Phone: (575) 393 District II 811 S. First St., A				Energy 1	Minerals a	and Nat	ural Re	sources				
Phone: (575) 748 District III				Ċ	Dil Conser	vation	Divisior	1 ·		MENDED REPORT		
1000 Rio Brazos Phone: (505) 334				1	220 South	St. Fra	ncis Dr	•				
<u>District IV</u> 220 S. St. Franc Phone: (505) 476					Santa F	e, NM 8	87505					
APPL	CATIC	N FOR	PERMIT T	O DRILL,	RE-ENT	ER, DF	EPEN	, PLUGBACI	K, OR ADI	D A ZONE		
			Operator Name Oxy USA	Inc.					<sup>2</sup> OGRID Numbe 16696			
		5 G	Greenway Pla Houston,TX	za, Ste. 110 (77046					API Number			
* Prop	erty Code		,		Property Name			30-05	59-205 We	56 ell No. 271		
27111 Bravo Dome Carbon I <sup>7.</sup> Surface L							t					
UL - Lot G	Section	Township 23N	Range 32E	Lot Idn	Feet from		'S Line	Peet From	E/W Line	County Union		
	· · · · · · · · · · · · · · · · · · ·			* Propose	d Bottom H	Iole Loca	ation					
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N	'S Line	Feet From	E/W Line	County		
		I		<sup>9.</sup> Po	ol Informat	tion		I	·· ·· ·· <del></del>	l		
		~~~~~	· · · · ·	Pool						Pool Code		
				Bravo Dome Carbo						96010		
Additional Well I 11. Work Type 12. Well Type 13. Cable/R								14. Lease Type	<sup>15</sup> Grou	und Level Elevation		
. N C R				R <sup>18.</sup> Formation			P <sup>19.</sup> Contractor		<sup>20.</sup> Spud Date			
				Tubb			N/A		Spud Date			
Depth to Gro	und water		Dista	nce from nearest fi	resh water well	l		Distance t	o nearest surface	water		
]We will b	e using a d	closed-loop :	system in lieu of	f lined pits	•							
-			21.	Proposed Cas	sing and Ce	ement Pr	ogram					
Туре	Hol	e Size	Casing Size	Casing Wei				Sacks of C	ement	Estimated TOC		
Totco	12	1/4	8 5/8	24#		750		400	)	Surface		
Totco	7	7/8	5 1/2	15.5	#	2500 61		610	).	Surface		
			Casin	g/Cement Pro	ogram: Add	ditional (	Commen	ts				
			· · · · · ·									
			22.	Proposed Blo	wout Preve	ention Pr	ogram			·		
	Туре		\	Working Pressure			Test Pres		Ma	nufacturer		
Annular 3000							250/1	000		<u> </u>		
<sup>3.</sup> I hereby c	ertify that the	he informatio	n given above is t	rue and complete	to the	•						
9.15.14.9 ()	tify that I	nd belief. have complie , if applica	ed with 19.15.14.	9 (A) NMAC	and/or A	OIL CONSERVATION DIVISION Approved By:						
Signature: Cockett								TRIATATI	TANAA	<del>n</del>		
Printed name	ockett	-		T	itle:	- 119	IKIPIAN	ekvisu	κ			
Title: Regula	tory Analys	t			A	pproved D	ate: 5/3	5/2014 E	piration Date: S	5/5/2016		
E-mail Addr	ess: Kiki_lo	ckett@oxy.co	om	· <u>·····</u>			>					
Date: 4-25-2014 Phone: 713-215-7643							Conditions of Approval Attached					

<u>Conditions of Approval for Application to Drill</u> 30-059-20556 OXY USA Inc. Bravo Dome Carbon Dioxide Gas Unit Well No. 2332-321G

- 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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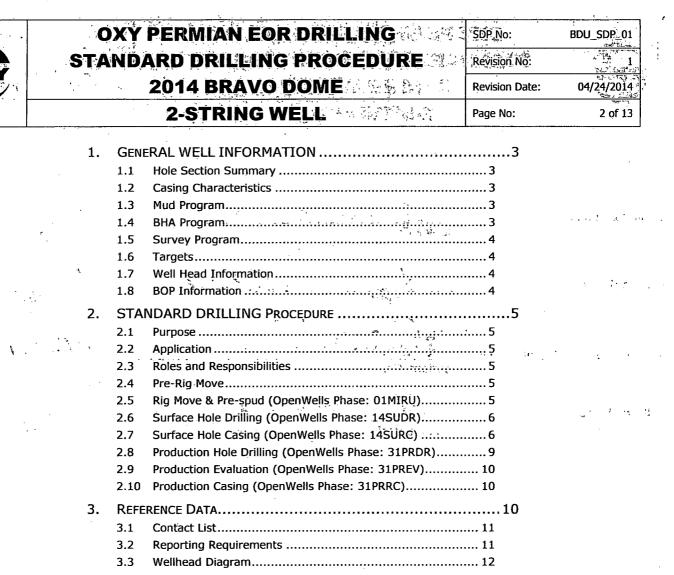
District I 1625 N. French D Phone: (575) 393–6 District II 811 South First, Ar Phone: (575) 748–1 District III 1000 Rio Brazos F Phone: (505) 334–6 District IV	5161 Fax: (5 tesia, NM 8 283 Fax: (5 Rd., Aztec, NI	75) 393-0720 88210 575) 748-9720 M 87410	Ene	OIL C	State of Ne rals & Natur ONSERVAT 20 South S Santa Fe, N		Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office					
1220 S. St. Francis Phone: (505) 476-3								AMENDED REPORT				
		WE	LL LO	LOCATION AND ACREAGE DEDICATION PLAT								
1	API Numb	cr		<sup>2</sup> Pool Cod	e		<sup>3</sup> Pool N	ame				
30-05	9-2	0556	6 96010 BRAVO DOME CARBON						DIOXIDE GAS 640			
<sup>4</sup> Property									6	Well Number		
2711	1	B	RAVO	DOME	CARBON	DIOXIDE G	SAS UNIT			321		
7 OGRID					* Operato					<sup>9</sup> Elevation		
1669	6				OXY US			5221.0				
					<sup>10</sup> 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	23 N	32 E		1860'	NORTH	2116'	EA	ST	UNION		
		1	n Bott	om Hol	e Location	If Different Fre	om Surface	J		J		
UL of lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East West	line	County		
12 Dedicated Acro	es 18 Joint	or Infill 11 0	Consolidation	n Code 15 C	order No.	1		1		1		
640												
No allowable wi	ll be assig	ned to this	completion	n until all in	terests have bee	n consolidated or a	non-standard	unit has bee	en appr	oved by the		
division.												
32	11	111	111	777	11/1	11111	IT OPEI	RATOR	CERTI	FICATION		
1							1			herein is true and complete		
1										t this organization either crest in the land including		
1							the proposed both	m hole location	or has a right	a to drill this well at this f such a mineral or working		
V					098		interest, or to a p	oluntary pooling a	greement or a	compulsory pooling		
V								tiered by she divis	aon.	1 1		
V							J.J.	Jack	nel	11/20/10		
1							Signature (	ZOCK	etr	4/25/14		
1					1	216-	A Security	ki Locl		Date		
1				NM-E N	AD27		Printed Nam	)e				
				Lot - 36	° 10'57.50" 3° 33'00.24"				mpliar	nce Analyst		
				x - 7311 Y - 1886	50.91		E-mail Addre	55				
7							Barrow	TUOD	orpor			
1										IFICATION		
1								ify that the wo		shown on this actual surveys		
1							made by me	or under pry	Rupervisio	and that the		
V							same is true	and context to	A mint	oknog beling.		
V							Date of Survey	April	1.	14		
7							Signature and	D	(15079 sonal Sury			
V							Constant and	12	-	18		
1000							Ta	A Yor	A	St.I.		
1							000	Juce	ALLAN	2/24/2014		

Terry Asel Certificate Number 15079

* 11 OUS 7 11	OXY PERMIAN EOR DRILLING	SDP No:	BDU_SDP_01
	STANDARD DRILLING PROCEDURE	Révision No:	1
	2014 BRAVO DÔME	Revision Date:	04/24/2014
	2-STRING WELL	Page No:	1 of 13
		: -	
Drilling Engineer	r: Janice Chiu	4 /25	<b>12014</b> Date
Drilling Superint	endent: Kevin Videtich	4/2	<u>5/2014,</u> Date
Drilling Engineer	ing Supervisor:	6/2	25/14 Date
Drilling Manager		4-	<b>25-14</b> Date

Mike Tessari

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#### OXY PERMIAN EOR DRILLING SDP No: STANDARD DRILLING PROCEDURE 2-STRING WELL Page No:

BDU SDP 01 Revision No: **Revision Date:** 04/24/2014 3 of 14

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#### **GENERAL WELL INFORMATION** 1.

#### **Hole Section Summary** 1.1

生产 建物 化试验 网络小子小 的复数形式 化乙烯酸盐

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String		Casing	Approx. Depth	Depth Criteria
Surface	12 ¼″	8 ‰" 24#Ĵ-55 LTC	750′	Drill to fit casing – deeper is preferred
Production	7 <sup>7</sup> / <sub>8</sub> "	5 ½" steel and fiberglass	TD	Please see Supplemental Procedure for Production casing and TD information.

1.1.1

#### 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)	Ti Minimum		iš) Maximum
Surface	750'	8.625	8.097	9.625	7:972	24	J-55	STC	2950	1370	• • 244		2440	-
				Please see	Supple	mental Pro	ocedure f	or Prod	duction d	casing and T	D informat	ion .		

#### 1.3 Mud Program

d:	· • ^··			· · · ·		÷.	۵	۰. ۲
Hole Section Fluid Type	Mud Weight (ppg)	Funnel Visc (s/qt)	ΎР	рĦ	API Fluid Loss	Cl- (mg/L)	Drill Solids (%)	
12 ¼″ FW native 0-750′ mud	8.4-9.1	26-32 2-6	1-10	9.5 - 10	NC	· ·	-	. '

100 m 100 m 100 m 100 m

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 <u>%</u> " 75 2000 f	0/-, FW native	8:4 - 9.0	26-32	4 - 4	1 - 3	9.5 – 10	Ń/A	<2000	< 5	
7 7/8″ 20 - TD	50' FW/KCI	8:4 - 9.0	30-42	5 - 10		9.5 - 10	<u>,</u> <15	6 - 8 % ĶĊI	< 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 KCI, Poly Pac, and Myacide above the top of Cimarron(Discuss timing with mud engineer). Keep MW down in production hole!

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#### 0.3 1.4 BHA Program

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10		a the second	ANNO AND
· · · -	Section	Hole Size	watch are also a to constant a second of the device second the to
-		1. 21	Description
.);	Present instructure	BB referrance	and the contraction marked ask and considered a second as a second as a second ask and a second ask as a second
-			● 12 ¼″ Tri-cone bit
	•		[
			Bit sub w/ float valve
			• 20 - 6 1/2" DC
	Surface	12 ¼″	
	-		• XO
			• 4 1/2" DP to surface
		<u> </u>	NOTE: Buoyed Weight of BHA in 8.4 ppg water is 49.5 klbs

	k k		
1 L. D.	OXY PERMIAN EOR DRILLING	SDP No:	BDU_SDP_01
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	2-STRING WELL	Page No:	4 of 14

Production       7 %"       • 20 - 6 ½" DC         • XO       • XO         • 4 ½" DP to surface <b>NOTE:</b> Buoyed Weight of BHA in 8.4 ppg water is	anso 3444 200 Rose & Alaot A	* د ۱
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1.5	Survey Program	UUULAS Sec. 5	the 1933	
Но	le Туре	Comments	and a second	
12	1/4" Totco / Inc Only	At 400' and at casing point		· · · · · · · · · · · · · · · · · · ·
77	/ " Totco / Inc	One every 400' and at casing point. Frequency should be	increased if	there are
/ "	<sup>8</sup> Only	inclination issues.		

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

#### 1.6 Targets

	1.6 ···· Targets	· 小山的的下,小山的山上上来	· hittar	Annual I. 10. 18 Annual I. 10. 18 Annual Annual I. 10.
[	KB Depth (ft)	Departure from BI	<b>HE</b> ()	Comments
	See PWIS for TD			Target is a 100' radius at proposed TD: See Supplemental
	depth	100' radius	· · · .	Procédure for proposed TD for each well.
•	1.7 Well Head Inf	ormation		n an 1977 ann an 1979. I 1941 An 1979 an 1979 I 1979 An 1979

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#### 1.7

	ng n	Bottom F	lange	Top F	lange	মার্বা কর্বার্থ প্রায় প্রায় সালে ব্যায় বিশেষ বিদ্যালয় বিশেষ
Section	Man	Size	WP .	Size	WP	Comments
		(in.)	(psi)	(in:)	(psi)	ى ئەربىيە بىرى بىرى بىرى بىرى بىرى ئەر بەر ئەر بەر ئەر بىرى ئەر بىرى بىرى بىرى بىرى بىرى بىرى بىرى بى
Larkin Head	R&M	8 5⁄8" 8rd API	2000	10 ¾″ 8rd	2000	<ul> <li>2 x. 2, 2000 psi valves to be installed on both side outlets while drilling. Will leave one valve on one side and a buil plug on the other when rigging down.</li> <li>Ensure casing dope used to make up casing head to pipe.</li> <li>Paint mark on Larkin Head and casing and make</li> </ul>
		5″ 8rd		5″ 8rd		periodic inspections. Production tubing will be landed with a stainless
Xmas Tree	R&M	9 oru Pin	2000	Pin	2000	steel mandrel. Chrome sub and production valves will be set by Completions group.

## 1.8 BOP Information

		~	e i de el Sar esta bate 🖉 🛌	3 10 A 1 3 A	to an enter the transfer	to the set of the	and the contract of the second second	the and strong the state of the strong
Casing	Wellhê	ad Flange 🗄	Same BC	)P Stack	C. San Starba		Pressure	Test (psi)
Size	Cizo	Droccuro		Siza ·	Dressure	1944 - T	Initial	Subsequent
-312C	-SIZE	-FICSSUIC	Туре	Cir A	(nci)	من المعدد حالية		and the second secon
	A STATE	V S(DSI)	Representation in Vous	A March 2		· · · · · · · · · · · · · · · · · · ·	A STATE AND A STATE	All and a second second
·8 5⁄8″	10 3⁄4″	- 2000	Annular	- <b>Q</b> "	3000		250/ <b>1000</b>	250/1000
<b>9</b> ,78	10 /4	2000	Annea		5000		23072000	250, 2000

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. and a state of the se

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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 - 502 psi - 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

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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 quidelines 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 3<sup>rd</sup> 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.

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- 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

· · · · · · · · · · · · · · · · · · ·	and weter with the second with the state with a straight the second state in the second state and
Туре	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
i ∴ .	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  $\pm 750$  ft MD.
  - Watch returns and monitor hole conditions while spudging 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.

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4

- Take a survey at 400 ft and section TD. Immediately report any surveys over 2 degrees to the DS.
- Mönitor 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.
- 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 5%" 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.

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	<ul> <li>Visually inspect float equipment for damage</li> </ul>		· · · · · · · · · · · · · · · · · · ·
-	Make up and run 8 5⁄8″ 24 ppf J55 STC casing as follows:		
	<ul> <li>Guide Shoe – Texas Pattern (thread locked)</li> <li>1 joints 8 %" 24 ppf J55 STC casing</li> </ul>	• • • • • • • • • • • • • • • • • • •	

- Float Collar Halliburton Insert Float (thread locked)
  - 8 5%" 24 ppf J55 STC casing to surface

1.14

- 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.
- 2 of) Girculate 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) Right 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:

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× -[	Stage	Weight	TOC	BOC	Hole	% Open	Cement	Slurry	Remarks
		(ppg)	(ft)	(ft)	Size	Hole	Volume	Volume	
		at 218 Samen are	للماسية ومعارم مرا	ر رسید ایمانی ایر ایر ایر ایر	_ (in)	Excess	(sacks)		1 Topic Street
	Lead	14.8	Surface	750	12.25	150	400	96 bbls	Should have full
					<b>^</b> ·	Alternation	zien lat i jiza a	14 14 14 14 14 14 14 14 14 14 14 14 14 1	returns
	L	AD SLUP	RRY		•		,		· · · ·
t .	i un f	Ceme	ent Type:	Premiu	m Plus	t git su Apple -			2
I	t. <sup>3</sup>		Additive:	0.125	lbm/sk Po	oly-E-Flake		* t	
·	trans et	<b>. .</b>	lix Water	6.3 <u>5</u> g	al/sack Fi	reshwater		2	1 <b>.</b>
- 4ª	un de K	Slurry	Density: Yield:	_14.8 p 1.35 ft	pg <sup>3</sup> /sack	for provide a set of		lon in san grath a thr	6 3 . 1 . 1 2 . 1 . F
		Thickeni	na Timo:	2.10	•			-	
	Comp	ressive S	trengths:	24 hou	rs = 180	8 psi		• • • • •	1 - 191
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#### Pumping Schedule

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Fiuid	Fluid	Fluid Name	stimated Rate bbl/n	Avg Do nin V	wnhole	Time
1	Spacer	Spacer	Same in the second states		·20	2.5
2	Cement 🤌	Lead Cement	8		96	12
4	1. 15	Displacement Fluid (Freshwater)	8	م يەت مىر مە بىرا مەل يىر	45	5.7
			Jo	b Time		20.2
	<ol> <li>F<sup>*</sup> (1, 1, 1, 1)</li> <li>F<sup>*</sup> (1, 1, 1)</li> </ol>		Contin	gency Ti	me	60
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- h) Drop top wiper plug and displace at 8 bpm with using frig 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 1/2 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.
- 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.
- s) Retrieve the test plug and file the BOP test chart in the well file.
- t) PU 7 %" 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.

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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

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

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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

: 1

- 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 1/2" 17# casing and ensure that centralizers are on site.

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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.

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	<ul> <li>Note the top of the Gimarron. Reference the predicted Cima</li> <li>Supplemental Procedure) (and the prepared for the next ROP</li> <li>Cimarron: Note the base of the Cimarron depth where ROP will</li> </ul>	change at	the base of th
،	<ul> <li>NOTE: The first 10 ft of the Tubb is not good reserved faster than the Cimarron; a second increase in ROP of t., once good rock is encountered</li> </ul>		
. 1 <sup>2</sup>	Make note of all of these depths. Depending on the given in the Supplemental Procedure, this data will b		
<b>e)</b>	At TD pump a viscous sweep and circulate a minimum of circulating as required, until hole is clean.	2 x bottom	is up. Continu
f)	(Theck for flow 11)		
g)	Pull out of hole laying down drill pipe and BHA - consult with wife wiper trip after logging on wells where OH logs are run.		
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## 2.9 Production Evaluation (OpenWells Phase: 31PREV)

tc) \* Référito 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  $2^{\prime\prime}$  low-torque available on the rig

- - 1

- floor; function test low-torque valve on XO's and the set of the s
- Vişûally inspect float equipment for damage and proper oberation.

b) The Make up and run casing as per Supplemental Procedure:

c) Mix and pump cement as per Supplemental Procedure. 2 Partuction

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s,	Stage	Weight	TOC					Slurry	Remarks
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•			(in)         Excess         (sacks)           Surface         2286         7,875         400         460         263 bbls         Should have full returns           2286         2600         7.875         400         150         50 bbls         Should have full returns						
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	Tail	13.2	2286	2600	7.875	400	150	50 bbls	Should have full
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# OXY PERMIAN EOR DRILLING SDP.No: BDU\_SDP\_01 STANDARD DRILLING PROCEDURE Revision No: 1 2014 BRAVO DOME Revision Date: 04/24/2014 2-STRING WELL Page No: 12 of 14

Contact List	54 10-17-17-18	i di sufficiencia affectaria. Natura i catalità
Position	Contact Person	Phone Number(s)
DSM Office	Rig 216	
Drilling Superintendent	KevinVidetich	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 Co	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

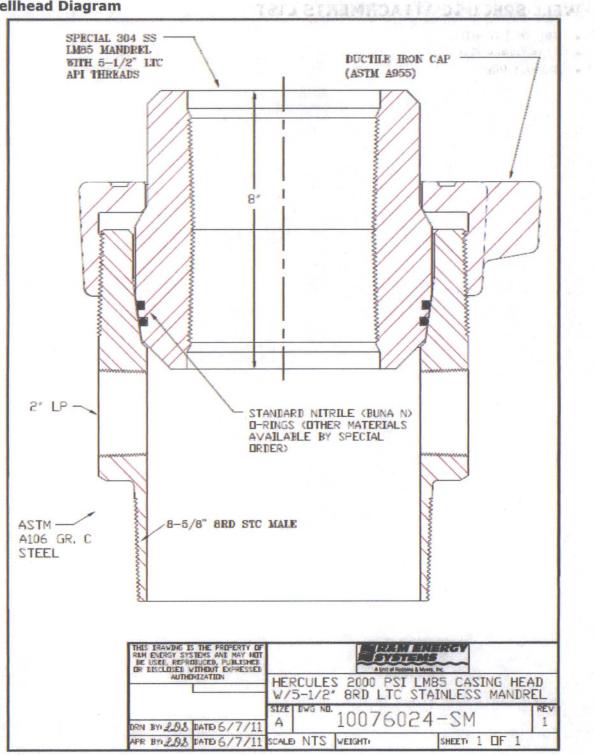
Please see Bravo Dome Contact List for other contacts. Each rig and DFS will have a copy.

## 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

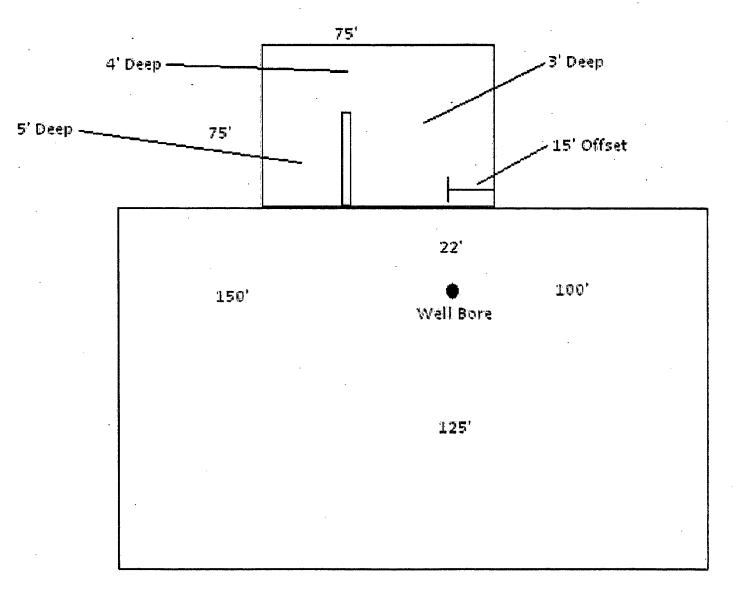


#### 3.3 Wellhead Diagram



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2014 BRAVO DOME DRILLING PAD

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
ı. Operator: Oxy USA INC OGRID #: 16696
Address: <u>5 Greenway Plaza, Ste. 110, Houston, Tx 77046</u>
Facility or well name: <u>Bravo Dome Unit</u> <u>2332-32</u>
API Number:       30-059-20556       OCD Permit Number:         U/L or Qtr/Qtr       Section       32       Township       23 N       Range       32 E       County:       UNION
Center of Proposed Design: Latitude Longitude NAD: 1927 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
☑ Pit:       Subsection F, G or J of 19.15.17.11 NMAC         Temporary:       ☑ Drilling       ☐ Workover         □ Permanent       □ Emergency       □ Cavitation       □ P&A       □ Multi-Well Fluid Management       Low Chloride Drilling Fluid       □ yes       □ no         ☑ Lined       □ Unlined       Liner type:       Thickness       20       _mil       ☑ LLDPE       HDPE       PVC       Other
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
□ Visible sidewalls and liner □ Visible sidewalls only □ Other
Liner type: Thickness mil HDPE PVC Other
<ul> <li>Alternative Method:</li> <li>Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul>
5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital,
institution or church) I Four foot height, four strands of barbed wire evenly spaced between one and four feet
Alternate. Please specify

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other\_

6

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

🛛 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

#### Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

#### Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. -	□ Yes ⊠ No □ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	$\square Yes \boxtimes No$ $\square NA$
<ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	Yes 🛛 No
<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗆 Yes 🖾 No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗆 Yes 🛛 No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🖾 No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🛛 No
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
<ul> <li>Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗋 Yes 🛛 No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	🗌 Yes 🖾 No
- Visual inspection (certification) of the proposed site; Aerial photo, Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search: Visual inspection (certification) of the proposed site	🗆 Yes 🛛 No

<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No			
Temporary Pit Non-low chloride drilling fluid				
<ul> <li>Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🔀 No			
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗋 Yes 🛛 No			
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🛛 No			
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No			
Permanent Pit or Multi-Well Fluid Management Pit				
<ul> <li>Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No			
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🛛 No			
<ul> <li>Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🛛 No			
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🛛 No			
10.         Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.         Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC         Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC         nd 19.15.17.13 NMAC         Previously Approved Design (attach copy of design)       API Number: or Permit Number:				
11.         Multi-Well Fluid Management Pit Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions:       Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.				

<sup>12.</sup> <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached.         Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Climatological Factors Assessment         Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC         Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan         Emergency Response Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Erosion Control Plan         Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
<sup>13.</sup> <u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: 🛛 Drilling 🗌 Workover 🗋 Emergency 🗌 Cavitation 🗌 P&A 🔲 Permanent Pit 🔲 Below-grade Tank 🗌 Multi-well F	luid Management Pit
<ul> <li>Alternative</li> <li>Proposed Closure Method: Waste Excavation and Removal</li> <li>Waste Removal (Closed-loop systems only)</li> <li>On-site Closure Method (Only for temporary pits and closed-loop systems)</li> <li>In-place Burial On-site Trench Burial</li> <li>Alternative Closure Method</li> </ul>	
<ul> <li><u>Waste Excavation and Removal Closure Plan Checklist</u>: (19.15.17.13 NMAC) <i>Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached.</i></li> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	
<sup>15.</sup> Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	rce material are Please refer to
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes ⊠ No □ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	⊠ Yes □ No □ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes ⊠ No □ NA
<ul> <li>Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗋 Yes 🛛 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	🗋 Yes 🛛 No
<ul> <li>Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	🗋 Yes 🛛 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗋 Yes 🖾 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗋 Yes 🛛 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

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adapted summert to NIACA 1070 Section 2.27.2 as summed a					
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality					
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division					
Within an unstable area.					
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	🗌 Yes 🛛 No				
Within a 100-year floodplain. FEMA map	□ Yes ⊠ No				
	····				
16.         On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC         Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC         Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC         Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC         Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC         Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)         Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Soil Cover Design - based upon the appropriate requirements of Subsec					
17.					
Operator Application Certification:					
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed and be	ef.				
Name (Print): L. Kiki Lockett Title: Regulatory Specialist					
Signature: L. LOCKett Date: <u>4/25/2014</u>					
e-mail address: <u>kiki_lockett@oxy.com</u> Telephone: <u>713-215-7643</u>					
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)					
I ma Li	1-2-14				
	2014				
Title:DISTRICT SUPERVISOR OCD Permit Number:					
19. <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:					
20.					
Closure Method:          Waste Excavation and Removal       On-Site Closure Method       Alternative Closure Method       Waste Removal (Closed-log         If different from approved plan, please explain.	op systems only)				
21.					

#### 22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print): Locket	Title: Reas Specialist
Signature: Lapett	Date: 4/25/14
e-mail address: Kiki_ lockett@avy. com	Telephone: 113-215-7643



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

#### **Basin/County Search:**

County: Union

#### PLSS Search:

Section(s): 32

Township: 23N

Range: 32E

RECEIVED OOD

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



Pit Design and Construction Plan

In accordance with Rule 19 15 17 the following information describes the design and construction of temporary pits on Occidental Permian Ltd (OXY) locations. This is OXY's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

- 1. OXY will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use increation.
- 3. OXY will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. The sign will list the operator on record as the operator, the location of the well site by unit letter, section, township range, and emergency telephone numbers.
- 4. OXY shall construct all new fences utilizing 4 strand barbed wire. Troosts shall be installed every 12 feet and corners shall be anchored utilizing a wooded posts. Entire location including pits will be fenced at all times.
- 5. OXY shall construct the temporary pit so that the foundation and interior slope are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- 6. OXY shall construct the pit so that the slopes are no steeper than two horizontal feet to one vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction.
- 8. All temporary pits will be lined with 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.

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- 10. All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. OXY will minimize liner seams and orient them up and down; not across a slope... Factory seams will be used whenever possible. OXY will ensure all field seams are seams will be used whenever possible. OXY will ensure all field seams are seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. OXY will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from and fluid force or mechanical damage through the use of mud-pit-slides, or a manifold system.
- 13. The pit shall be protected form run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acresfeet/including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into the lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with 20 milliner. The upper half of the blow pit will remain unlined as allowed in Rule 19 15 17 11 F 11.

17. OXY will not allow freestanding liquids to remain on the unlined portion of the blow

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and the state of a **OXY Bravo Dome** and the state Pit Closure Plan 1. 14. 1971,确认为了 ###PE #PE A A ME HAR 是 #U () #PE #E () \* () \* () # D (# C A D (# C A D (# C A D (# C A D (# C

In accordance with Rule 19 15 17 12 NMAC the following information describes the closure requirements of temporary pits on locations. This is Oxy Bravo Dome's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this : 4 plan. 1. Alter to the second second second second 1,-<u>1</u>,-1 

All closure activities will include proper documentation and be available for review upon request and will be submitted to NMOCD within 60 days of pit closure: Closure report will be filed on C-144 and incorporate the following 经投资资本 化丁酸化 医鼻腔 医结核的 化合物 化乙酸化化合物 化化合物 化分子 

Details on Capping and Covering, where applicable

- Plot Plan (Pit Diagram)
- Inspection Réports • Sampling Results

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- 1. Free standing liquids will be removed as soon as practical for recycle use in the drilling of other wells. Any free standing liquids that are not recycled will be removed prior to pit closure and disposed of in a division -approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. Pit solids will be allowed to air dry as completely as possible prior to starting pit closing activities.
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (8) of 19 15 17 13 are met.

3. The surface owner shall be notified of Oxy Bravo Dome's proposed closure plan using a means that provides proof of notice i e, certified mail, return receipt requested.

4. Within 6 months of the Rig Off status occurring, Oxy Bravo Dome will ensure that temporary pits are closed, re-contoured. • 1; • •

5. Notice of Closure will be given to the Santa Fe Division office between 72 hours and one week of closure, via email, or verbally. The notification of closure will include the following: I Operator's name

a the state of the state of II Location by Unit Letter, Section, Township, and Range.. Well name and API number

- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal for liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner Hepedges of liner entrenched or buried All excessive liner will be disposed of at a licensed disposal facility. Or at the request of the landowner, the deep burial pit closure method will be used.
- 7. Pit contents shall be tested prior to mixing of any soils. Test results will be compared to NMOCD limits. If the test results are within the NMOCD limits no soils will be mixed with the pit contents. If the sample results exceed the NMOCD limits the contents will be mixed with non-waste containing, earthen material in order to achieve the solidification process. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents. The mixed contents will then be re-tested and the results will be compared to the NMOCD limits.
  - 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per subsection B of 19.15 17 13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15 17.13 i e, Dig and Haul

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- 9. Upon completion of testing, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 10 Re-contouring of location will match fit, shape, line, form and texture of the surrounding as closely as possible. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be placed in areas where needed to prevent erosion on a large scale. Final

re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

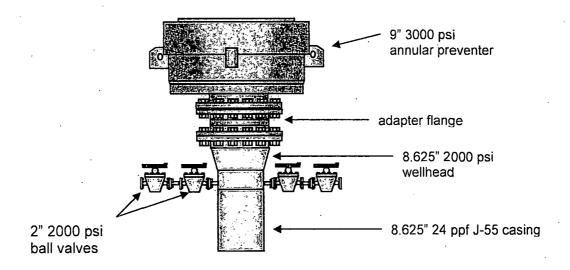
- 11.Notification will be sent to NMOCD when the reclaimed area is seeded
- 12.Bravo Dome shall seed the disturbed areas upon abandonment of the pit and well site. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will equal 70% if the native perennial vegetative cover (un-impacted) consisting of at *least three native plant species*, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons.
- 13. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicated the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following – Operator Name, Lease Name, Well name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location

## 3. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 750' will be drilled with no conductor and no pressure control equipment at surface.

Production: 750' - 2200' will be drilled with a 9" 3M annular preventer.

- a. The annular preventer will be functionally tested and pressure tested upon nipple up to wellhead **every well**. In the rare case that a well lasts longer than three weeks, the preventer will be subsequently tested every 21 days. The test will consist of a 250 psi low test and a 1000 psi high test.
- b. See BOP diagram.
- c. A Kelly cock will be in the drill string at all times while drilling.
- d. A full opening drill pipe stabbing valve with the appropriate connections will be on the rig floor at all times



# Temporary Pit Inspection

Wellname:	API #:	Rig Mobe Date:	
County:	Pit liner thickness:	Rig Demobe Date:	

Inspection Date	Time	By Whom	Has any hazardous waste been disposed of in pit(s)?	Is the liner of the pit intact and free of penetrations?	Is there an oil absorbent boom on location?	Distance from top of pit to fluid level (minimum 2')
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All pits to be inspected DAILY during drilling/workover operations. Any penetration of the pit liner shall be reported to the NMOCD within 48 hours.