

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

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. 30 059-20546
1. Type of Well: Oil Well ☐ Gas Well ☒ Other CO₂		5. Indicate Type of Lease STATE ☐ FEE ☐
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 J 1700 feet from the South line and 1700 feet from the EAST line Section 31 Township 19N Range 35E NMPM County UNION		8. Well Number 312
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4614.4		9. OGRID Number 16696
		10. Pool name or Wildcat Bravo Dome 640

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☒	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☒	
DOWNHOLE COMMINGLE ☐			
OTHER: ☐		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:

9/10/11

Rig Release Date:

9/14/11

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 **3/30/12**
Type or print name **L. Kiki Lockett** E-mail address: **kiki-lockett@oxy.com** PHONE: **913-215-7643**
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 312J
 Project: BRAVO DOME
 Site: BRAVO DOME C02 UNIT

Event Name: DEV DRILLING
 Prim. Reason: ORIG DRILL VERT
 Start Date: 9/10/2011
 End Date: 9/13/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
1	09/09/2011	10:00 - 00:00	14.00	WAITING ON LOCATION, CHANGED OIL IN MOTORS, CHECKED MUD PUMP, FINISH RIGGING DOWN. NOTIFIED ED MARTIN, NMOCD, INTENTIONS TO SPUD & SURFACE CEMENTING PLANS. 11:00 HRS 9/9/2011
2	09/10/2011	00:00 - 07:00	7.00	WAIT ON DAYLIGHT AND TRUCKS
		07:00 - 07:30	0.50	PJSM: DOUBLE T, PASSMORE, SPIN & GIN, RIG CREW, RM, BOTH DSM'S JSA MOVING, TAILBOARDS, TAGLINES, SPOTTERS, COMMUNICATIONS, HONKING
		07:30 - 12:00	4.50	MOVE RIG, DOUBLE T-POLE TRUCK BROKE HYD PUMP AT 8:30 HRS, CALLED RAY'S FOR ANOTHER TRUCK WHILE PARTS & MECHANIC WERE ENROUTE. RAY'S ARRIVED 11:30 HRS. VERSATILE HAD TO RELOCATE CELLAR, ORIGINALLY 10' TOO CLOSE TO RESERVE. LOCATION EXTREMELY TIGHT. REQUIRED EXTRA EFFORT & TIME FOR EQUIPMENT PLACEMENT. DITCHER WOULD NOT START, TOOK APPROX 1 HR MAINT TO GET IT RUNNING. ROUTER QUIT ON COMMUNICATIONS, BYPASS & ESTABLISH COMMS. DERRICK & SUB IN PLACE AT 12:00 HRS
		12:00 - 12:30	0.50	PJSM: DOUBLE T, PASSMORE, SPIN & GIN, RAY'S, RIG CREW, RM, BOTH DSM'S JSA MOVING, (REVIEW- TAILBOARDS, TAGLINES, SPOTTERS, COMMUNICATIONS, HONKING) ADDITIONAL DISCUSSION, TIGHT LOCATION (CLIFF ON ONE SIDE, MOUNTAIN ON THE OTHER SIDE - NO CUSHION ON EITHER END. APPROX 30' OF FILL WITHIN 75' OF CELLAR, DISCUSSED POSSIBLE WASHOUT UNDER SUB & PRECAUTIONS NEEDED TO AVOID WASHOUT ISSUE.
		12:30 - 17:30	5.00	CONT MOVING LOADS, LEVEL STEEL PITS, DERRICK STANDING AT 13:00 HRS. RIG 100% ON LOCATION AT 14:30 HRS, RIG INSPECTION
		17:30 - 21:30	4.00	DRILL 12.25" SURFACE HOLE FROM GL TO 302' CUT 302' AVG 76' FPH CIRC STEEL PITS TO 175', RET TO RESERVE, 70 RPM, 25K WOB, 434 GPM. 800 PSI PUMP PRESS. MW 8.6 VIS 40 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD. SAFETY BREAK: JSA MIXING CHEMICALS, MAKING CONNECTIONS
		21:30 - 23:00	1.50	DRILL 12.25" SURFACE HOLE FROM 302' TO 407' CUT 105' AVG 70' FPH TO RESERVE, 70 RPM, 25K WOB, 434 GPM. 850 PSI PUMP PRESS. MW 8.6 VIS 38 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD. SAFETY BREAK: JSA PROPPER PPE, GOOD COMMUNICATION
		23:00 - 00:00	1.00	REPAIR SUMP PUMP
3	09/11/2011	00:00 - 02:00	2.00	REPAIR SUMP PUMP, CHANGE OUT MOTOR
		02:00 - 06:00	4.00	DRILL 12.25" SURFACE HOLE FROM 407' TO 593' CUT 186' AVG 48' FPH RET TO RESERVE, 70 RPM, 25K WOB, 434 GPM. 900 PSI PUMP PRESS. MW 8.6 VIS 30 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD. RAN WIRE LINE SURVEY @ 400' INC 1.5 SAFETY BREAK: TRIPPING PIPE, HANDLING TUBULARS
		06:00 - 08:00	2.00	DRILL 12.25" SURFACE HOLE FROM 593' TO 672' CUT 79' AVG 40' FPH RET TO RESERVE, 70 RPM, 25K WOB, 434 GPM. 900 PSI PUMP PRESS. MW 8.6 VIS 30 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
		08:00 - 08:30	0.50	ATTEMPT TO JET CELLAR TO CHECK WASHOUT. CELLAR JET APPEARED TO HAVE EXCESS PRESSURE. RESUMED DRILLING UNTIL JET COULD BE TAKEN APART & CHECKED
		08:30 - 10:30	2.00	DRILL 12.25" SURFACE HOLE FROM 672' TO 807' CUT 135' AVG 68' FPH RET TO RESERVE, 70 RPM, 25K WOB, 434 GPM. 900 PSI PUMP PRESS. MW 8.6 VIS 30 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD. JETTED CELLAR DURING CONN & WASHOUT DETERMINED TO BE MINIMAL
		10:30 - 11:00	0.50	PUMP HI VIS SWEEP. CIRC & COND HOLE CLEAN. DROP TOTCO
		11:00 - 13:00	2.00	TOH, LD DRILL STRING TO RUN SURFACE CASING HOLE WAS FREE NO PROBLEMS ALL THE WAY TO SURFACE. LAST SURVEY @ 790 INC 0 DEG
		13:00 - 13:30	0.50	RU CRT, REMOVE ROTATING RUBBER SAFETY BREAK: JSA RUNNING CASING, ROLLING PIPE

Operation Summary Report

Well: BRAVO DOME UNIT 1935 312J

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 9/10/2011

End Date: 9/13/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
		13:30 - 16:30	3.00	RUN 8 5/8", J-55, STC, 24# SURFACE CASING SETTING DEPTH TEX PATTERN SHOE 789' SHOE JT 788' INSERT FLOAT 745' 17 JTS CASING 745' SUBSURFACE LEDGE CAUSED MISALIGNMENT. HAD TO HAND START EVERY JT SIMOP RIG UP HALIBURTON
		16:30 - 17:00	0.50	FINISH RIG UP HALLIBURTON, SAFETY BREAK: JSA CEMENTING, HI PRESS LINES, PINCH PTS."
		17:00 - 18:00	1.00	"CEMENT 8 5/8" CASING WITH 500 SX PREM PLUS, 2% CACL, .25 LBM POLY-E-FLAKE. FULL RETURNS THRU JOB, CIRC 196 SX (47 BBLS) CEMENT TO SURFACE. BUMPED PLUG @ 17.47
		18:00 - 22:00	4.00	WAIT 4 HRS ON CEMENT, CLEAN RIG, BUILD SWEEP MUD SAFETY BREAK: JSA NU BOPE, TRIPPING PIPE
		22:00 - 00:00	2.00	RD CEMENTING HEAD, LD LANDING JT. INSTALL WELL HEAD. NU BOPE
4	09/12/2011	00:00 - 01:30	1.50	NIPPLE UP BOPE
		01:30 - 02:00	0.50	MU TEST PLUG TO 5.5" CASING JT. TEST BOP TO 250 PSI LO, 1000 PSI HI SAFETY BREAK: JSA TRIPPING PIPE, HAZARD AWARENESS
		02:00 - 04:00	2.00	TRIP IN HOLE WITH 7 7/8 PRODUCTION ASSEMBLY, TAG CEMENT AT 737'
		04:00 - 04:30	0.50	TEST CASING TO 1000 PSI FOR 30 MINS. GOOD TEST
		04:30 - 06:00	1.50	DRILL OUT CEMENT WITH REDUCED PARAMETERS, 15K WOB, 50 RPM
		06:00 - 10:00	4.00	DRILL 7 7/8" PROD HOLE F 807' TO 1067', CUT 260', AVG 65 FPH, 25K WOB, 70 RPM, 340 GPM, 1050 PSI PUMP PRES. CIRC RESERVE. MW 8.6 VIS 38 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD. SAFETY BREAK: DROPPED OBJECTS
		10:00 - 14:00	4.00	DRILL 7 7/8" PROD HOLE F 1067' TO 1240', CUT 173', AVG 44 FPH, 30K WOB, 70 RPM, 340 GPM, 1150 PSI PUMP PRES. CIRC RESERVE. MW 8.6 VIS 38 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
		14:00 - 18:00	4.00	DRILL 7 7/8" PROD HOLE F 1240' TO 1389', CUT 149', AVG 37 FPH, 30K WOB, 70 RPM, 340 GPM, 1150 PSI PUMP PRES. CIRC RESERVE. MW 8.7 VIS 36 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD.
		18:00 - 22:00	4.00	DRILL 7 7/8" PROD HOLE F 1389' TO 1605', CUT 216', AVG 54 FPH, 30 K WOB, 75 RPM, 340 GPM, 1150 PSI PUMP PRES. CIRC RESERVE. MW 8.8 VIS 34 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD. SAFETY BREAK: PROPPER PPE, GOOD COMMUNICATION.
		22:00 - 00:00	2.00	DRILL 7 7/8" PROD HOLE F 1605' TO 1734', CUT 129', AVG 65 FPH, 30 K WOB, 75 RPM, 340 GPM, 1150 PSI PUMP PRES. CIRC RESERVE. MW 8.6 VIS 32 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD. SAFETY BREAK: PINCH POINTS, PROPER PPE.
5	09/13/2011	00:00 - 04:00	4.00	DRILL 7 7/8" PROD HOLE F 1734' TO 1957', CUT 223', AVG 56 FPH, 30 K WOB, 75 RPM, 340 GPM, 1150 PSI PUMP PRES. CIRC STEEL PITS. MW 9.0 VIS 42 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD. SAFETY BREAK: JSA GOOD HOUSE KEEPING, FALL PROTECTION

Operation Summary Report

Well: BRAVO DOME UNIT 1935 312J

Event Name: DEV DRILLING

Project: BRAVO DOME

Prim. Reason: ORIG DRILL VERT

Site: BRAVO DOME C02 UNIT

Start Date: 9/10/2011

End Date: 9/13/2011

Rig Name: TRINIDAD 208

#	Date	Time Start-End	Hrs	Op Details
		04:00 - 08:00	4.00	DRILL 7 7/8" PROD HOLE F 1957' TO 2060', CUT 128', AVG 32 FPH, 30 K WOB, 75 RPM, 340 GPM, 1300 PSI PUMP PRES. CIRC STEEL PITS MW 9.0 VIS 42 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD. IDENTIFIED CIMARRON TOP @ 2038 TOP OF TUBB 2056' TD 2296'
		08:00 - 12:30	4.50	DRILL 7 7/8" PROD HOLE F 2085' TO 2296', CUT 211', AVG 47 FPH, 30 K WOB, 75 RPM, 340 GPM, 1300 PSI PUMP PRES. CIRC STEEL PITS. MW 9.0 VIS 42 DROP SOAP STICKS EVERY CONNECTION & PUMP SWEEP AND SWEEP STICK EVERY THIRD. SAFETY BREAK: LAST WELL ON THE JOB, STAYING FOCUSED
		12:30 - 13:30	1.00	PUMP HI VIS SWEEP, CIRCULATE HOLE CLEAN. SAFETY BREAK: JSA PROPER PPE, TRIPPING PIPE
		13:30 - 16:00	2.50	TRIP OUT OF THE HOLE. BACK REAM TIGHT HOLE FROM 1570' TO 1335'. TAKING PROPER FILL
		16:00 - 16:30	0.50	RU CRT, REMOVE ROTATING RUBBER SAFETY BREAK: JSA RUNNING CASING, ROLLING PIPE
		16:30 - 18:30	2.00	RUN 5.5", 15.5#, J-55, LTC PROD CASING SET DEPTH SET DEPTH GUIDE SHOE.....2287' INSERT FLOAT.....2276' SHOE JT2286' 52 JTS CASING.....2276'
		18:30 - 19:00	0.50	DROP BALL, CIRC & COND HOLE. SIMOP: RU HALLIBURTON SAFETY BREAK: PJSM WITH HALLIBURON, RIG CREW, RM & DSM... JSA CEMENTING.
		19:00 - 20:30	1.50	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 @ 20:22, CIRCULATED 235 SX, 136 BBLS TO SURFACE.
		20:30 - 21:00	0.50	RD HALLIBURTON SAFETY BREAK: JSA RIGGING DOWN, FALL PROTECTION
		21:00 - 00:00	3.00	WAIT ON CEMENT, CLEAN PITS, BEGIN RIG DOWN BACK OUT AND LD LANDING JOINT. ND. RELEASED RIG @ 24:00 HOURS 9:00 HRS, 9/14/2011, NOTIFIED NMOCD, ED MARTIN, SUCCESSFUL COMPLETION

OCCIDENTAL PERMIAN LTD

Casing Report

Well: BRAVO DOME UNIT 1935 312J	Event Name: DEV DRILLING	Report Date: 9/12/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 2
Site: BRAVO DOME C02 UNIT	Start Date: 9/10/2011	Wellbore: 00
Active Datum: Original KB @4,621.40ft (above Mean Sea Level)	End Date: 9/13/2011	

Assembly			Casing Flange		Status History	
Assembly Name:	PRODUCTION CASING	Weight in Slips:	Manufacturer:	WELLHEAD, INC.	9/13/2011	INSTALLED
Nom. Size:	5.500 (in)	Hours Circ:	Model:			
Top MD:	7.00 (ft)	Fluid Lost:	Hanger Model:			
Landed MD:	2,286.61 (ft)	Vol Fluid Lost:	Packoff Model:			
Assembly Length:	2,279.61 (ft)		Top Flange Size/Rating:	11.000 (in)/2000 (psi)		
Liner Overlap:			Btm Flange Size/Rating:	8.625 (in)/2000 (psi)		

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 HANGER	1	0.67	7	7.67	5.500	4.950	4.825	15.50		LTC				
CASING JOINT(S)	54	2,268.07	8	2,275.74	5.500	4.950	4.825	15.50	J-55	LTC				
INSERT FLOAT	1	0.00	2276	2,275.74	5.500	4.950	4.825	15.50	J-55	LTC				
SHOE JOINT	1	10.20	2276	2,285.94	5.500	4.950	4.825	15.50	J-55	LTC				
GUIDE SHOE	1	0.67	2286	2,286.61	5.500	4.950	4.825	15.50	J-55	LTC				

Jewelry							
Accessory Name	Manufacturer	Num	Spacing (ft)	Interval		How Fixed	
CENTRALIZER	HALLIBURTON	17	168.00	Top MD (ft)	Btm MD (ft)		
				226.00	2,275.00		CLAMPED

Remarks

OCCIDENTAL PERMIAN LTD.

Casing Report

Well: BRAVO DOME UNIT 1935 312J	Event Name: DEV DRILLING	Report Date: 9/11/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 1
Site: BRAVO DOME C02 UNIT	Start Date: 9/10/2011	Wellbore: 00
Active Datum: Original KB @4,621.40ft (above Mean Sea Level)	End Date: 9/13/2011	

Assembly				Casing Flange				Status History	
Assembly Name:	SURFACE CASING	Weight in Slips:		Manufacturer:	WELLHEAD, INC.			9/11/2011	INSTALLED
Nom. Size:	8.625 (in)	Hours Circ:		Model:					
Top MD:	7.00 (ft)	Fluid Lost:		Hanger Model:					
Landed MD:	788.93 (ft)	Vol Fluid Lost:		Packoff Model:					
Assembly Length:	781.93 (ft)			Top Flange Size/Rating:	11.000 (in)/2000 (psi)				
Liner Overlap:				Btm Flange Size/Rating:	8.625 (in)/2000 (psi)				

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)	18	737.96	7	744.96	8.625	8.097	7.972	24.00	J-55	STC				
INSERT FLOAT	1	0.00	745	744.96	8.625	8.097	7.972	24.00	J-55	STC				
SHOE JOINT	1	42.97	745	787.93	8.625	8.097	7.972	24.00	J-55	STC				
TEXAS PATTERN SHOE	1	1.00	788	788.93	8.625	8.097	7.972	24.00	J-55	STC				

Remarks

PRIMARY Cementing Report

Well: BRAVO DOME UNIT 1935 312J	Event Name: DEV DRILLING	Report Date: 9/11/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 1
Site: BRAVO DOME C02 UNIT	Start Date: 9/10/2011	Wellbore: 00
Active Datum: Original KB @4,621.40ft (above Mean Sea Level)	End Date: 9/13/2011	

General Job Information

Contractor: HALLIBURTON	Cemented Assembly: SURFACE CASING	Actual TOC MD: 7.00 (ft)
WOC Time:	Assembly Size: 8.625 (in)	TOC Locate Method: Cmt Returns at Surf
Foam: N	Assembly Btm MD: 789 (ft)	
Cement:		
Not Ready to FN	Assembly Set Date: 09/11/2011	Total Slurry in Well:
Static BHT:	Hole Size: 12.250 (in)	Excess Slurry Volume: 480.9 (bbl)
Returns: Full	Volume Lost: 0.0 (bbl)	Est Cmt Vol Returns to Surf: 47.0 (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**7 - 789 ft**

CTU Used:	Top Plug Used: Y	Annular Flow:	Press. Prior to Bump: 235 (psi)
Circulate Prior:	Bottom Plug Used:	Ann Press Held: Y	Bump Press.: 310 (psi)
Circulate Flow Rate:	Bumped Plug: Y	Float Held: Y	Press. Over Pumping: 75 (psi)
Circulate Press:	Plug Catcher Used:	Pill Spotted Below Plug:	Duration Press. Held: 5.0 (min)

FRESH WATER

Pumping Start: 16:59	Slurry Type: SPACER	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End:	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: 17:05	Slurry Type: CEMENT	Total Slurry Volume: 120.2 (bbl)	Slurry Top MD:
Pumping End:	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: 75.6 (bbl)
Foam Job:	Yield: 1.3500 (ft ³ /sk)	Mix Water Ratio: 6.350 (gal/sk94)	Actual Sacks Used: 500
		Mix Method:	
<u>Additive Name</u>	<u>Additive Type</u>	<u>Additive Conc.</u>	<u>Additive Amount</u>
CALC2	ACCELERATOR	2.000 % BWOC	19.00 Sacks
POL-E FLAKES	CIRCULATION LOSSES	0.250 lbs/sk	125.00 lbs

FRESH WATER

Pumping Start: 17:30	Slurry Type: DISPLACEMENT	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End:	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:	

PRIMARY Cementing Report

Well: BRAVO DOME UNIT 1935 312J	Event Name: DEV DRILLING	Report Date: 9/13/2011
Project: BRAVO DOME	Prim. Reason: ORIG DRILL VERT	Report No.: 2
Site: BRAVO DOME C02 UNIT	Start Date: 9/10/2011	Wellbore: 00
Active Datum: Original KB @4,621.40ft (above Mean Sea Level)	End Date: 9/13/2011	

General Job Information

Contractor: HALLIBURTON	Cemented Assembly: PRODUCTION CASING	Actual TOC MD: 7.00 (ft)
WOC Time:	Assembly Size: 5.500 (in)	TOC Locate Method: Cmt Returns at Surf
Foam: N	Assembly Btm MD: 2287 (ft)	
Cement:		
Not Ready to FN	Assembly Set Date: 09/12/2011	Total Slurry in Well:
Static BHT:	Hole Size: 7.875 (in)	Excess Slurry Volume: 1,008.1 (bbl)
Returns: Full	Volume Lost: 0.0 (bbl)	Est Cmt Vol Returns to Surf: 136.0 (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

7 - 2,287 ft

CTU Used:	Top Plug Used: Y	Annular Flow:	Press. Prior to Bump: 575 (psi)
Circulate Prior:	Bottom Plug Used:	Ann Press Held: Y	Bump Press.: 1020 (psi)
Circulate Flow Rate:	Bumped Plug: Y	Float Held: Y	Press. Over Pumping: 445 (psi)
Circulate Press:	Plug Catcher Used:	Pill Spotted Below Plug:	Duration Press. Held: 5.0 (min)

FRESH WATER

Pumping Start: 20:11	Slurry Type: SPACER	Total Slurry Volume: 0.0 (bbl)	Slurry Top MD:
Pumping End:	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:	

CEMENT

Pumping Start: 19:14	Slurry Type: CEMENT	Total Slurry Volume: 202.6 (bbl)	Slurry Top MD:
Pumping End:	Class: 50/50 PREM	Excess Slurry Percent: 400.00 (%)	Slurry Btm MD:
Rate: 5.00 (bbl/min)	Density: 11.10 (ppg)	Excess Measured By:	Total Water Vol Used: 170.3 (bbl)
Foam Job:	Yield: 3.2500 (ft ³ /sk)	Mix Water Ratio: 20.440 (gal/sk94)	Actual Sacks Used: 350
		Mix Method:	
<u>Additive Name</u>	<u>Additive Type</u>	<u>Additive Conc.</u>	<u>Additive Amount</u>
CALC2	ACCELERATOR	2.000 % BWOC	14.00 Sacks
POL-E FLAKES	CIRCULATION LOSSES	0.250 lbs/sk	88.00 lbs

CEMENT

Pumping Start: 19:54	Slurry Type: CEMENT	Total Slurry Volume: 49.4 (bbl)	Slurry Top MD:
Pumping End:	Class: 50/50 PREM	Excess Slurry Percent: 400.00 (%)	Slurry Btm MD:
Rate: 5.00 (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