

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

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

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNMO2447
2. Name of Operator BOPCO LP		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79702		7. If Unit or CA/Agreement, Name and/or No. 891000326X
3b. Phone No. (include area code) Ph: 432-221-7307		8. Well Name and No. BIG EDDY UNIT 249H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 35 T19S R31E SENE 1215FNL 10FEL		9. API Well No. 30-015-40715-00-X1
		10. Field and Pool, or Exploratory WILLIAMS SINK
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please see attached Word Document.



Accepted for record
NMOCD

Reg. w/ schematic
6-5-13

RRDade 6/6/2013

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #206158 verified by the BLM Well Information System
For BOPCO LP, sent to the Carlsbad
Committed to AFMS for processing by KURT SIMMONS on 05/08/2013 (13CRW0086S)

Name (Printed/Typed) WHITNEY B MCKEE	Title ENGINEERING ASSISTANT
Signature (Electronic Submission)	Date 05/03/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	JAMES A AMOS Title SUPERVISOR EPS	Date 05/26/2013
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.		Office Carlsbad

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 make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

gww

BEU #249H Drilling Operations Sundry

Spud well on 12/14/2012. Drill 18-1/8" hole to 1,191'. 12/21/12 ran 27 jts 16", 84#, J-55, BTC set at 1,190'. Pump 20 bbls FW preflush w/ red dye followed by Lead 1200 sks (396 bbls) Class C + additives (12.9 ppg, 1.88 cu ft/sk), followed by Tail 270 sks (64.4 bbls) Class C + additives (14.8 ppg, 1.34 cu ft/sk). Displace with 239 bbls of brine water. Circ 419 sks (140 bbls) cement to half pits with 490 psi final circ pressure. Bump plug with 1,100 psi-floats held. 12/29/2012 test annular, choke manifold, iBOP and TIW valve to 250 psi low/1,000 psi high – good test. Test casing to 1,500 psi – good test. WOC 268 hrs. Drill 14-3/4" hole to 2,665'. 01/01/2013 ran 70 jts of 13-3/8", 68#, HCL-80, UFJ, set at 2,664'. Pump 40 bbls FW preflush w/ red dye followed by Lead 500 sks (172.7 bbls) Class C + additives (12.7 ppg, 1.97 cu ft/sk), followed by Tail 250 sks (60 bbls) Class C + additives (14.8 ppg, 1.37 cu ft/sk). Displace with 387 bbls FW. Circ 125 sks (30 bbls) cement to half pits with 800 psi final circ pressure. Bump plug with 1,200 psi-floats held. 01/03/2013 test choke manifold, blind rams, both 5" pipe rams, 2" and 4" valves on BOP stack and Swaco choke to 250 psi low/3,000 psi high. Test annular to 250 psi low/2,500 psi high. Test casing to 1,500 psi-good test. WOC 40.74 hrs. Drill 12-1/4" hole to 4,380'. 01/07/2013 ran 98 jts 9-5/8", 40#, J-55 and LTC set at 4,356'. Unable to pump through stuck and packed off 9-5/8" casing. Max pump pressure 1,200 psi. Work casing string from 350K up to 150K down attempting to break circulation with 1200 psi from 4,356' to 4,351'. Pressure would bleed off slowly to 900 psi. Max over pull 400K attempted to free and break circulate with no success. Bleed pressure off casing to 0 psi several times attempting to pulse casing to create flow path with no success. Continue attempting to break circulation with all the above. Hold 1,200 psi to try to break circulation while waiting on Weatherford free point truck. Decide to inflate ECP tool and open DV tool in order to pump the second stage of the cement job. First stage will be perferd and squeezed after completion of second stage. Surface pressure to open ECP is 1,200 psi with max surface pressure of 1,700 psi to stay below casing burst. Pressure up to 1,390 psi and hold for 2.5 min. Bled off to 1,000 psi. Pressure up again to 1,550 psi and hold for 5 min bleeding off to 1,100 psi. Drop bomb and load DV tool closing plug. Wait on bomb to fall. Pressure up on opening bomb to 627 psi to open DV tool. Pump one casing volume to make sure DV tool opened prior to cementing. Pump total of 400 bbls of FW through DV tool and never got any returns to surface indicating ECP is not inflated, nor sealing. Decide to order more lead cement 750 sks and 200 bbls of SwiftCem-Thixotropic cement. Primary goal is to seal loss zone in reef for future cementing operations with a secondary goal of getting cement to surface. Cement 2nd stage of 9-5/8" 2nd intermediate casing. Test lines to 2,500 psi-good test. Pump 20 bbls of gel spacer, followed by 670 sks (199 bbls) of SwiftCem-Thixotropic cement (14.2 ppg, 1.67 cu ft/sk yield) followed by Lead - 1500 sks (494 bbls) of EconoCem - HLC (12.9 ppg, 1.85 cu ft/sk yield) followed by Tail - 100 sks (23 bbls) of Class C + additives (14.8 ppg, 1.33 cu ft/sk yield). Drop DV tool closing plug and displace with 210 bbls FW. Bump plug with 100 psi final circ pressure and close DV tool with 1600 psi. Release pressure and bled back 2.5 bbl - DV tool closed and holding. Did not have returns throughout job nor circulate cement to surface. No lift pressure of any kind seen, only friction pressure from pumping. Attempt to fill up annulus to determine TOC, if any. Fill up annulus with 38 bbls FW. Calculated TOC @ 636'. Decide to set casing slips, cut off, NU BOP, drill out DV tool and run cement bond log. Intent is to perforate above float collar and squeeze

lower portion of casing. Set 9-5/8" casing slips with 170K lbs. Cut off 9-5/8" casing. 01/10/2013 5,000 psi WP BOP stack, choke manifold, chokes, kill lines, kelly cocks, kelly safety valves, and floor valves to 250 psi low/3,000 psi high. 01/11/2013 complete testing Blind rams, Pipe rams, choke manifold, 4" valves, IBOP, & TIW valve to 250 psi low/3,000 psi high. Test annular to 250 psi low/2,500 psi high. Perforate from 4,200' – 4,202': set cement retainer at 4,185'. Re-establish injection rate through perfs with 1,700 psi @ 4.5 bbl/min. 01/12/2013 established injection rate of 5 bpm @ 1,500 psi. Unsting from retainer. Pump 246 sks (75 bbl) Class C cement + additives (13.6 ppg, 1.71 cu ft/sk) to bottom of DP at 5 bpm @ 1,000 psi. Sting into retainer and pump another 23 sks (7 bbl) Class C cement + additives (13.6 ppg, 1.71 cu ft/sk). Pressure increased to 2,200 psi @ 1 bpm. Shut down pumping operation. Casing capacity from retainer to perfs is 1.1bbl. Estimate 5.9 bbls squeezed through perfs. Prep to sting out of cement retainer. 03/01/2013 test 5,000 psi WP BOP stack, choke manifold, chokes, kill lines, kelly cocks, kelly safety valves, and floor valves to 250 psi low/3,000 psi high-good tests. Test annular to 250 psi low/2,500 psi high-good test. Started seeing cement over shakers with no sand @ +/- 3,810'. Noticed when pump got turned off we would gain +/- 20 bbls of fluid and when the pumps were kicked back on we would go back to normal mud volume in the pits indicating that casing may be parted and formation is giving and taking fluid. CBL from 4,159' to surface. Shows no cement in annulus and potential part from 2,746'-2,747'. Parted casing confirmed from 2,746'-2,747'. Decided to attempt to pump through part in casing and establish flow through back side of 9-5/8" casing up through wing valve on "B" section. Want to see if casing free to pull section above part out of hole and sidetrack well. Shut blind rams and open valve on "B" section to attempt to pump through parted casing and establish flow through back side of 9-5/8" casing up through valve on "B" section. Start pumping @ 1/2 BPM and pressured up to 970 psi with no returns through valve on "B" section. Hold 5 min, with 10 psi bleed off. Pressure up to 1,500 psi and still no returns through valve. Hold 5 min with no bleed off. Decide to TIH with re-run Smith 8-3/4" mill tooth bit and attempt to get more aggressive and drill to top of retainer @ 4,185'. TOOH with Smith mill tooth re-run. Bit had several broken teeth and wear on the gauge indicating that bit was rubbing inside casing. Decide to RIH open ended with bit sub to see if we could get past 4,173' where we had tagged up with 8-3/4" bit. Ease back to bottom stacking 10 Klbs on bit sub. Did not get past 4,173'. Found small amount of wet cement on the inside. Decided to run string mill with smooth 8-3/4" gauge to mill through potential collapsed casing and cement retainer. Circulate until shakers clear of cement. Drill 8-3/4" hole to a depth of 8,645'. 03/15/2013 ran 194 jts 7" 26#, P-110 LTC set at 8,640'. Cement-1st stage of 7" intermediate casing. Pump 20 bbls FW gel spacer with red dye followed by Lead 480 sks (226 bbls) Tuned Light + additives (11.0 ppg, 2.64 cu ft/sk yield) followed by Tail 125 sks (45.0 bbls) Class H + additives (12.0 ppg, 2.03 cu ft/sk yield). Displace cement with 328 bbls FW with 1,237 psi final circ pressure. Bump plug and pressure up to 2,137 psi. Release pressure and bled back 2.5 bbls-floats holding. Drop DV tool opening bomb. Had full returns during cement job. Pressure up and open DV tool with 1,000 psi. Circulate 180 bbls of FW and got 180 bbls (383 sks) of cement to surface. Cement 2nd stage of 7" intermediate casing. Pump 20 bbls FW gel spacer with red dye followed by Lead 480 sks (201 bbls) of Tuned Light + additives (11.0 ppg, 2.35 cu ft/sk yield). Displaced with 192 bbls FW and final circ pressure 1,357 psi. Bump plug and close DV tool with 2,857 psi. Release pressure and bleed back 1 bbl-tool closed. Circulated 60 bbls (143 sks) of cement to

surface. Mill through partially collapsed casing, and drill out float collar and float shoe. 3/16/2013 test 5,000 psi WP BOP stack, choke manifold, chokes, kill lines, kelly cocks, kelly safety valves, and floor valves to 250 psi low/3,000 psi high-good test. 03/17/2013 Continue test 5,000 psi WP BOP stack, choke manifold, chokes, kill lines, kelly cocks, kelly safety valves, and floor valves to 250 psi low/3,000 psi high-good test. Test annular to 250 psi low/2,500 psi high-good test. Test 7" casing to 1,500 psi-good test. WOC 35.75 hrs. Drill 6-1/8" hole to a depth of 15,621' (9,220' TVD). 04/01/2013 ran 118 jts 4-1/2", 11.6#, HCP-110 LTC, 33 jts 4-1/2" 11.6#, HCP-110 BTC with Baker Frac Point Completion system equipment with 20 OH packers and 19 sleeves. Top of completion system at 8,395'. Two packers ran back to back across 330' hard line and inside of the Bone Spring sand for zonal isolation. Drop 1-1/4" WIV tool ball. Pump 165 bbl, 2% KCl water and land WIV tool ball. Pressure up to 2,150 psi and set S-3 hanger packer. Set down 60 klbs and pull 60 klbs over string weight to ensure packer set. Pressure up on annulus to 1,500 psi and hold for 30 min-good test. Pressure up on DP to 3,200 psi to set open hole packers and release setting tool. Received indication of OH packers stroking. Hold for 10 min, bleed off pressure. Sting out of packer and POOH w/2 jts, liner set and released from. Install tubing head and test to 1,500 psi for 10 min-good test. Rig released 04/03/2013.