1. Ceologie Francisary

TVD of target	9459'	Pilot Hole Depth	N/A
MD at TD:	19725'	Deepest Expected fresh water:	1019'

Delewsere Besh

Formation	TVD - RKB	Expected Fluids
Rustler	1,019	Brine
Salado	1,399	Losses
Castile	3,532	
Lamar/Delaware	4,874	Water
Bell Canyon	4,939	
Cherry Canyon	5,819	
Brushy Canyon	7,059	Losses
Bone Spring	8,689	Oil/Gas

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

2. Caring Program

									Buoyant	Buoyant
II.1. Char (tar)	Casing	Interval	Csg. Size	Weight	. C1	C	SF	OF D4	Body SF	Joint SF
Hole Size (in)	From (ft)	To (ft)	(in)	(lbs)	Grade	Conn.	Collapse	SF Burst	Tension	Tension
14.75	0	1069	10.75	40.5	J-55	BTC	1.125	1.2	1.4	1.4
9.875	0	8807	7.625	26.4	L-80	BTC	1.125	1.2	1.4	1.4
6.75	0	19725	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
						• •	SF V	alues will me	et or Excee	i

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 and/or SF TORQ connections to accommodate hole conditions or drilling operations.

Annulur Chanance Vankmee 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 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. Conventing Program

Casing String	# Sks	Wt. (lb/gal)	(ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A		N/A
Surface (Tail)	886	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate 1st Stage (Lead)	674	10.2	2.58	11.568	6:59	Pozzolan Cement, Retarder
Intermediate 1st Stage (Tail)	167	13.2	1.61	7.804	7:11	Class H Cement, Retarder, Dispersant, Salt
DV/ECP Tool @ 4924 (We request the option to cancel the second stage if cement is circulated to surface during the first stage of cement operations)						
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	1142	13.6	1.67	8.765	7:32	Class C Cement, Accelerator, Retarder
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	837	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	1069	100%
Intermediate 1st Stage (Lead)	4824	7807	20%
Intermediate 1st Stage (Tail)	7807	8807	20%
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	0	4924	100%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	8307	19725	20%

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		1	Tested to:
		Annula	ır	1	70% of working pressure	
9.875" Hole 13-5/8"	12 5/0"	514	Blind Ra	ım	✓	
	13-3/6	5M	Pipe Ra	m		250/5000
			Double R	am	1	250/5000psi
			Other*			

*Specify if additional ram is utilized.

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.

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	Formation 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 variance is requested for the use of a flexible choke line from the BOP to Choke					
	Manifold. See attached for specs and hydrostatic test chart.					
	Y Are anchors required by manufacturer?					
	A multibowl or a unionized multibowl wellhead system will be employed. The wellhead					
	and connection to the BOPE will meet all API 6A requirements. The BOP will be tested					
	per Onshore Order #2 after installation on the surface casing which will cover testing					
	requirements for a maximum of 30 days. If any seal subject to test pressure is broken the					
1	system must be tested. We will test the flange connection of the wellhead with a test port					
	that is directly in the flange. We are proposing that we will run the wellhead through the					
	rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.					
	See attached 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. Mind Brogann

De	pth	T	W	N72		
From (ft)	To (ft)	Туре	Weight (ppg)	Viscosity	Water Loss	
0	1069	Water-Based Mud	8.6-8.8	40-60	N/C	
1069	8807	Saturated Brine-Based or Oil-Based Mud	8.0-10.0	35-45	N/C	
8807	19725	Water-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	PVT/MD Totco/Visual Monitoring
of fluid?	

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	
BH Pressure at deepest TVD	4722 psi	
Abnormal Temperature	No	
BH Temperature at deepest TVD	156°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.

NH2S is presentYH2S Plan attached

8. Other facets of operation

•	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	No
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.	

Hotal extinated cuttings volumer 1242 2 bbls

9. Company Personnel

Name	<u>Title</u>	Office Phone	Mobile Phone
Philippe Haffner	Drilling Engineer	713-985-6379	832-767-9047
Diego Tellez	Drilling Engineer	713-350-4602	713-303-4932
Simon Benavides	Drilling Superinte	713-522-8652	281-684-6897
John Willis	Drilling Manager	713-366-5556	713-259-1417