Approval (if any):

Operation Summary Report

Well: BRAVO DOME UNIT 1935 162K

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 7/5/2011

End Date: 7/9/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
1	07/05/2011	08:00 - 12:00	4.00	<p>CALLED ED MARTIN WITH THE NMOCD ON INTENT TO SPUD</p> <p>PJSM WITH RIG CREW AND DRIVERS: STOP WORK AUTHORITY, TAG LINES, FALL PROTECTION, 5 MPH ON LOCATION, 30' BUFFER WHILE LOADING/UNLOADING, PPE</p> <p>CONTINUE RIG DOWN</p> <p>10:00 SAFETY REFRESHER ON SAFETY REQUIREMENTS FOR DRIVERS AND RIG HANDS. REMINDED TRUCERS TO USE SPOTTERS WHILE BACKING</p>
		12:00 - 16:00	4.00	<p>BEGIN MOVING TO BDU 1935-162K</p> <p>PJSM ON NEW LOCATION: STOP WORK AUTHORITY AND FLAGGERS</p>
		16:00 - 20:00	4.00	<p>DERRICK UP @ 1630</p> <p>19:30 100% ON LOCATION</p> <p>18:00 SAFETY BREAK FOR HYDRATION</p>
		20:00 - 00:00	4.00	<p>BEGAN BUILDING SPUD MUD AND CONTINUE RIGGING UP</p> <p>ACCEPTED RIG @ 22:00.</p> <p>22:20 PARTIAL RENTAL GENERATOR FAILURE; LIGHTS ONLY. FOUND A LOOSE CONNECTION, BUT LIGHTS CONTINUE TO FLICKER. RIG MANAGER CALLED FOR A TRINIDAD ELECTRICIAN. ETA 4 HOURS.</p>
2	07/06/2011	00:00 - 02:30	2.50	<p>FILLING STEEL PIT, RIGGING UP TO SPUD</p> <p>STRAP & P/U 12 1/4" BHA, AS FOLLOWS:</p> <p>BIT - 12.25" SMITH FG04, SERIAL # PS55405</p> <p>2 - 8" DRILL COLLAR</p> <p>X-OVER</p> <p>17 - 6" DC</p> <p>MIX SPUD MUD, HOLD PJSM & SPUD MEETING</p>
		02:30 - 06:00	3.50	<p>SPUDDER 12 1/4" HOLE @ 0230</p> <p>DRILLED 12 1/4" HOLE FROM 0' TO 125'; ROP = 35</p> <p>DROP SOAP STICK EVERY CONNECTION AND 1 SWEEP STICK EVERY THIRD CONNECTION</p> <p>CIRCULATE THROUGH STEEL PITS</p> <p>WOB = 56 KLBS</p> <p>ROTARY = 135 RPM</p> <p>PUMP RATE = 353 GPM (60 SPM)</p> <p>PUMP PRESSURE = 720 PSI</p>
		06:00 - 10:00	4.00	<p>DRILLED 12 1/4" HOLE FROM 125' TO 400'; ROP = 68</p> <p>DROP SOAP STICK EVERY CONNECTION AND 1 SWEEP STICK EVERY OTHER CONNECTION</p> <p>CIRCULATE THROUGH OUTER RESERVES</p> <p>SURVEY @ 400' 1DEG</p> <p>WOB = 60 KLBS</p> <p>ROTARY = 148 RPM</p> <p>PUMP RATE = 353 GPM (60 SPM)</p> <p>PUMP PRESSURE = 850 PSI</p> <p>SAFETY BREAK: DISCUSSED SAFETY IN GENERAL.</p>

Operation Summary Report

Well: BRAVO DOME UNIT 1935 162K

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 7/5/2011

End Date: 7/9/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
		10:00 - 14:00	4.00	DRILLED 12 1/4" HOLE FROM 400' TO 700'; ROP = 75 DROP SOAP STICK EVERY CONNECTION AND 1 SWEEP STICK EVERY OTHER CONNECTION CIRCULATE THROUGH OUTER RESERVES NOTE: SWITCHED BACK OVER INTO STEEL PITS @ 680' WOB = 60 KLBS ROTARY = 95 RPM PUMP RATE = 355 GPM (63 SPM) PUMP PRESSURE = 950 PSI SAFETY BREAK: DISCUSSED LOCK OUT TAG OUT.
		14:00 - 15:30	1.50	DRILLED 12 1/4" HOLE FROM 700' TO 795'; ROP = 63.3 DROP SOAP STICK EVERY CONNECTION AND 1 SWEEP STICK EVERY OTHER CONNECTION CIRCULATE THROUGH STEEL PITS WOB = 60 KLBS ROTARY = 148 RPM PUMP RATE = 355 GPM (63 SPM) PUMP PRESSURE = 950 PSI
		15:30 - 16:00	0.50	PUMP VISCOUS SWEEP AND 2 BOTTOMS UP BEFORE TRIP
		16:00 - 18:00	2.00	DROP TOTCO AND TRIP OUT OF THE HOLE FROM 795 TO SURFACE SURVEY @ 795 = 0.75 ENCOUNTERED SOME TIGHT HOLE FROM 635' UP TO 486'. PUMPED AND BACK REAMED THROUGH SLOW WITH NO PROBLEM.
		18:00 - 20:00	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
		20:00 - 21:00	1.00	RIG UP CEMENTING HEAD, CIRCULATE CASING AND HOLD PJSM WITH RIG AND CEMENT CREW
		21:00 - 23:00	2.00	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 @ 23:00 AND PRESSURED UP TO 560 PSI HELD FOR 5 MIN. GOT BACK .5 BBL TO TRUCK FLOATS HELD. FULL RETURNS THROUGHOUT JOB GOT BACK 56.5 BBL (235 SKS) TO SURFACE.
		23:00 - 00:00	1.00	WOC, JET CELLAR, CLEAN PITS, SERVICE RIG AND SWIVEL MUD UP PREMIX FOR VISCOUS SWEEPS AFTER DRILLING OUR FLOAT COLLAR
3	07/07/2011	00:00 - 03:00	3.00	WOC, MUD UP PREMIX FOR VISCOUS SWEEPS AFTER DRILLING OUR FLOAT COLLAR
		03:00 - 08:00	5.00	FINISH MUD UP, N/U BOP
		08:00 - 08:30	0.50	PJSM WITH RIG CREW. TEST BOP AND WELL HEAD TO 1000 PSI HIGH 5 MINUTES AND 250LOW 5 MINUTES TEST GOOD
		08:30 - 10:30	2.00	RIG UP TO TRIP IN HOLE AND TRIP IN HOLE WITH 7 7/8" PRODUCTION ASSEMBLY TO TOP OF CEMENT @ 724'

Operation Summary Report

Well: BRAVO DOME UNIT 1935 162K

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 7/5/2011

End Date: 7/9/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
		10:30 - 13:00	2.50	CHANGE OUT MUD LINE ON POWER SWIVEL
		13:00 - 13:30	0.50	SERVICE RIG
		13:30 - 15:00	1.50	TEST CASING TO 1000 PSI FOR FIVE MIN. AND DRILL OUT PLUG, FLOAT, AND SHOE TRACK TO 795'
		15:00 - 19:00	4.00	DRILL 7 7/8" PRODUCTION HOLE FROM 795' - 1042' AVG. ROP = 61.75'/HR WOB = 31-36 KLBS ROTARY = 85 RPM PUMP RATE = 353 GPM (63 SPM) PUMP PRESSURE = 967 PSI MW = 8.5 PPG CIRCULATING THROUGH OUTER RESERVES DROPPING ONE SOAP STICK PER CONNECTION AND ONE SWEEP STICK EVERY 3RD CONNECTION
		19:00 - 23:00	4.00	DRILL 7 7/8" PRODUCTION HOLE FROM 795' - 1042' AVG. ROP = 54.75'/HR WOB = 32-38 KLBS ROTARY = 85 RPM PUMP RATE = 353 GPM (63 SPM) PUMP PRESSURE = 1100 PSI MW = 9.2 PPG SWITCHED TO STEEL PITS USING FRESHWATER AND POLY-PAC UL DUMP AND DILUTE AS NEEDED TO STAY BELOW 9.4
		23:00 - 00:00	1.00	DRILL 7 7/8" PRODUCTION HOLE FROM 1261' - 1296' AVG. ROP = 35'/HR WOB = 32-38 KLBS ROTARY = 89 RPM PUMP RATE = 353 GPM (63 SPM) PUMP PRESSURE = 1150 PSI MW = 9.2 PPG CIRCULATING THROUGH STEEL PITS
4	07/08/2011	00:00 - 04:00	4.00	DRILL 7 7/8" PRODUCTION HOLE FROM 1296' - 1495' AVG. ROP = 49.75'/HR WOB = 30-32 KLBS ROTARY = 100 RPM PUMP RATE = 353 GPM (63 SPM) PUMP PRESSURE = 1150 PSI MW = 9.1 PPG DROPPING SOAP STICKS EVERY CONNECTION AND SWEEP STICKS EVERY 3RD CIRCULATING THROUGH STEEL PITS
		04:00 - 06:00	2.00	DRILL 7 7/8" PRODUCTION HOLE FROM 1495' - 1640' AVG. ROP = 72.5'/HR WOB = 30-32 KLBS ROTARY = 100 RPM PUMP RATE = 353 GPM (63 SPM) PUMP PRESSURE = 1150 PSI MW = 8.8 PPG DROPPING SOAP STICKS EVERY CONNECTION AND SWEEP STICKS EVERY 3RD CIRCULATING THROUGH STEEL PITS

Operation Summary Report

Well: BRAVO DOME UNIT 1935 162K

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 7/5/2011

End Date: 7/9/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
		06:00 - 10:00	4.00	DRILL 7 7/8" PRODUCTION HOLE FROM 1640' - 1870' AVG. ROP = 58'/HR SURVEY @ 1786' 1.25 DEG. WOB = 30-38 KLBS ROTARY = 85 RPM PUMP RATE = 353 GPM (63 SPM) PUMP PRESSURE = 950 PSI MW = 8.8 PPG DROPPING SOAP STICKS EVERY CONNECTION AND SWEEP STICKS EVERY 3RD CIRCULATING THROUGH STEEL PITS SAFETY BREAK: DISCUSSED MIXING MUD AND CHEMICALS.
		10:00 - 10:30	0.50	SERVICE RIG
		10:30 - 14:00	3.50	DRILL 7 7/8" PRODUCTION HOLE FROM 1870' - 2080' AVG. ROP = 60'/HR IDENTIFIED THE CIMARRON @ 2001' - 2019' WOB = 30-38 KLBS ROTARY = 85 RPM PUMP RATE = 353 GPM (63 SPM) PUMP PRESSURE = 1150 PSI MW = 8.8 PPG DROPPING SOAP STICKS EVERY CONNECTION AND SWEEP STICKS EVERY 3RD CIRCULATING THROUGH STEEL PITS SAFETY BREAK: TRIPPING PIPE
		14:00 - 17:00	3.00	DRILL 7 7/8" PRODUCTION HOLE FROM 2080' - 2199' AVG. ROP = 40'/HR WOB = 30-38 KLBS ROTARY = 85 RPM PUMP RATE = 353 GPM (63 SPM) PUMP PRESSURE = 1300 PSI MW = 8.8 PPG DROPPING SOAP STICKS EVERY CONNECTION AND SWEEP STICKS EVERY 3RD CIRCULATING THROUGH STEEL PITS SAFETY BREAK: TRIPPING PIPE
		17:00 - 18:00	1.00	CIRCULATE VISCOUS SWEEP AND 2 BOTTOMS UP
		18:00 - 20:00	2.00	DROP SURVEY AND TOH FROM 2199'
				SURVEY = .75 @ 2199
		20:00 - 20:30	0.50	SAFETY MEETING WITH RIG CREW: RUNNING CASING
				RIG UP TO RUN 5 1/2" PRODUCTION CASING
		20:30 - 23:00	2.50	RUN 5 1/2" PRODUCTION CASING TO 2193' - GUIDE SHOE - 2193 - 10' SHOE JOINT - 2183 - INSERT FLOAT - 2183 - 53 JTS OF 5 1/2" 15.5# J-55 LTC FROM 2183' TO SURFACE
		23:00 - 00:00	1.00	RIG DOWN CRT, INSTALL 2" LINES AND R/U CMT HEAD AND MANIFOLD
5	07/09/2011	00:00 - 00:30	0.50	FINISH RIGGING DOWN CRT, INSTALL 2" LINES AND R/U CMT HEAD AND MANIFOLD. CIRCULATE 2XBOTTOMS UP

Operation Summary Report

Well: BRAVO DOME UNIT 1935 162K

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 7/5/2011

End Date: 7/9/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
		00:30 - 02:00	1.50	PJSM WITH TRINIDAD AND HALLIBURTON PUMPED CEMENT JOB AS FOLLOWS: - 20 BBL FRESH WATER SPACER AT 5.5 BBL/MIN AND 247 PSI - 173.6 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 = 6 BBL/MIN - PUMP PRESSURE = 220 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 = 6 BBL/MIN - PUMP PRESSURE = 100 PSI - DISPLACE WITH 52 BBLs OF FRESH WATER BUMPED PLUG AT 1064 PSI RETURNED 0.5 BBL TO TRUCK, FLOAT HELD CIRCULATED 102 BBL (177SKS) TO SURFACE
		02:00 - 05:00	3.00	RIG DOWN HALLIBURTON BACKED OUT LANDING JOINT NIPPLE DOWN BOP, AND JET PITS. RELEASE RIG TO THE BDU_ 1935-021FK @ 0500 HOURS

OXY-USA INC

Casing Report

Well: BRAVO DOME UNIT 1935 162K	Event Name: DEV DRILLING	Report Date: 7/6/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 1
Site: BRAVO DOME C02 UNIT	Start Date: 7/5/2011	Wellbore: 00
Active Datum: Original KB @4,563.70ft (above Mean Sea Level)	End Date: 7/9/2011	

Assembly			Casing Flange			Status History	
Assembly Name: SURFACE CASING	Weight in Slips:		Manufacturer: VETCO GRAY			7/5/2011	INSTALLED
Nom. Size: 8.625 (in)	Hours Circ:		Model: VG CWCT				
Top MD: 12.00 (ft)	Fluid Lost:		Hanger Model:				
Landed MD: 786.15 (ft)	Vol Fluid Lost:		Packoff Model:				
Assembly Length: 774.15 (ft)			Top Flange Size/Rating: 11.000 (in)/3000 (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
CASING JOINT(S)	17	730.20	12	742.20	8.625	8.097	7.972	24.00	J-55	STC				
INSERT FLOAT	1	0.00	742	742.20	8.625	8.097	7.972	0.00						
SHOE JOINT	1	43.45	742	785.65	8.625	8.097	7.972	24.00	J-55	STC				
TEXAS PATTERN SHOE	1	0.50	786	786.15	8.625	8.097	7.972	24.00						

Jewelry						
Accessory Name	Manufacturer	Num.	Spacing (ft)	Interval		How Fixed
				Top MD (ft)	Btm MD (ft)	
CENTRALIZER	HALLIBURTON	6		12.00	786.00	COUPLING

Remarks

OXY USA INC

Casing Report

Well: BRAVO DOME UNIT 1935 162K	Event Name: DEV DRILLING	Report Date: 7/8/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 2
Site: BRAVO DOME C02 UNIT	Start Date: 7/5/2011	Wellbore: 00
Active Datum: Original KB @4,563.70ft (above Mean Sea Level)	End Date: 7/9/2011	

Assembly			Casing Flange		Status History	
Assembly Name:	PRODUCTION CASING	Weight in Slips:	Manufacturer:	FMC	7/7/2011	INSTALLED
Nom. Size:	5.500 (in)	Hours Circ:	Model:	FMC TC		
Top MD:	12.00 (ft)	Fluid Lost:	Hanger Model:			
Landed MD:	2,198.97 (ft)	Vol Fluid Lost:	Packoff Model:			
Assembly Length:	2,186.97 (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
CASING JOINT(S)	52	2,176.47	12	2,188.47	5.500	4.950	4.825	15.50	J-55	LTC				
INSERT FLOAT	1	0.00	2188	2,188.47	5.500	4.950	4.825	0.00						
SHOE JOINT	1	10.00	2188	2,198.47	5.500	4.950	4.825	15.50	J-55	LTC				
GUIDE SHOE	1	0.50	2198	2,198.97	5.500	4.950	4.825	0.00						

Jewelry						
Accessory Name	Manufacturer	Num	Spacing (ft)	Interval		How Fixed
				Top MD (ft)	Btm MD (ft)	
CENTRALIZER	HALLIBURTON	14		12.00	2,186.00	COUPLING

Remarks

PRIMARY Cementing Report

Well: BRAVO DOME UNIT 1935 162K	Event Name: DEV DRILLING	Report Date: 7/6/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 1
Site: BRAVO DOME C02 UNIT	Start Date: 7/5/2011	Wellbore: 00
Active Datum: Original KB @4,563.70ft (above Mean Sea Level)	End Date: 7/9/2011	

General Job Information

Contractor: HALLIBURTON	Cemented Assembly: SURFACE CASING	Actual TOC MD: 12.00 (ft)
WOC Time:	Assembly Size: 8.625 (in)	TOC Locate Method: Cmt Returns at Surf
Foam: N	Assembly Btm MD: 786 (ft)	
Cement:		
Not Ready to FN	Assembly Set Date: 07/06/2011	Total Slurry in Well:
Static BHT:	Hole Size: 12.250 (in)	Excess Slurry Volume: 577.1 (bbl)
Returns: Full	Volume Lost: 0.0 (bbl)	Est Cmt Vol Returns to Surf: 56.5 (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 - 786 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: 22:12	Slurry Type: SPACER	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 22:17	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: 22:18	Slurry Type: CEMENT	Total Slurry Volume: 144.3 (bbl)	Slurry Top MD:
Pumping End: 22:43	Class: PREM PLUS	Excess Slurry Percent: 400.00 (%)	Slurry Btm MD:
Rate: 6.00 (bbl/min)	Density: 14.80 (ppg)	Excess Measured By:	Total Water Vol Used: 90.7 (bbl)
Foam Job:	Yield: 1.3500 (ft ³ /sk)	Mix Water Ratio: 6.350 (gal/sk94)	Actual Sacks Used: 600
		Mix Method:	

Additive Name	Additive Type	Additive Conc.	Additive Amount
CALC2	ACCELERATOR	2.000 % BWOC	50.00 Sacks
POL-E FLAKES	CIRCULATION LOSSES	0.250 gal/bbl	150.00 lb/Mgal

FRESH WATER

Pumping Start: 22:45	Slurry Type: DISPLACEMENT	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 23:04	Class: C	Excess Slurry Percent: 400.00 (%)	Slurry Btm MD:
Rate: 5.50 (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

CEMENT JOB WENT AS PLAN GOOD CEMENT CREW.

PRIMARY Cementing Report

Well: BRAVO DOME UNIT 1935 162K	Event Name: DEV DRILLING	Report Date: 7/8/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 2
Site: BRAVO DOME C02 UNIT	Start Date: 7/5/2011	Wellbore: 00
Active Datum: Original KB @4,563.70ft (above Mean Sea Level)	End Date: 7/9/2011	

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: 2199 (ft)	
Cement:	Assembly Set Date: 07/08/2011	Total Slurry in Well:
Not Ready to FN	Hole Size: 12.250 (in)	Excess Slurry Volume: 223.1 (bbl)
Static BHT:	Volume Lost: 0.0 (bbl)	Est Cmt Vol Returns to Surf: 76.0 (bbl)
Returns: Full		

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' - 2,192 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:

Pumping Start: 00:38	Slurry Type: SPACER	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 00:41	Class:	Excess Slurry Percent:	Slurry Btm MD:
Rate: 5.00 (bbl/min)	Density: 8.30 (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: 00:42	Slurry Type: CEMENT	Total Slurry Volume: 173.7 (bbl)	Slurry Top MD:
Pumping End: 01:11	Class: PREM PLUS	Excess Slurry Percent: 100.00 (%)	Slurry Btm MD:
Rate: 5.50 (bbl/min)	Density: 11.10 (ppg)	Excess Measured By:	Total Water Vol Used: 146.0 (bbl)
Foam Job:	Yield: 3.2500 (ft ³ /sk)	Mix Water Ratio: 20.440 (gal/sk94)	Actual Sacks Used: 300
		Mix Method:	
<u>Additive Name</u>	<u>Additive Type</u>	<u>Additive Conc.</u>	<u>Additive Amount</u>
CALC2	ACCELERATOR	2.000 % BWOC	4.00 bbl
POL-E FLAKES	CIRCULATION LOSSES	0.250 lbs/sk	87.50 lbs

TAIL CEMENT

Pumping Start: 01:12	Slurry Type: CEMENT	Total Slurry Volume: 49.4 (bbl)	Slurry Top MD:
Pumping End: 01:23	Class: PREM PLUS	Excess Slurry Percent: 100.00 (%)	Slurry Btm MD:
Rate: 5.50 (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	1.00 bbl
POL-E FLAKES	CIRCULATION LOSSES	0.250 lbs/sk	37.50 lbs

FRESH WATER

Pumping Start: 01:26	Slurry Type: DISPLACEMENT	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End: 01:44	Class:	Excess Slurry Percent:	Slurry Btm MD:
Rate: 7.50 (bbl/min)	Density: 8.30 (ppg)	Excess Measured By:	Total Water Vol Used: 0.0 (bbl)
Foam Job:	Yield:	Mix Water Ratio:	Actual Sacks Used:
		Mix Method:	

Remarks

CEMENT JOB WENT AS PLAN GOOD CREW