

Submit 1 Copy To Appropriate District  
Office  
District I - (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II - (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV - (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR: USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-40858
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator OXY USA INC		6. State Oil & Gas Lease No.
3. Address of Operator PO BOX 4294; HOUSTON, TX 77210		7. Lease Name or Unit Agreement Name Rogers
4. Well Location Unit Letter <u>G</u> : <u>1650</u> feet from the <u>NORTH</u> line and <u>2310</u> feet from the <u>EAST</u> line Section <u>23</u> Township <u>18S</u> Range <u>26E</u> NMPM <u>EDDY</u> County		8. Well Number <u>4</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3314		9. OGRID Number 16696
		10. Pool name or Wildcat ATOKA; GLORIETA-YESO (3250)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

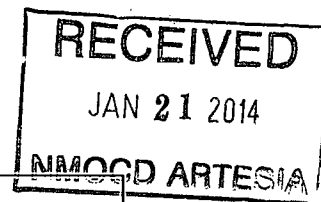
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

OXY USA INC respectfully request permission to make changes to the surface casing shoe. Please see the attached for your use and review. Should you have any questions, please feel free to contact us at any time.

Spud Date:

Rig Release Date:



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Jennifer Duarte TITLE Regulatory Specialist DATE 01/17/2013

Type or print name Jennifer Duarte E-mail address: jennifer\_duarte@oxy.com PHONE: 713-513-6640

For State Use Only

APPROVED BY: J. C. Shepard TITLE "Geologist" DATE 1-21-2014

Conditions of Approval (if any):

# OXY USA Inc

## ROGERS 23 FEE 4 SUNDRY NOTICE

Oxy, respectfully requests a dispensation from the approved permit as follows:

**GREATEST PROJECTED TD: 4000 MD/ TVD    OBJECTIVE: Yeso**

### 1. REVISED CASING PROGRAM

Surface Casing ran in a 11" hole filled with 8.4 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
11	900	8.625	24	J55	STC	8.097*	New	2950	1370	1.42	4.48	2.06

Production Casing ran in a 7.875" hole filled with 9.8 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
7.875	4000	5.500	17	L80	BTC	4.892	New	7740	6290	1.29	3.03	2.52

\*SPECIAL DRIFT TO 7.875"

### Casing Design Assumptions:

#### **Burst Loads**

##### CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

##### CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

##### CSG Test (Production)

- Internal: Displacement fluid + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

##### Gas Kick (Surface/Intermediate)

- 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 (e.g. Gas Kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- 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 Intermediate CSG shoe and 8.5 ppg MWE to surface

#### **Collapse Loads**

##### Lost Circulation (Surface/Intermediate)

- 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 intermediate 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/Intermediate/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/Intermediate/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/Intermediate/Production)

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

## 2. REVISED CEMENT PROGRAM

#### Surface Interval

Type	Amount	Ft of Fill	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
<b>1<sup>st</sup> Lead Cement plus Thixotropic Cmt</b>						
94 lbm Premium Plus Cement, 10 lbm Cal-Seal 60, 10 lbm Kol-Seal, 1 % Calcium Chloride, 0.25 lbm Poly-E-Flake, 7.44 Gal FRESH WATER	150 sks	-	7.44	14.2	1.668	798
<b>2<sup>nd</sup> Lead Cement: 0 – 500' with 150% Excess</b>						
94 lbm Premium Plus Cement, 0.25 lbm Poly-E-Flake, 4 % Bentonite, 2 % Calcium Chloride – Flake, 9.16 Gal FRESH WATER	190 sks	500	9.16	13.5	1.745	547
<b>Tail Cement: 500 – 900' with 150% Excess</b>						
94 lbm Premium Plus Cement, 2 % Calcium Chloride – Flake, 6.39 Gal FRESH WATER	210 sks	400	6.39	14.8	1.347	1275

#### Production Casing

Type	Amount	Ft of Fill	Gal/Sk	PPG	Ft <sup>3</sup> /sk	24 Hr Comp
<b>Lead Cement: 0 – 2200' with 100% Excess</b>						
Halliburton Light Premium Plus, 5 % Salt, 3 lbm Kol-Seal, 0.1250 lbm Poly-E-Flake, 9.97 Gal FRESH WATER	340 sks	2200	9.97	12.9	1.892	633
<b>Tail Cement: 2200 – 4000' with 50% Excess</b>						
50/50 Poz Premium Plus, 3 % Salt, 0.40 % Halad(R)-322, 0.1250 lbm Poly-E-Flake, 5.64 Gal FRESH WATER	390 sks	1800	5.64	14.5	1.241	985

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