Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

	Expires:	July
Lease Seri	al No.	
	0000	

5. NMNM82896

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.			NMNM82896			
			6. If Indian, Allottee or Tribe Name			
SUBMIT IN TRIPLICATE - Other instructions on reverse side.			7. If Unit or CA/Agreement, Name and/or No.			
I. Type of Well ☑ Oil Well ☐ Gas Well ☐ Other				8. Well Name and No. NIMITZ 12 FEDERAL 5H		
Name of Operator				9. API Well No. 30-015-41657-00-X1		
3a. Address 5 GREENWAY PLAZA STE 110 HOUSTON, TX 77046-0521 3b. Phone No. (include area code) Ph: 432-685-5717 Fx: 432-685-5742					10. Field and Pool, or Exploratory POKER LAKE	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)				11. County or Parish, a	and State	
Sec 12 T24S R30E SWSW 275FSL 350FWL 32.238542 N Lat, 103.840373 W Lon					EDDY COUNTY, NM	
12. CHECK APPR	ROPRIATE BOX(ES) TO	INDICATI	E NATURE OF	NOTICE, RI	EPORT, OR OTHER	R DATA
TYPE OF SUBMISSION	TYPE OF ACTION					
Notice of Intent ■ Notice of Intent	☐ Acidize	☐ Dec	☐ Deepen		ion (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	🗖 Fra	cture Treat	☐ Reclam:	ation	☐ Well Integrity
☐ Subsequent Report	□ Casing Repair	□ Nev	w Construction	□ Recomp	lete	⊠ Other
☐ Final Abandonment Notice	Change Plans	🗖 Plu	g and Abandon	☐ Tempor	arily Abandon	Change to Original A PD
	Convert to Injection		ug Back		Disposal	
following completion of the involved testing has been completed. Final Abdetermined that the site is ready for fit OXY USA Inc. respectfully req 1. Casing design modification, 14-3/4" surface hole w/ 11-3/4 hole w/ 5-1/2" csg. Details are	nandonment Notices shall be filed nal inspection.) uests approval for the follo to drill the well with smalle csg, 10-5/8" intermediate	only after all wing chang or bit sizes:	requirements, inclu ges to the drilling	iding reclamation	ı, have been completed, a	ECEIVED FEB 20 2014 OCD APTES A
a.Surface Casing- 11-3/4" 47# J-55 BT&C new csg @ 0-560', 14-3/4" hole w/ 8.5# mud						FB % COLL
Coll Rating (psi)-1510 Burst F SF Coll-7.93 SF Burst-1.43 S	Rating (psi)-3070	v c.sii mac	CEE AT	TACHEI TIONS O	FAFTROVAL	oce APTES A.M. ccepted for recor
14. I hereby certify that the foregoing is	true and correct.		T T			NMOCD
Com	Electronic Submission #23 For OXY USA II mitted to AFMSS for process	NCORPORA	TED, sent to the	e Carlsbad	-	18924-2014
Name (Printed/Typed) DAVID S	TEWART		Title SR. RI	EGULATORY	ADVISOR	201
Signature (Electronic S	ubmission)		Date 02/10/	2014		
	THIS SPACE FOR	R FEDERA	AL OR STATE	OFFICE D	FR()VED	
Approved By			Title			Date
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conduction	itable title to those rights in the st		Office	FE /s/ Ch	B 1 1 2014 pris Walls	
Fitle 18 U.S.C. Section 1001 and Title 43 V States any false, fictitious or fraudulent s	J.S.C. Section 1212, make it a critatements or representations as to	ime for any pe any matter w	erson knowingly an ithin its jurisdiction	a wththilizholws	ke to and department of RAD FIELD OFFICE	agency of the United

Additional data for EC transaction #235004 that would not fit on the form

32. Additional remarks, continued

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b.Intermediate Casing-8-5/8" 32# J-55 LT&C new csg @ 0-4100', 10-5/8" hole w/ 10.2# mud

Coll Rating (psi)-2530 Burst Rating (psi)-3930 SF Coll-3.13 SF Burst-1.26 SF Ten-1.98

c.Production Casing 5-1/2" 17# L-80 BT&C new csg @ 0-12265'M, 7-7/8" hole w/ 9.2# mud

Coll Rating (psi)-6290 Burst Rating (psi)-7740 SF Coll-1.59 SF Burst-1.21 SF Ten-1.84

Collapse and burst loads calculated using Stress Check with anticipated loads, see attached for design assumptions

- Cement program adjustment to the new bit/casing sizes. Cement program modifications detailed below.
- a. Surface Circulate cement to surface w/ 430sx PP cmt w/ 2% CaCl2, 14.8ppg 1.35 yield 1346# 24hr CS 125% Excess.
- b. Intermediate Circulate cement to surface w/ 840sx HES light PP cmt w/ 5% Salt + 25% HR-800, 12.9ppg 1.85 yield 734# 24hs CS 125% Excess followed by 230sx PP cmt, 14.8ppg 1.33 yield 1849# 24hr CS 125% Excess.
- c. Production Cement w/ 640sx Tuned Light cmt w/ 14.8#/sx Silicalite 50/50 Blend + 15#/sx Scotchlite HGS-6000 w/ .125#/sx Poly-E-Flake + .2#/sx HR-800 + 3#/sx Kol-Seal, 10.2ppg 2.94 yield 947# 24hr CS 100% Excess followed by 760sx Super H cmt w/ 3#/sx salt + .4% CFR-3 + .5% Halad-344 + .1% HR-800, 13.2ppg 1.65 yield 1275# 24hr CS 40% Excess,

Contingency 2nd Stage- DVT @ 4150' If lost circulation is present in the first stage and cement is not brought to surface, the contingency 2nd stage will be pumped as follows:
Circulate cement w/ 340sx HES light PP cmt w/ 3#/sx Salt, 12.4ppg 2.05 yield 450# 24hr (500#-28hr)
CS 10% Excess followed by 90sx PP cmt, 14.8ppg 1.33 yield 1849# 24hr CS 50% Excess.

Description of Cement Additives: Calcium Chloride, Salt (Accelerator); Silicalite (Additive Material); CFR-3 (Dispersant); Schotchlite HGS-6000 (Light Weight Additive); Kol-Seal, Poly-E-Flake (Lost Circulation Additive); Halad-344 (Low Fluid Loss Control); HR-800 (Retarder) The above cement volumes could be revised pending the caliper measurement.

OXY USA WTP LP Nimitz 12 Federal #5H

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)

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

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA Inc.

LEASE NO.: NMNM-82896

WELL NAME & NO.: Nimitz 12 Federal 5H
SURFACE HOLE FOOTAGE: 0275' FSL & 0350' FWL
BOTTOM HOLE FOOTAGE 0350' FNL & 0650' FWL

LOCATION: Section 12, T. 24 S., R 30 E., NMPM

COUNTY: | **Eddy County, New Mexico**

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.

4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Secretary's Potash Medium Cave/Karst Possibility of water flows in the Castile, Salado, and Delaware formations. Possibility of lost circulation in the Rustler, Delaware, and Bone Spring.

- 1. The 11-3/4 inch surface casing shall be set at approximately 560 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe and the mud weight for the bottom of the hole. Report results to BLM office.

- 2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing, which shall be set at approximately **4100** feet, is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst and potash.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - a. First stage:
 - Cement to circulate.

Operator has proposed a contingency DV tool at 4150'. If operator circulates cement on the first stage, operator is approved to run the DV tool cancellation plug and cancel the second stage of the proposed cement plan. If cement does not circulate, operator will proceed with the second stage.

- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate, contact the appropriate BLM office. Additional cement may be required excess calculates to 11%.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
 - b. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**.
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

CRW 021214