

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

WELL API NO. 30.015.22415
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(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.)

1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	7. Lease Name or Unit Agreement Name: WASHINGTON 33 STATE
2. Name of Operator BP America Production Company	8. Well Number 16
3. Address of Operator P.O. Box 1089 Eunice NM 88231	OGRID Number 00778
4. Well Location Unit Letter I : 1500 feet from the S line and 700 feet from the E line Section 33 Township 17S Range 28E NMPM County EDDY	9. Pool name or Wildcat ARTESIA QUEEN GREG SA
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3664'	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____	
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

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 type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETION <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER: Convert from Producer to Injector <input checked="" 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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

TD: 6219' PED: 5840' PERFS: 1616-2208'

BP America Production Company has been granted verbal permission by Gerry Guy of NMOCD to convert this well from a production well to an injection well as per the attached wellwork procedure.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Vicki Owens TITLE Administrative Assistant DATE 10.11.06

Type or print name Vicki Owens

E-mail address:

owensv12@bp.com

Telephone No. 505.394.1650

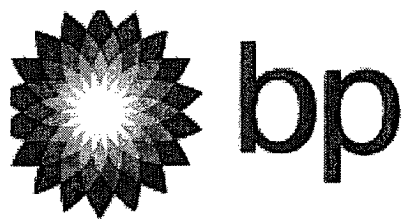
For State Use Only

Accepted for record
NMOCD

APPROVED BY

TITLE _____ DATE _____

Conditions of Approval, if any:



WORKOVER PROCEDURE

Well Information

Lease & Well No.	Field	Paykey No.	AFE No.
Washington State "33" #16 Orig. Empire Abo G-323	Artesia	ZAXN18DRLG	X5-0040R
Drilled	TD	PBD	Datum
3/12/78	6219'	5820'	KB 10' 3664' GL
Legal	S - T - R	County	State
1500' FSL & 700' FEL	33 - T17S - R28E	Eddy	New Mexico
Prepared By	Date	Approved By	Date
J. L. White	September 22, 2006		

Wellbore Data

Casing	Size	Weight	Grade	Depth	Cmt	TOC
Surface	8 5/8"	24#		600'	300	Surface
Production	5 1/2"	15.5#		6197'	410	*3880'
"	"	"	DV TOOL	3000'	915	Surface

Plugs: CIBP @ 5840'

Tubing: 93 jts 2 7/8" (3023'), 6.5 ppf, J-55, SN @ 3033', 1 - 4' Perf Sub, 4 mud joints (130')

Packer: No TAC

Perfs: Queen-Grayburg 1616' - 2208', San Andres 2494'-3015', *Squeeze perfs (3360', 3840'), squeezed, Abo 5866'-5880', Abo O/H 6197' - 6219'

History: Well drilled in March of 1978 as Empire Abo Unit G-323 producer.

Scope of Work: Convert well to injector.

PROCEDURE

1. Notify NMOCD prior to rigging up for witnessing. MIRUPU.

Hazard	Effect	Mitigation
Pulling Unit Equipment Failure Objects falling from derrick	Possible injury or death to personnel, damage to equipment or wellbore	<ul style="list-style-type: none"> > Inspection of derrick > Pre-job inspection of rig after RU. > Assure guy wire anchors have been tested

2. Unseat pump and pump sufficient 2% KCL water down tbg to put well on vacuum.

3. TOH with rods and pump, laying down. Send pump into pump shop for inspection.
4. Remove flowline connections and pumping tee. If wellhead is threaded and not flanged, back off tubinghead and screw on adaptor flange.
5. NUBOP with Blind and 2 7/8" x 2 3/8" variable rams. TOH with 2 7/8" tubing.
6. P/U 4 3/4" workover bit and RIH to 3260' (100' above squeeze perms).
7. RIH with CIBP and set at 3260', dump bail 20' of cement on top of plug. TOH w/ 2 7/8", laying 2 7/8" down.
8. TIH with RBP and set at 1590' dump 2 sx of sand on top.
9. RUWL and perforate Penrose "A" 1518', 1524', 1528', 1532', 1536', 1540' (Correlate to Wedge Dialog CPNL dated 7/30/98).
10. TIH with 5 1/2" packer on 2 7/8" workstring, spot 2 bbls of 15% NeFe acid, pull packer to 1400', wash down backside.
11. Set Packer and land tree on top of BOP.
12. Acidize (see Halliburton procedure) with 1000 gallons of 15% NeFe acid at 4-6 bpm dropping 12 ball sealers (biodegradable). If ballout occurs surge balls and finish flushing acid away. Prep for Frac.
13. Have all flowback equipment rigged up prior to frac. Set and fill 1 clean frac tank with 480 bbls of freshwater containing biocide. A transport tank of 120 bbls of freshwater containing biocide should also be on location during job. A frac supervisor should spot tank and provide biocide.
14. MIRU frac equipment as follows:

Slurry Blending equipment for 12 BPM
Hydration unit for 12 BPM
Horsepower equivalent to 12 BPM @ 5000 psi.
15. Load and pressure casing annulus to 500 psi.
16. Frac down 2 7/8" tubing at 12 bpm, **Max Pressure 3800 psi** (see attached Halliburton procedure), with 18000 gallons of 25 lb X-linked fluid and 30000 lbs of 16/30 sand.
17. RDMO Frac Equipment.
18. Once the frac equipment and personnel are safely out of the way, begin flowing the well back. Adjust choke size as necessary to ensure a minimum liquid recovery rate of 70 bph.

19. Continue to flow through test separator until the well dies. Release packer and make sure well is adequately killed. TOH with tubing and packer.
20. TIH with tubing and retrieving head and wash down to 1590' and retrieve RBP. TOH.
21. GIH w/ 5½" -17# Arrowset 1-X pkr (external nickel plated / IPC) with WL guide on btm and on/off tool w/ 1.78" profile on 2¾" 4.7# EUE 8R J-55 tbg w/ TK-70 IPC.

Hazard	Effect	Mitigation
Dropped pipe in hole	Possible damage to well	➤ Pipe handling practices – slips, clamps, tongs, complete MU/BO before lifting as appropriate
Dropped pipe in derrick	Possible injury or death to personnel, damage to equipment	➤ Line of fire practices ➤ Inspection of lifting equipment
Loss of well control	Possible injury to personnel, damage to wellbore, damage to environment	➤ Install pressure control – BOP's (change pipe rams) ➤ Have TIW valve on floor – capable of stabbing in 4 ½" LTC & full opening ➤ Frequent BOP drills
Falling from height	Possible injury or death to personnel	➤ Use work platform ➤ 100% tie-off

22. Set pkr @ approx 1400' +/- and space out. Rig up slick line unit and set 1.78" plug in profile. Release from on/off tool and circulate packer fluid to backside – 2% KCL water with corrosion inhibitor. Latch back onto packer.
23. ND BOP and install WH equip. Pull 10K tension on pkr. Install 2¾" full opening NACE trimmed valve.
24. **Notify NMOCD 48 hours prior to test.** Test annulus to 600 psi and chart for 30 minutes for submitting to NMOCD. Pull profile plug with slick line.
25. RU to tbg and pump 50 BW to assure tbg is clear and capable of taking required rate. Limit pump pressure to 250 psi and rate to 2 BPM.
26. RD & RPU.
27. Complete *Well Handover Form* with a Production representative. Provide a copy for Production, fax copy to Midland office and send the original to the well file.

Prepared by: Jeff White

Approved by: _____

Washington State "33" #16

Artesia (Queen - Grayburg - San Andres)

API No. 30-015-22415

1500' FSL & 700' FEL
Sec 33 - T17S - R28E
Eddy County, New Mexico

Proposed WB Design for WI Service

Spud 3/12/78
Completed 4/1/78

