Submit 1 Copy To Appropriate District	State of New Me			Form C-103	
<u>District I</u> – (575) 393-6161	Energy, Minerals and Natu	ral Resources	TETTER A PERSON	Revised July 18, 2013	
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.	·	
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION	DIVISION	30-015-40247	6.1	
<u>District III</u> – (505) 334-6178	1220 South St. Fran	icis Dr.	5. Indicate Type STATE		
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87		STATE FEE 6. State Oil & Gas Lease No.		
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Sama 1 0, 1 mm 0 /	505	o. State Off & Ga	is Lease No.	
87505					
	CES AND REPORTS ON WELLS		7. Lease Name o	r Unit Agreement Name	
	SALS TO DRILL OR TO DEEPEN OR PLU CATION FOR PERMIT" (FORM C-101) FC			_	
PROPOSALS.)		K 30CH	POOH 27 STAT		
1. Type of Well: Oil Well	Gas Well Other		8. Well Number	4	
2. Name of Operator	,		9. OGRID Numb	er	
OCCIDENTAL PERMIAN LTD	· · · · · · · · · · · · · · · · · · ·		157984		
3. Address of Operator			10. Pool name or		
PO BOX 4294; HOUSTON, TX 77	/210		ARTESIA; GLO	RIETA-YESO (96830)	
4. Well Location					
Unit Letter_H_:_173	38_feet from theN line ar	nd941feet	from the <u>E</u>	_line	
Section 27	Township 17S Range	28E NMP	M EDDY	County	
	11. Elevation (Show whether DR,				
	360				
12. Check A	Appropriate Box to Indicate N	ature of Notice	Report or Other	Data	
12. Check 1	ippropriate Box to meleute it	attire of fromee,	report of other	Dutu	
NOTICE OF IN	TENTION TO:) SUB	SEQUENT RE	PORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON 🔲	REMEDIAL WOR	ıк . 🗆	ALTERING CASING	
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DR	ILLING OPNS.	P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	T JOB 🔲		
DOWNHOLE COMMINGLE			•		
CLOSED-LOOP SYSTEM	_				
OTHER:		OTHER:			
	leted operations. (Clearly state all p				
proposed completion or rec	ork). SEE RULE 19.15.7.14 NMAC	J. For Multiple Co	mpletions: Attach	wellbore diagram of	
proposed completion of rec	ompletion.			"	
	•	Ho	legize 12.28	TO 11"	
	•	1.07	72.00	**	
OCCIDENTAL PERMIAN LTD res	spectfully request permission to mal	ke changes to the p	reviously approved	drilling plan. Please see the	
attached for your use and review.			, , ,	· .	
Summary of Changes:			1	RECEIVED	
-Smaller surface hole and surface car				, , ,	
-Less cement on surface and product	ion casing			MAR 07 2014	
			•	1	
<u> </u>				NIJOCD ARTESIA	
Spud Date:	Rig Release Da	ate:			
	Ting Release De				
	•	•			
I hereby certify that the information	shove is true and complete to the bu	act of my knowledge	a and haliaf	<u></u>	
1 Increpy certify that the information	above is true and complete to the be	est of my knowledg	ge and benef.		
m = 111	do A				
SIGNATURE / / / MAC	TITLE REG	ULATORY SPECI	ALISTDAT	TE' <u>03-05-2014</u>	
9.11				<u>03_05_207.</u>	
Type or print name JENNIFER DUA	ARTE E-mail address:	Jennifer duarte@c	oxy.com PHONE: 7	<u> 13-513-664</u> 0	
For State Use Only	/ .				
- / // W	rapord TITLE	مامم ع		1-1-2111	
	TITLE	<u>"Geolo</u>	DISL_DA	ATE 3-7-2014	
Conditions of Approval (if any):	•		Reserved to the second		

OXY USA Inc APD Data

OPERATOR NAME / NUMBER: OXY USA Inc

LEASE NAME / NUMBER: Pooh 27 State 4

Federal Lease No:

MAR 07 2014

No:

MAR 07 2014

NAMOCD ARTESIA

STATE: NM

COUNTY: Eddy

SURFACE LOCATION:

1738' FNL & 941' FEL, Sec 27, T17S, R28E

APPROX GR ELEV: 3599.7'

EST KB ELEV: <u>3613.7' (14' KB-GL)</u>

1. GEOLOGIC NAME OF SURFACE FORMATION

a. Permian

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS

Formation Name	Top TVD	Expected Fluids
Yates	520	
Seven Rivers	712	-
Queen	1310	
Grayburg	1725	Oil
San Andres	2005	Oil/Water
Glorieta	3430	Oil
Paddock	3510	Oil
Blinebry	3995	Oil
Tubb	5040	Oil
TD	5200	TD

A. Fresh Water formation is outcropping and will be covered with the 16" conductor pipe, which will be set at 80' prior to spud.

GREATEST PROJECTED TD: 5200' MD / TVD

OBJECTIVE: Yeso

3. CASING PROGRAM

Surface Casing set at $\pm 400^{\circ}$ MD/ 400° TVD in a 11" hole filled with 8.8 ppg mud

Interval (MD)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Jt Str (M-lbs)	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
0'- 400'	8.625	24	J55	LTC	8.097	New	244	2950	1370	1.42	10.42	2.26

Production Casing set at \pm 5200'MD / TVD in a 7.875" hole filled 9.6 ppg mud

Troduction	m Cusing	30t ut ±	3200 MD	7 1 7 12 11	1 a 7.075	note fined 7.0	ppg maa					
Interval (MD)	OD	Wt	Grada	Conn	ID	Condition	Jt Str	Burst	Collapse	Burst	Coll	Ten
intervar (IVID)	(in)	(ppf)	Grade	Conn	(in)	Condition	(M-lbs)	(psi)	(psi)	SF	SF	SF
0'- 5200'	5.5	17	L80	BTC	4.892	New	428	7740	6290	1.28	2.33	2.26

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

• Internal: Displacement fluid + one-third of its burst rating

• External: Pore Pressure from section TD to surface

CSG Test (Production)

• Internal: Displacement fluid + 80% CSG Burst rating

• External: Pore Pressure from the well TD the Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section .
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the surface CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the surface CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Production)

• Internal: Displacement Fluid

• External: Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

• Internal: Atmospheric Pressure

• External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

Running CSG (Surface/Production)

• Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

Green Cement (Surface/Production)

• Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement pressure + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.

4. CEMENT PROGRAM:

Surface Interval

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Lead: 0' - 400' (150% Excess)	210	400	Premium Plus Cement: 2% Calcium Chloride – Flake	6.39	14.8	1.34	1648 psi

Production Interval

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Lead: 0' - 3000' (100% Excess)	410	3000	Econocem (TM) System: 0.25 lbm D-AIR 5000	13.88	11.9	2.43	258 psi
Tail: 3000' - 5200' (100% Excess)	500	2200	Premium Plus Cement: 0.5% Halad ®-344, 0.2% WellLife 734, 5 lbm Microbond, 0.3% Econolite, 0.3% CFR-3	7.72	14.2	1.55	1697 psi

Description of Cement Additives: Calcium Chloride – Flake (Accelerator), D-AIR 5000 (Defoamer), Halad ®-344 (Low Fluid Loss Control), WellLife 734 (Cement Enhancer), Microbond (Expander), Econolite (Light Weight Additive), CFR-3 (Dispersant)

The volumes indicated above may be revised depending on if a caliper measurement.

5. DIRECTIONAL PLAN

Vertical well: No directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: 0' – 400' None.

Production: 400' MD/TVD – 5200' MD / TVD The minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required to drill below the surface casing shoe shall be 3000 (3M) psi. Operator will be using an 11" 3M two ram stack with 3M annular preventer, & 3M Choke Manifold.

- a. The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 8 5/8" surface casing and the 8 5/8" SOW x 11" 3K conventional wellhead; the rotating head body will be installed but the rubber will be installed when it becomes operationally necessary. The BOP and ancillary BOPE will be tested by a third party after setting surface casing. All equipment will be tested to 250/3000 psi for 10 minutes and charted, except the annular, which will be tested to 70% of working pressure.
- **b.** The surface casing string will be tested to one-third of its burst rating for 30 minutes.
- c. The BOPE test will be repeated within 21 days of the original test, on the first trip.
- **d.** Other accessory BOP equipment will include a floor safety valve, choke lines, and choke manifold having a 3000 psi working pressure rating and tested to 3000 psi.
- e. The Operator also requests a variance to connect the BOP choke outlet to the choke manifold using a 3" co-flex hose with a working pressure of 3000 psi.
- f. BOP & Choke manifold diagrams attached.

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0' – 400'	8.4 - 8.8	32 – 34	NC	Fresh Water / Spud Mud
400' – 4700'	9.6 – 10	28 - 32	NC	Brine Water / Salt Gel / Sweeps
4700' – TD	9.6 – 10	40 – 45	< 15	Brine Water / Salt Gel / Sweeps

<u>Remarks</u>: 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.

8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

9. POTENTIAL HAZARDS:

- a. Hydrogen Sulfide detection/ breathing equipment will be in operation and on location from drilling out the surface casing shoe until the production casing has been cemented.
- **b.** No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is 0.5 psi/ft. Maximum anticipated bottom hole pressure is between 2000 2750 psi.
- c. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. WIRELINE LOGGING / MUD LOGGING / LWD

- a. OH logs: Spectral GR/Density/Neutron/PEF/Caliper/Laterolog from 2,000' to TD
- **b.** Mud logging from 2000' to TD

COMPANY PERSONNEL:

Name	Title	Office Phone	Mobile Phone
Kacie Cruz	Drilling Engineer	(713)350-4889	(281) 433-6594
Sebastian Millan	Drilling Engineer Supervisor	(713)350-4950	(832) 528-3268
Roger Allen	Drilling Superintendent	(713)215-7617	(281) 682-3919
Oscar Quintero	Drilling Manager	(713)985-6343	(713) 689-4946