AHPN							
/ Form 3160-5 (August 2007) // B SUNDRY Do not use the abandoned we	esia	FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010 5. Lease Serial No. NMNM66437 6. If Indian, Allottee or Tribe Name					
SUBMIT IN TRI	PLICATE - Other instruc	tions on reverse s	ide.		7. If Unit or CA/Agree	eement, Name and/or No.	
1. Type of Well S Oil Well Gas Well Oth	her				8. Well Name and No HACKBERRY 6	FEDERAL COM 4H	
2. Name of Operator OXY USA WTP LP	Contact: Con	JENNIFER A DUAF arte@oxy.com	TE		9. API Well No. 30-015-41248		
3a. Address PO BOX 4294 HOUSTON, TX 77210		3b. Phone No. (includ Ph: 713-513-6640	e area code)		10. Field and Pool, of HACKBERRY 1	r Exploratory BONE SPRING N	
4. Location of Well <i>(Footage, Sec., T</i> Sec 6 T19S R31E NENW 380	., R., M., or Survey Description) FNL 1500FWL				11. County or Parish, EDDY COUNT	and State Y, NM	
12. CHECK APPI	ROPRIATE BOX(ES) TO	INDICATE NATU	JRE OF N	IOTICE, RE	EPORT, OR OTHE	ER DATA	
TYPE OF SUBMISSION			TYPE OF	ACTION			
 Notice of Intent Subsequent Report Final Abandonment Notice 13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the won following completion of the involved testing has been completed. Final Ab determined that the site is ready for fin Oxy USA respectfully requests plan: Casing design modification, 5/8? intermediate hole and 7 7 2. Cement program adjustment below. The Surface and Intermediate minutes. This will also test the Multibowl wellhead system. 	 Acidize Alter Casing Casing Repair Change Plans Convert to Injection cration (clearly state all pertinent illy or recomplete horizontally, g k will be performed or provide to operations. If the operation rest andonment Notices shall be file nal inspection.) approval for the following to drill the well with smalle (8? production hole. Detail to the new bit/casing size the casings strings will be for seals of the lock down pir 	Deepen Fracture Tra New Constr Plug and Al Plug Back details, including estim tive subsurface location: he Bond No. on file wil ults in a multiple complet d only after all requirem changes and addir er bit sizes: 14 ?? s ils are below. es. Cement recipe re- rested to 70% of the is that hold the pac	at uction bandon ated starting and measur h BLM/BIA. tion or recor- ents, includi ions to the urface hole nodificatio ir burst ra c-off in pta	Producti Reclama Recomp Tempora Water D date of any pr ed and true ve Required sub mpletion in a n ng reclamation e drilling e, 10 ms detailed ting for 30 EE NOTI	ion (Start/Resume) ation lete arily Abandon visposal oposed work and appro rtical depths of all pertin sequent reports shall be ew interval, a Form 310 t, have been completed, NM OIL ART JL ACHED FOR ONS OF APP	 □ Water Shut-Off □ Well Integrity ⊠ Other Change to Original A PD ximate duration thereof. and the operator has CONSERVATION TESIA DISTRICT JL 1 6 2014 ECEIVED PROVAL 	
14. I hereby certify that the foregoing is Name(Printed/Typed) JENNIFEF	true and correct. Electronic Submission #2 For OXY I Committed to AFMSS fo R A DUARTE	43024 verified by the JSA WTP LP, sent t pr processing by AN Title	BLM Well o the Carls GEL MAYE REGULA	Information bad S on 05/29/2 ATORY SPE	System 2014 () ECIALIST		
Signature (Electronic Submission) Date 04/22/2014 ADDDALED							
THIS SPACE FOR FEDERAL OR STATE OFFICE USE UVLU							
<u>Approved By</u> Conditions of approval, if any, are attached certify that the applicant holds legal or equ which would entitle the applicant to condu Title 18 U.S.C. Section 1001 and Title 43 States any false, fortifious or fourdulates	Approved By Title JUL 1 4 2014 Date Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Title JUL 1 4 2014 Date Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to finate to find the united Date Image: Condition of the united						
** OPERAT	OR-SUBMITTED ** OF	PERATOR-SUBM	ITTED **	OPERAT	OR-SUBMITTED	**	

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OXY USA WTP LP Hackberry Federal Com #4H SUNDRY Data

OPERATOR NAME / NUMBER: <u>OXY USA Inc</u>

LEASE NAME / NUMBER: <u>Hackberry Federal Com #4H</u>

STATE: <u>NM</u> COUNTY: <u>Eddy</u>

SURFACE LOCATION: <u>380' FNL & 1500' FWL, Sec 6, T19S, R31E</u>

BOTTOM HOLE LOCATION: 330' FSL & 1650' FWL, Sec. 6, T19S, R31E

C-102 PLAT APPROX GR ELEV: 3518' EST KB ELEV: 3542' (24' KB)

1. SUMMARY OF CHANGES:

Oxy USA respectfully requests approval for the following changes and additions to the drilling plan:

- 1. Casing design modification, to drill the well with smaller bit sizes: 14 ³/₄" surface hole, 10 5/8" intermediate hole and 7 7/8" production hole. Details are below.
- 2. Cement program adjustment to the new bit/casing sizes. Cement recipe modifications detailed below.
- 3. The Surface and Intermediate casings strings will be tested to 70% of their burst rating for 30 minutes. This will also test the seals of the lock down pins that hold the pack-off in place in the Multibowl wellhead system.

2. CASING PROGRAM

Surface Casing ran in a 14.75" hole filled with 8.50 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
14.75	610	11.75	47	J55	BTC	11.000	New	3070	1510	1.43	7.25	5.94
Intermediate Casing ran in a 10.625" hole filled with 10.2 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
10.625	4200	8.625	32	J55	BTC	7.921*	New	3930	2530	1.26	3.06	2.36
Production Casing ran in a 7.875" hole filled with 9.2 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	13028	5,500	17	L80	BTC	4 892	New	7740	6290	1.21	1 4 3	1 74

*SPECIAL DRIFT TO 7.875"

CEMENT PROGRAM: 3.

Surface Interval

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Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
0' – 610' (125% Excess)	470	610	Premium Plus Cement with 2% Calcium Chloride – Flake (Accelerator)	6.39	14.8	1.35	1346

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Intermediate Interval

Intermediate II	nterval Amount	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' - 3600' (125% Excess)	860	3600	Halliburton Light Premium Plus Cement with 5% Salt (Salt), 0.25% HR-800 (Retarder)	9.84	12.9	1.85	734
Tail: 3600' - 4200' (125 % Excess)	230	600	Premium Plus Cement (Cement)	6.34	14.8	1.33	1849

Production Interval

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft3/sk	24 Hr Comp
Lead: 3200' - 7900' (100 % Excess)	500	4700	TUNED LIGHT (TM) SYSTEM 3 lbm/sk Kol-Seal (Lost Circulation Additive), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive), 0.2 lbm/sk HR-800 (Retarder)	14.04	10.2	2.94	947
Tail: 7900' – 13028' (40 % Excess)	770	5128	Super H Cement, 0.5 % Halad(R)-344 (Low Fluid Loss Control), 0.4 % CFR-3 (Dispersant), 3 lbm/sk Salt (Salt), 0.1 % HR- 800 (Retarder), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)	8.42	13.2	1.65	1275

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

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA WTP LP
LEASE NO.:	NMLC-065244A
WELL NAME & NO.:	Hackberry 6 Federal Com 4H
SURFACE HOLE FOOTAGE:	0380' FNL & 1500' FWL
BOTTOM HOLE FOOTAGE	0330' FSL & 1650' FWL
LOCATION:	Section 6, T. 19 S., R 31 E., NMPM
COUNTY:	Eddy County, New Mexico

I. DRILLING

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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

- A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Yates formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 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. 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.

Possibility of water and brine flows in the Artesia and Salado Groups. Possibility of lost circulation in the Artesia Group.

- 1. The **11-3/4** inch surface casing shall be set at approximately **610** feet (**in a competent bed** <u>below the Magenta Dolomite</u>, which is a <u>Member of the Rustler</u>) and cemented to the surface. Freshwater mud to be used to setting depth.
 - 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.

Intermediate casing shall be kept fluid filled while running into hole to meet minimum collapse requirements.

- 2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing, which shall be set at approximately **4200** 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 potash.

Formation below the 8-5/8" 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:

Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

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 <u>5000 (5M)</u> 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.
- 4. 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.
 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.
- 5. 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 071414