1. Geologic Formations

TVD of target	11392'	Pilot Hole Depth	N/A
MD at TD:	22224'	Deepest Expected fresh water:	999

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	999	
Salado	1,669	Salt
Castile	3,128	Salt
Lamar/Delaware	4,915	Oil/Gas/Brine
Bell Canyon	4,981	Oil/Gas/Brine
Cherry Canyon	5,852	Oil/Gas/Brine
Brushy Canyon	7,149	Losses
Bone Spring	8,758	Oil/Gas
1st Bone Spring	9,869	Oil/Gas
2nd Bone Spring	10,564	Oil/Gas
3rd Bone Spring	11,678	Oil/Gas

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

									Buoyant	Buoyant
R . 1. C., C.)	Casing In	ite rval	Csg. Stze	Weight	Grade	C	SF	SF Barst	Body SF	Joint SF
Hole Size (in)	From (A)	To (fi)	(in)	(ibs)	Grade	Conn.	Collapse		Tension	Tension
17.5	0	1049	13,375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	5902	7.625	26.4	L-80 HC	BTC	1.125	1.2	1.4	1.4
9.875	5902	10884	7.625	26.4	L-80 HC	BTC	1.125	1.2	1.4	1.4
6.75	0	22224	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
							SF Value	s will meet	or Exceed	

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

*Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage, we will drop a cancelation cone and not pump the second stage.

*Oxy requests the option to run production casing with DQX, SF TORQ, and/or DQW TORQ connections to accommodate hole conditions or drilling operations.

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
- 2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y

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Drilling Plan

Oxy USA Inc Avogato 30_31 State Com 72H	
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

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Casing String	# Sks	Wt. (ib/gal)	Yld (ft3/sack)	H20 (gal/sk)	590# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	1107	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	484	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate 2nd Stage Intermediate 2nd Stage (Lead)	(Tail Sturry) N/A	to be pumped	as Bradenhead	l Squeeze fro N/A	m surface, dov	wn the Intermediate annulus
Intermediate 2nd Stage (Tail)	1881	12.9	1.92	10.41	23:10	Class C Cement, Accelerator
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	868	13.2	1.38	6.686	3:39	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	1049	100%
Intermediate 1st Stage (Lead)	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	7399	10884	5%
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	0	7399	10%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	10384	22224	20%

Drilling Plan

. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	2	~	Tested to:																	
		5M	Annul	ar	~	70% of working pressure																	
0.975 11-1-	17 5/07	3-5/8"	Blind R	am	 ✓ 																		
9.875" Hole			Pipe Ram			250: / 5000:																	
		5M	Double 1	Ram	 ✓ 	250 psi / 5000 psi																	
	•																			Other*			
		5M	Annul	ar	1	70% of working pressure																	
6.75" Hole			1	Blind R	am	 ✓ 																	
6.75 Hole	13-5/8"	54	Pipe R	am		350 mai / 5000 mai																	
		5M	Double l	Ram	1	pressure 250 psi / 5000 psi 70% of working																	
			Other*																				

*Specify if additional ram is utilized.

Oxy will utilize a 5M annular with a 10M BOPE stack. The BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

On Ex greate	ation integrity test will be performed per Onshore Order #2. aploratory wells or on that portion of any well approved for a 5M BOPE system or or, a pressure integrity test of each casing shoe shall be performed. Will be tested in dance with Onshore Oil and Gas Order #2 III.B.1.i.
	iance is requested for the use of a flexible choke line from the BOP to Choke fold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
and co per Or requir system that is	Itibowl or a unionized multibowl wellhead system will be employed. The wellhead onnection to the BOPE will meet all API 6A requirements. The BOP will be tested inshore Order #2 after installation on the surface casing which will cover testing mements for a maximum of 30 days. If any seal subject to test pressure is broken the in must be tested. We will test the flange connection of the wellhead with a test port of directly in the flange. We are proposing that we will run the wellhead through the prior to cementing surface casing as discussed with the BLM on October 8, 2015.
See at	tached schematics.

BOP Break Testing Request

As per the agreement reached in the Oxy/BLM meeting on Feb 22, 2018, Oxy requests permission to allow BOP Break Testing under the following conditions:

- After a full BOP test is conducted on the first well on the pad.
- When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.
- Full BOP test will be required prior to drilling any production hole.

5. Mud Program

De	pth	Turne	Weight	Viscosity	Water Loss
From (ft)	To (ft)	Туре	(ppg)	VISCOSILY	water Loss
0	1049	Water-Based Mud	8.6-8.8	40-60	N/C
1049	10884	Saturated Brine- Based or Oil-Based Mud	8.0-10.0	35-45	N/C
10884	22224	Water-Based or Oil- Based Mud	9.5-12.0	38-50	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

What will be used to monitor the loss or gain of fluid? PVT/MD Totco/Visual Monitoring

6. Logging and Testing Procedures

Logg	Logging, Coring and Testing.					
Yes	Will run GR from TD to surface (horizontal well - vertical portion of hole). Stated logs					
	run will be in the Completion Report and submitted to the BLM.					
No	Logs are planned based on well control or offset log information.					
No	Drill stem test? If yes, explain					
No	Coring? If yes, explain					

Addi	tional logs planned	Interval
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	ICP - TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7109 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	1 72° F

4

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. IfH2S is detected in concentrations greater than 100 ppm, the operator will comply with theprovisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measuredvalues and formations will be provided to the BLM.NH2S is present

Y H2S Plan attached

8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	Yes
• We plan to drill the three well pad in batch by section: all surface sections,	
intermediate sections and production sections. The wellhead will be secured	
with a night cap whenever the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	Yes
• Oxy requests the option to contract a Surface Rig to drill, set surface casing,	
and cement for this well. If the timing between rigs is such that Oxy would	
not be able to preset surface, the Primary Rig will MIRU and drill the well in	
its entirety per the APD. Please see the attached document for information	
on the spudder rig.	

Total estimated cuttings volume: 1993.4 bbls.

9. Company Personnel

Name	Title	Office Phone	<u>Mobile Phone</u>
TBD	Drilling Engineer		
Diego Tellez	Drilling Engineer Supervisor	713-350-4602	713-303-4932
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417

Drilling Plan