1. Geologic Formations

TVD of target	10058'	Pilot Hole Depth	N/A
MD at TD:	20924'	Deepest Expected fresh water:	1000'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	1,000	
Salado	1,670	Salt
Castile	3,129	Salt
Lamar/Delaware	4,916	Oil/Gas/Brine
Bell Canyon	4,982	Oil/Gas/Brine
Cherry Canyon	5,853	Oil/Gas/Brine
Brushy Canyon	7,150	Losses
Bone Spring	8,759	Oil/Gas
1st Bone Spring	9,870	Oil/Gas

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

2. Casing Program

									Buoyant	Buoyant
FF-3- C' (5-)	Casing In	ite rval	Csg. Ske	Weight	C-4-	C	SF	SF Burnt	Body SF	Joint SF
Hole Size (in)	From (ft)	To (ft)	(h)	(lbs)	Grade	Com.	Collapse	2t pmst	Teasion	Tension
17.5	0	1050	13.375	54.5	J-55	BTC	1,125	1.2	1.4	1.4
12.25	0	5903	9.625	36	J-55	BTC	1,125	1.2	1.4	1.4
8.5	0	20924	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
							SF Valu	es will meet	or Exceed	

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

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
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	Y
justification (loading assumptions, casing design criteria).	_

^{*}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.

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

ung riogram						
Casing String	# Sks	Wt.	Yld	H20	500# Comp. Strength	Slurry Description
		(lb/gal)	(ft3/sack)	(gal/sk)	(hours)	
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	1108	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate (Lead)	1403	12.9	1.73	8.784	15:26	Pozzolan Cement, Retarder
Intermediate (Tail)	156	14.8	1.33	6.368	7:11	Class C Cement, Accelerator
Production (Lead)	466	11.9	2.24	12.327	14:46	Class H Cement, Retarder, Dispersant, Salt
Production (Tail)	2246	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	1050	100%
Intermediate (Lead)	0	5403	50%
Intermediate (Tail)	5403	5903	20%
Production (Lead)	5403	9204	20%
Production (Tail)	9204	20924	15%

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:
		3M	Annul	lar	✓	70% of working pressure
10.058111-1-	12 5/02		Blind R	Ram	✓	
12.25" Hole	13-5/8"	224	Pipe R	am		250: /2000:
		3M	Double	Ram	✓	250 psi / 3000 psi
			Other*			
		5M	Annul	lar	✓	70% of working pressure
0.5811.1.	12 5/02		Blind F	Ram	✓	
8.5" Hole	13-5/8"	514	Pipe R	am] 250 ==: / 5000 ==:
		5M	Double	Ram	1	250 psi / 5000 psi
			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

See	attache	d schematics.			
	Form	ation integrity test will be performed per Onshore Order #2.			
	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.				
	A var	iance is requested for the use of a flexible choke line from the BOP to Choke			
	Manif	fold. See attached for specs and hydrostatic test chart.			
	Y	Are anchors required by manufacturer?			
	and contract per Output requirements system that is	Itibowl or a unionized multibowl wellhead system will be employed. The wellhead connection 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 rements 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 is 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	ttached 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	T	Weight	Vice a consider.	Water Less
From (ft)	To (ft)	Туре	(ppg)	Viscosity	Water Loss
0	1050	Water-Based Mud	8.6-8.8	40-60	N/C
1050	5903	Saturated Brine- Mud	9.8-10.0	35-45	N/C
5903	20924	Saturated Brine- Based or Oil-Based Mud	8.0-9.6	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				

Additional 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	5021 psi	
Abnormal Temperature	No	
BH Temperature at deepest TVD	161°F	

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. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N | H2S is present

N H2S 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. 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. 	Yes
 Will more than one drilling rig be used for drilling operations? If yes, describe. 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. 	Yes

Total estimated cuttings volume: 2074.1 bbls.

9. Company Personnel

<u>Name</u>	<u>Title</u>	Office Phone	Mobile Phone
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