District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

RECEIVED OCD
2014 APR 29 A 10: 19

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
Oxy USA Inc. 5 Greenway Plaza, Ste. 110 Houston,TX 77046	16696
	3. API Number: 30-021-20638
4. Property Code: 27111	5. Property Name: Bravo Dome Carbon Dioxide Gas Unit — Well No.: 321

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
G	32	21N	32E		1741'	N	1833	E	Union

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

9. Pool Information

Pool Name	Pool Code
Bravo Dome Carbon Dioxide Gas 640	96010

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
N	C	R	P	
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
No	2500	Tubb	N/A	

Depth to Ground water	Distance from nearest fresh water well	Distance to nearest surface water

☐ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Totco	12 1/4	8 5/8	24#	750	400	Surface
Totco	7 7/8	5 1/2	15.5#	2500	610	Surface

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	250/1000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.** Signature: L. Lockett	OIL CONSERVATION DIVISION
Printed name: L. Kiki Lockett	Approved By: Ed Martin
Title: Regulatory Analyst	Title: DISTRICT SUPERVISOR
E-mail Address: Kiki_lockett@oxy.com	Approved Date: 5/5/2014 — Expiration Date: 5/5/2016
Date: 4-25-2014 — Phone: 713-215-7643	Conditions of Approval Attached

18

Conditions of Approval for Application to Drill
30-059-20563
OXY USA Inc.
Bravo Dome Carbon Dioxide Gas Unit
Well No. 2132-321G

1. OXY must comply with all New Mexico Oil Conservation Division rules and regulations as they apply to submission of paperwork required during the life of the well. All C103, C104, C105 forms and required logs must be submitted in a timely manner. Failure to comply with these requirements will result in OXY's loss of its allowable for this well until all paperwork requirements have been met.
2. Pit construction and closure must satisfy all requirements of your approved plan, and OCD Rules 19.15.17 NMAC.
3. Once the well is spud, to prevent groundwater contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-021-20638	96010	BRAVO DOME CARBON DIOXIDE GAS 640

4 Property Code	5 Property Name	6 Well Number
27111	BRAVO DOME CARBON DIOXIDE GAS UNIT	321

7 OGRID No.	8 Operator Name	9 Elevation
16696	OXY USA INC.	4727.6

10 Surface Location

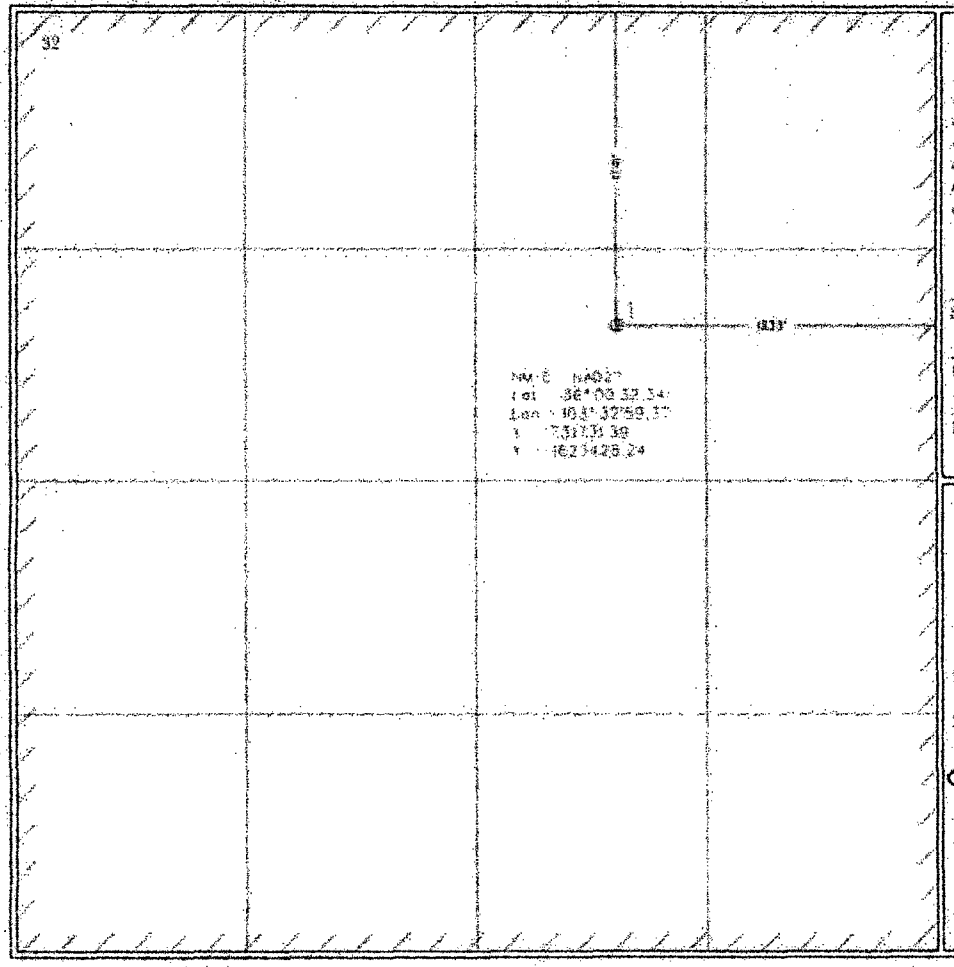
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
G	32	21 N	32 E		1741'	NORTH	1833'	EAST	HARDING

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
640			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



16 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

L Lockett 4/25/14
Signature Date

L. Kiki Lockett
Printed Name

Regulatory Compliance Analyst
E-mail Address

17 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

April 8, 2014
Date of Survey

Signature and Seal of Professional Surveyor

TERRY ASEL
NEW MEXICO
PROFESSIONAL LAND SURVEYOR

Terry Asel 4/24/2014

Terry Asel
Certificate Number 15079

Drilling Engineer: _____ 4/25/2014
Janice Chiu — Date

Drilling Superintendent: _____ 4/25/2014.
Kevin Videtich — Date

Drilling Engineering Supervisor: _____ 4/25/14
Adriano Celli — Date

Drilling Manager: _____ 4-25-14
Mike Tessari — Date

1. GENERAL WELL INFORMATION

1.1 Hole Section Summary

String	Hole Size	Casing	Approx. Depth	Depth Criteria
Surface	12 ¼"	8 5/8" 24# J-55 LTC	750'	Drill to fit casing – deeper is preferred
Production	7 7/8"	5 ½" steel and fiberglass	TD	Please see Supplemental Procedure for Production casing and TD information.

1.2 Casing Characteristics

String	Depth (ft) TVD	OD (in)	ID (in)	Coupling OD (in)	Drift (in)	Weight (#/ft)	Grade	CXN	Burst (psi)	Collapse (psi)	Tension (k-lbs)	Torque (ft-lbs)		
												Minimum	Optimum	Maximum
urface	750'	8.625	8.097	9.625	7.972	24	J-55	STC	2950	1370	244	-	2440	-
Please see Supplemental Procedure for Production casing and TD information.														

1.3 Mud Program

Hole Section	Fluid Type	Mud Weight (ppg)	Funnel Visc (s/qt)	PV	YP	pH	API Fluid Loss	Cl- (mg/L)	Drill Solids (%)	
12 ¼" 0-750'	FW native mud	8.4-9.1	26-32	2-6	1-10	9.5 - 10	NC	-	-	
Some wells will have very sandy surface holes which could experience severe losses and hole instability. If losses occur in the surface hole, go to the steel pits and mud up with gel, using drilling paper as LCM.										
7 7/8" 750'-2000 ft	FW native mud	8.4 – 9.0	26-32	1 – 4	1 – 3	9.5 – 10	N/A	<2000	< 5	
7 7/8" 2000'-TD	FW/KCl	8.4 – 9.0	30-42	5 – 10	8 – 12	9.5 - 10	<15	6 – 8 % KCl	< 5	
We will begin to circulate through the steel pits prior to drilling into the Santa Rosa formation(See Supplemental Procedure for depth) and begin controlling fluid loss to <10cc. Continue using the steel pits until we have drilled through the Glorieta formation (See Supplemental Procedure for depth). We will then switch back to circulating to the reserve pits while drilling through the Yeso formation(400~500 feet thick) and cleaning out the steel pits simultaneously. Then we will switch back to the steel pits and start adding KCl, Poly Pac, and Myacide above the top of Cimarron(Discuss timing with mud engineer). Keep MW down in production hole!										

1.4 BHA Program

Section	Hole Size	Description
Surface	12 ¼"	• 12 ¼" Tri-cone bit • Bit sub w/ float valve • 20 – 6 ½" DC • XO • 4 ½" DP to surface **NOTE:** Buoyed Weight of BHA in 8.4 ppg water is 49.5 klbs

Production	7 7/8"	• 7 7/8" Tri-cone bit • Bit sub w/ float valve • 20 – 6 ½" DC • XO • 4 ½" DP to surface **NOTE:** Buoyed Weight of BHA in 8.4 ppg water is 49.5 klbs

1.5 Survey Program

Hole	Type	Comments
12 ¼"	Totco / Inc Only	At 400' and at casing point
7 7/8"	Totco / Inc Only	One every 400' and at casing point. Frequency should be increased if there are inclination issues.

NOTE: Ensure **all** surveys are recorded on the IADC report and in OpenWells.

1.6 Targets

KB Depth (ft)	Departure from BHL	Comments
See PWIS for TD depth	100' radius	Target is a 100' radius at proposed TD. See Supplemental Procedure for proposed TD for each well.

1.7 Well Head Information

Section	Man	Bottom Flange		Top Flange		Comments
		Size (in.)	WP (psi)	Size (in.)	WP (psi)	
Larkin Head	R&M	8 5/8" 8rd API	2000	10 ¾" 8rd	2000	2 x 2" 2000 psi valves to be installed on both side outlets while drilling. Will leave one valve on one side and a bull plug on the other when rigging down. Ensure casing dope used to make up casing head to pipe. Paint mark on Larkin Head and casing and make periodic inspections.
Xmas Tree	R&M	5" 8rd Pin	2000	5" 8rd Pin	2000	Production tubing will be landed with a stainless steel mandrel. Chrome sub and production valves will be set by Completions group.

1.8 BOP Information

Casing Size (in.)	Wellhead Flange		BOP Stack			Pressure Test (psi)	
	Size (in.)	Pressure (psi)	Type	Size (in.)	Pressure (psi)	Initial Ann	Subsequent Ann
8 5/8"	10 ¾"	2000	**Annular**	9"	3000	250/**1000**	250/**1000**

All BOPE test pressures to be held for a minimum of 5 minutes. Relevant well control equipment shall be tested following replacement of any pressure containing component; or following removal, then reinstallation of BOP stack; or following installation of each casing string; or at the discretion of the Drill Site Manager or Drilling Superintendent. Use a new gasket every time the BOP is installed.

8 5/8" surface shoe at 750 ft and TD of well at 2000 - 2800 ft should be reached within 21 days

MW at TD = 9.0 ppg MASP = 502 psi MASP+500 = 1002 psi

BOP Test to be performed at 1000 psi.

MASP is based on FIT at the shoe (14.8 ppg EMW) and a 0.1 psi/ft gas gradient.

2. STANDARD DRILLING PROCEDURE

2.1 Purpose

The objective of this Drilling Procedure is to provide a consistent and detailed set of drilling operations procedures for the Bravo Dome wells.

2.2 Application

These general guidelines apply to all the wells drilled in the 2011 Bravo Dome drilling program.

2.3 Roles and Responsibilities

Drill Site Manager (DSM) – Responsible for the execution of this Standard Drilling Procedure.

Drilling Field Superintendent (DFS) – Responsible for being first point of contact for troubleshooting and communications between office and field. Will Manage field ops.

Drilling Engineer (DE) – Responsible for keeping this Standard Drilling Procedure up to date and for ensuring the DSM has the latest revision of this Drilling Procedure. Responsible for initiating MOC's for deviations to this Drilling Procedure.

Drilling Engineering Supervisor (DES) – Responsible for reviewing and approving the Standard Drilling Procedure for quality and format compliance.

Drilling Manager (DM) – Responsible for final approval of this Standard Drilling Procedure.

Drilling Superintendent (DS) – Responsible for approving the Standard Drilling Procedure.

2.4 Pre-Rig Move

a) Ensure that the Emergency Evacuation Procedure, the location coordinates, and the helicopter lift zone are identified and documented prior to rig move.

b) Review the Emergency Response Plan and the emergency contact list.

c) Ensure that the following information is received prior to the rig move: directions, permit, Well Specific Supplemental Procedure, and OpenWells file.

d) Drive to the location and note all road hazards and power lines per the "Infield Rig Move Overhead Power Line Inspection Checklist". Coordinate with DFS.

e) Ensure that the pits are lined with 20 mil plastic and filled with fresh water.

f) Have a JSA from the rig contractor prior to the rig move.

g) Conduct a pre-job safety meeting with all persons (including 3rd party personnel) involved in rig move prior to mobilization. Update the JSA as necessary.

2.5 Rig Move & Pre-spud (OpenWells Phase: 01MIRU)

a) Move the rig from the previous location per the rig contractor's move plan.

b) In the morning report, note any downtime or waiting conditions during the move (including waiting on trucks, waiting on daylight, waiting on location, or impassible road conditions).

c) Notify the New Mexico Oil and Gas Conservation Division (NMOCD) prior to spudding the well. Note the time of notification and the name of the operator in the morning report.

d) Complete the pre-spud rig inspection with the rig manager.

2.6 Surface Hole Drilling (OpenWells Phase: 14SUDR)

a) Anticipated Problems

Type	Comments
Losses	There is a chance of major losses in the surface hole. Be prepared to go to the steel pits and mud up to help control losses. Refer to the mud program for LCM pills and sweeps. Drilling paper should be used as a preventative measure.

b) Make up the 12 ¼" surface hole BHA as per **Section 1.4.**

c) Spud well with low RPM and flowrate until hole is established. Increase parameters as conditions allow.

d) Drill the surface hole with 600 GPM flowrate and 100+ RPM to TD of ±750 ft MD.

- Watch returns and monitor hole conditions while spudding and beginning to drill ahead. Due to the sandy nature of the area, many surface holes may require going to the steel pits and mudding up. Refer to the mud program if this is required and begin adding gel and drilling paper.
- Take a survey at 400 ft and section TD. Immediately report any surveys over 2 degrees to the DS.
- Monitor pick up, slack off, torque, returns, and standpipe pressure to evaluate hole cleaning.
- Pump sweeps as per mud program every 100 ft or as required.
- **SIMOPS:** While drilling the surface hole – strap, inspect, and drift the surface casing; ensure that the necessary centralizers are onsite. Visually inspect float equipment for damage; ensure that manufacturer model and numbers match with the descriptions below.

e) A wiper trip is not required to run casing. Pump a viscous sweep at TD prior to tripping out of the hole. Circulate a minimum of 2 x bottoms up at TD.

f) POOH and lay down DP and BHA.

g) Notify the NMOCD of running and cementing surface casing if not done prior to spud. Note notification in morning report. **Coordinate with Halliburton field hands in Bravo Dome in order to ensure no downtime.**

2.7 Surface Hole Casing (OpenWells Phase: 14SURC)

a) Conduct a pre-job safety meeting with the rig crew. Rig up casing running tools to run 8 ⅝" 24 ppf J-55 LTC casing.

- Have a circulating swedge, swivel joint, and 2" lo-torq available on the rig floor; function test low-torque valve on XO's.

- Visually inspect float equipment for damage

b) Make up and run 8 5/8" 24 ppf J55 STC casing as follows:
   - Guide Shoe – Texas Pattern (thread locked)
   - 1 joints 8 5/8" 24 ppf J55 STC casing
   - Float Collar - Halliburton Insert Float (thread locked)
   - 8 5/8" 24 ppf J55 STC casing to surface
     - Bow spring centralizers to be installed as follows:
       - 1 bow spring on collar stop 10' above shoe
       - 1 bow spring on joint above shoe joint
       - 1 bow spring on every fourth joint to surface

c) Plan casing space out with pup joint to set wellhead 1 ft below ground level.

d) Wash down with the last joint of casing and tag bottom lightly.

e) Pick up and space out to place wellhead 1 ft below ground level. Mark the pipe at the rotary table when wellhead is at desired setting depth.

f) Circulate 2 x bottoms up at max rate allowable while reciprocating casing to condition mud.

g) **SIMOPS:** Conduct pre-job safety meeting with cementing crew prior to cement job while circulating. Continue reciprocating and circulating during safety meeting.

h) Rig up to displace either with cement or rig pumps.

i) Rig up cementing head (with top wiper plug pre-installed in cement head, DSM to verify installation) and surface lines. Pressure test lines to 1000 psi above anticipated pump pressure; ensure that surface equipment is isolated from downhole while testing.

j) Pump 20 bbl of fresh water spacer.

k) Mix and pump cement as follows:

Cement Design 8 5/8" Surface Casing								
Stage	Weight (ppg)	TOC (ft)	BOC (ft)	Hole Size (in)	% Open Hole Excess	Cement Volume (sacks)	Slurry Volume	Remarks
Lead	14.8	Surface	750	12.25	150	400	96 bbls	Should have full returns

LEAD SLURRY	
Cement Type:	Premium Plus
Accelerator:	2% $CaCl_2$
Additive:	0.125 lbm/sk Poly-E-Flake
Mix Water:	6.35 gal/sack Freshwater
Slurry Density:	14.8 ppg
Yield:	1.35 ft^3/sack
Thickening Time:	2:10
Compressive Strengths:	24 hours = 1808 psi

Pumping Schedule

Fluid #	Fluid Type	Fluid Name	Estimated Avg Rate bbl/min	Downhole Volume	Time min
1	Spacer	Spacer	8	20	2.5
2	Cement	Lead Cement	8	96	12
4		Displacement Fluid (Freshwater)	8	45	5.7
			Job Time		20.2
			Contingency Time		60

h) Drop top wiper plug and displace at 8 bpm with using rig pumps. (Leave line open to cementing unit to record displacement in Halliburton record of cement job.)

i) Decrease rate to ~2 bpm for last 5 bbls. **DO NOT OVERDISPLACE MORE THAN ½ SHOE TRACK (1.3 BBLS).**

j) Bump plug and pressure up to 500 psi over final displacing pressure for 5 minutes, then bleed back to 0 psi. Check for back flow. Flow check annulus and confirm fluid level is holding at surface and record results.

k) Report cement returns throughout cement job and report final volume of returns in both barrels and sacks in morning report.

l) If there are no cement returns to surface, a top job with 1" tubing will be necessary. Discuss remedial actions with drilling superintendent before calling the NMOCD.

m) Conduct PJSM; rig down cementing head and lines. Pump out cellar and wash out cement as required.

n) Back out landing joint and install BOPe adapter flange (10 ¾" 8rd box bottom x 9" 3k top flange).

o) Install 2 x 2" 2000 psi valves on both side of wellhead.

p) **Measure hang off point inside wellhead to rotary table and record for later.**

q) Nipple up the 9" 3M BOPe per **Sec 1.8 BOP Information.**

- SIMOPS: Make up the test plug offline with one joint of DP below the test plug. (The joint of drillpipe is used to prevent the test plug from becoming cocked.)

r) Run a test plug and test the BOP to 250/1000 psi for 5 minutes and chart the same. Ensure that the casing valve is open for the duration of the test. Record each test on the morning report. Consult the drilling superintendent if you have questions. See **Sec 1.8 BOP Information** for test assumptions.

s) Retrieve the test plug and file the BOP test chart in the well file.

t) PU 7 ⅞" production hole BHA per **Sec. 1.4 BHA Program**

u) **NOMCD requires 8 hr WOC time from the time cement is in place, prior to testing casing.**

v) Tag top of cement; note same on morning report. If TOC is >150' above the float collar, test casing to 1000 psi for 5 minutes and drill cement and float collar. If TOC is <150' above the float collar, the 5 minute test will not be done. Commence drilling down to float collar.

- NOTE: the 5 min test is done in order to eliminate potential leak paths if the casing does not test after drilling out cement and float – when cement is found high.

w) Tag float collar and pressure test casing to 1000 psi for 30 minutes on a chart. Surface pressure should not decline more than 10% in 30 minutes. If casing test fails, notify superintendent prior to drilling out shoe track.

2.8 Production Hole Drilling (OpenWells Phase: 31PRDR)

a) Anticipated Problems

Type	Comments
Lost Circulation (1000 – top of Cimarron)	-Partial to total losses can be experienced in Bravo Dome and are not necessarily tied to a specific formation. Be prepared at all point of the production hole. A decision tree for LCM should be provided for extreme to total losses. Seepage to minimal losses will be handled per the mud program. Keeping mud weight as low as possible and good hole cleaning are key. Max flow rate and high RPM should be used at all times and sweeps pumped every 100 ft.
Calling top of Cimarron Formation (See Supplemental Procedure for depth)	-Identifying the top of the Cimarron formation is key for the Bravo Dome wells. In wells where casing is top set, it will determine the TD of the well. In wells where fiberglass casing is run, it will determine where to crossover from fiberglass to steel casing. **The DSM needs to be on the rig floor and monitoring ROP prior to anticipated top of Cimarron depth.** The Cimarron is a hard anhydrite and the ROP will drop significantly while drilling it. Utilize reduced RPM and increased WOB to drill this section. Make note of top and bottom of Cimarron depths.

b) Drill the production hole section to TD as referenced in the Supplemental Drilling Procedure.

- Pump at max rate practical as hole dictates to optimize hydraulics, hole cleaning, and ROP; target flow rate is 450 GPM.
- Refer to **Table 1.3 Mud Program** and the Supplemental Procedure for determining mud and circulation criteria
- Maintain surface RPM 60 – 80 rpm
- Have LCM on location, per mud program, at all times during drilling.
- Take surveys every 400' at TD. Frequency of surveys may increase if inclination becomes an issue.
- Monitor and record pick up, slack off, and rotary torque every stand and evaluate for hole cleaning
- **SIMOPS:** While drilling production hole – strap, inspect, and drift 5 ½" 17# casing and ensure that centralizers are on site.

c) 50 ft before the predicted top of the Cimarron (see Supplemental Procedure for each well's depth) lock in drilling parameters and begin monitoring ROP closely. When the top of the Cimarron is encountered, ROP will drop significantly.

d) Note the top of the Cimarron. Reference the predicted Cimarron thickness (given in the Supplemental Procedure) and be prepared for the next ROP change at the base of the Cimarron. Note the base of the Cimarron depth where ROP will begin to increase

- NOTE: The first 10 ft of the Tubb is not good reservoir rock and while it will drill faster than the Cimarron, a second increase in ROP should be seen below that 10 ft., once good rock is encountered
- Make note of all of these depths. Depending on the production casing program given in the Supplemental Procedure, this data will be critical.

e) At TD pump a viscous sweep and circulate a minimum of 2 x bottoms up. Continue circulating as required, until hole is clean.

f) Check for flow TD.

g) Pull out of hole laying down drill pipe and BHA - consult with DS and DE about need for wiper trip after logging on wells where OH logs are run.

2.9 Production Evaluation (OpenWells Phase: 31PREV)

c) Refer to Supplemental Procedure for OH logging requirements.

2.10 Production Casing (OpenWells Phase: 31PRRC)

a) Conduct pre-job safety meeting and rig up casing running tools.

- Have a circulating swedge, swivel joint, and 2" low-torque available on the rig floor; function test low-torque valve on XO's.
- Visually inspect float equipment for damage and proper operation.

b) Make up and run casing as per Supplemental Procedure.

c) Mix and pump cement as per Supplemental Procedure. & Production

Cement Design 5 1/2" Surface Casing								
Stage	Weight (ppg)	TOC (ft)	BOC (ft)	Hole Size (in)	% Open Hole Excess	Cement Volume (sacks)	Slurry Volume	Remarks
Lead	11.1	Surface	2286	7.875	400	460	263 bbls	Should have full returns
Tail	13.2	2286	2600	7.875	400	150	50 bbls	Should have full returns

LEAD SLURRY	
Cement Type:	Premium Plus
Accelerator:	2% $CaCl_2$
Additive:	0.25 lbm/sk Poly-E-Flake
Mix Water	20.44 gal/sack Freshwater
Slurry Density:	11.1 ppg
Yield:	3.25 ft^3/sack
Tail SLURRY	
Cement Type:	Premium Plus
Accelerator:	2% $CaCl_2$
Additive:	0.25 lbm/sk Poly-E-Flake
Mix Water	9.95 gal/sack Freshwater

Slurry Density:	13.2 ppg
Yield:	1.85 ft^3/sack

d) After production casing is ran and cemented: nipple down BOPe, remove both 2" valves from one side of wellhead and replace with bull plug, remove one 2" valve from other side of wellhead, leaving one valve in place. Secure well.

e) Prepare for rig move.

3. REFERENCE DATA

- Contact List / Emergency Numbers
- Reporting requirements
- Wellhead Diagram
- Well Specific Attachments List

3.1 Contact List

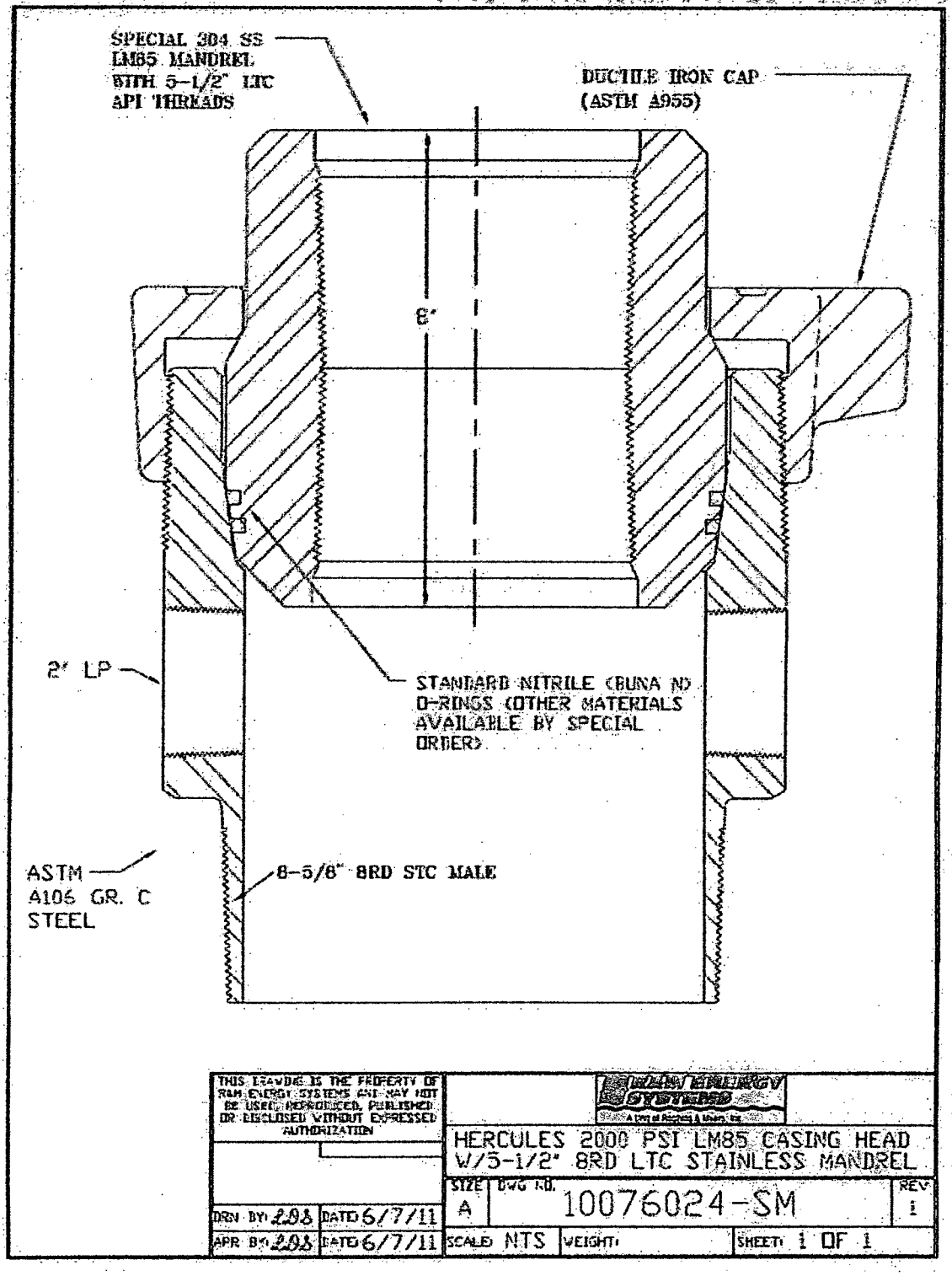
Position	Contact Person	Phone Number(s)
DSM Office	Rig 216	
Drilling Superintendent	Kevin Videtich	Office: 713-985-1929 Cell: 806-891-2000
Drilling Manager	Mike Tessari	Office: 713-840-3092 Cell: 713-449-3666
Drilling Engineering Supervisor	Adriano Celli	Office: 713-985-6371 Cell: 713-562-3051
Drilling Engineer	Janice Chiu	Office: 713-215-7867 Cell: 281-433-9139
HES Supervisor	Mike Miller	Cell: 432-634-4882
Drilling Construction Specialist	Dusty Weaver	Cell: 806-893-3067 Office 432-685-5723
Bravo Dome Plant Manager	Eddie Corely	Cell: 575-799-6849 Office: 575-374-3052
Bravo Dome Production Coordinator	Lynn Clay	Cell: 806-367-1488 Office: 575-374-3058
Bravo Dome Plant Specialist	Charles Terry	Cell: 806-252-2801 Office: 575-374-3055
Bravo Dome Admin.	Sharon Reid	Cell: 575-309-9767 Office: 575-374-3000
Production/Reservoir Engineer	Al Giussani	Cell: 806-638-1296 Office: 806-894-0200

Please see Bravo Dome Contact List for other contacts. Each rig and DFS will have a copy.

3.2 Reporting Requirements

Report	Frequency	Notes
Morning Report (Adobe Acrobat File)	Daily	Send by email at 0600 hrs to OP-Drilling Morning Reports
Morning Report (Openwells file)	Daily	Synchronized to Houston OpenWells
24 Hour Plan	Daily	Send by email to Superintendent, Engineer, Drilling Manager
Afternoon Report	Daily	Send by email at 1500 hrs to OP-Drilling Morning Reports
Mud Reports	Daily	Send to Engineer & Superintendent

3.3 Wellhead Diagram



4. WELL SPECIFIC ATTACHMENTS LIST

- Bit Specifications
- OpenWells File
- Permit/Plat

2014 BRAVO DOME DRILLING PAD