

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. <b>30-025-30035</b>
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: <b>STATE A A/C-2</b>
8. Well Number <b>073</b>
9. OGRID Number <b>194849</b>
10. Pool name or Wildcat <b>JALMAT; TAN, YATES, 7-RVRS (GAS) 79240</b>

Pit or Below-grade Tank Application ☐ or Closure ☐  
Pit type \_\_\_\_\_ Depth to Groundwater **170'** Distance from nearest fresh water well **1000'±** Distance from nearest surface water **1000'±**  
Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

**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 type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other _____	7. Lease Name or Unit Agreement Name: <b>STATE A A/C-2</b>
2. Name of Operator <b>PETROHAWK OPERATING COMPANY</b>	8. Well Number <b>073</b>
3. Address of Operator <b>1100 LOUISIANA, SUITE 4400</b>	9. OGRID Number <b>194849</b>
4. Well Location Unit Letter <b>P</b> : <b>990</b> feet from the <b>SOUTH</b> line and <b>660</b> feet from the <b>EAST</b> line Section <b>11</b> Township <b>22S</b> Range <b>36E</b> NMPM County <b>LEA</b>	10. Pool name or Wildcat <b>JALMAT; TAN, YATES, 7-RVRS (GAS) 79240</b>
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
<b>NOTICE OF INTENTION TO:</b>	<b>SUBSEQUENT REPORT OF:</b>
PERFORM REMEDIAL WORK <input checked="" 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: <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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Please see attached procedure and wellbore schematic

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 Anna Tarpey TITLE Regulatory Analyst DATE 04/03/06  
Type or print name Anna Tarpey E-mail address: atarpey@petrohawk.com Telephone No. 832-204-2760

For State Use Only  
APPROVED BY Hayward Wink TITLE OC FIELD REPRESENTATIVE / STAFF MANAGER DATE APR 10 2006  
Conditions of Approval, if any:

**Petrohawk Energy Corporation**  
**Jalmat Field**  
**Lea County, New Mexico**

**Project:** Squeeze Yates perforations and add-pay in the Seven Rivers

**Well:** State A A/C 2 #73

**Procedure:**

1. Test pulling unit anchors if they have not been tested within 2 years
2. MIRU PU
3. Install BOP, release pkr @ 2768' and POOH scan tbg out of hole, lay down all green and red band tbg
4. PU 4 3/4" bit and scraper RIH to PBTD @ 3138', RU air unit and drill out CIBP @ 3138', POOH
5. PU 5 1/2" CICR and RIH set CR @ 3100'+/-,
6. RU cement company squeeze 7 Rivers perforations from 3148' to 3207'
7. Sting out of retainer and spot cement on top of CICR and bull head squeeze Yates perms from 2882' to 3063', POOH with tbg
8. WOC overnight
9. PU 4 3/4" bit & DC's RIH, drill out cement and CICR @ 3100' and cement, continue in hole to 3670' and circ hole clean
10. POOH and lay down DC's and bit
11. PU 4" X 5 1/2" liner shoe, 1 joint of 4" FL4S liner, 4" float collar and remainder of 4" FL4S liner
12. Set liner on CIBP @ 3670', RU cementing company, cement liner in place
13. WOC 12 hrs minimum
14. RIH with 3 1/4" bit, slim hole DC's on 2 3/8" tbg and clean out liner to float collar, circ hole clean
15. POOH and lay down, DC's and bit
16. RU wireline co and run cased hole log
17. Add additional pay in the 7 Rivers at 3156', 3165'(2 spf), 3180', 3194', 3218', 3220', 3254'(2 spf), 3256', 3271', 3275', 3295', 3301'(2 spf), 3330'(2 spf), 3333'(2 spf), 3344'(2 spf), 3354'(2 spf), 3373', 3380'(2 spf), 3382'(2 spf), 3384', 3386', 3391'(2 spf), 3412'(2 spf), 3414'(2 spf), 3417'(2 spf), 3436'(2 spf), 3438'(2 spf), 3440'(2 spf), 3442' (2 spf).
18. Acidize perms with 2500 gals of 7 1/2% NEFE HCl with a PPI tool, POOH with tbg and PPI tool
19. Fracture stimulate 7 Rivers perforations.
20. Force close fracture and begin flow back
21. RIH on 2 3/8" production tbg, PU MA and TAC, set TAC, RIH with pump and rods
22. Pump test well

FORM	TOP																													
		<p>10/21/03 restriction found @ 200'</p> <p>4/25/93 Restriction found @ 350' - salt ring.</p> <p>8-5/8" @ 474'</p> <p>w 350 sx Cmt</p> <p>Circulate to surface.</p>	<p><b>STATE A A/C 2 #73</b></p> <p><b>PROPOSED WELLBORE DIAGRAM</b></p> <p><b>RAPTOR RESOURCES INC</b></p> <p><b>SU-T-R</b> 11P-22S-36E <b>API #:</b> 30-025-30035</p> <p><b>POOL:</b> JALMAT:TAN-YATES-7 RVRS (Pro Gas)</p> <p><b>CO, ST:</b> LEA, NEW MEXICO <b>LAND TYPE:</b> STATE</p> <p><b>STATUS:</b> ACTIVE <b>ACREAGE</b> ProRated</p> <p><b>LATEST RIG WORKOVER:</b> 1/24/88 640 Ac Gas Unit</p> <p><b>DIAGRAM REVISED:</b> 3/2/06 BY ROBERT LEE</p>																											
			<p><b>LOG ELEVATION:</b> DF 3529'</p> <p><b>GROUND ELEVATION:</b> 3519'</p>																											
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			<p><b>LOGS</b></p> <p>In File</p> <p>Sample log 2650' to 4000'</p> <p>Schlumberger DLL/Micro-SFL/GR 10/4/87</p> <p>Schlumberger Cased Hole Neutron 10/9/87</p>																											
			<p><b>TAN-YATES-7 RVRS ZONE HISTORY</b></p> <p>12/8/87 Perf Yates 2882-3063. Acidize w/ 9000g 15% NEFE. Swab test - no gas.</p> <p>1/24/88 Frac w/26,000g Titan III 40 + 26,000g CO2 + 87,000# 20/40</p> <p>1/30/88 4 PT Test CAOF 512 MCFD</p> <p>Flowed 391 MCFD @ TP 595 psi on 17/64" choke.</p> <p><b>GAS ANALYSIS</b> 32.3% N2, 10.1% CO2</p> <p>0.8792 Sp. Gr.</p> <p>711 BTU/cu ft.</p> <p>Flowed for 3 years and TA'd.</p>																											
			<p><b>PROPOSED</b></p> <p>Release pkr @ 2,768'</p> <p>DO CIBP @ 3,138'</p> <p>Squeeze 7 RVrs perfs 3148-3207'</p> <p>Squeeze Yates perfs 2882-3063'</p> <p>DO CIBP @ 3,100' &amp; cmt</p> <p>Set 4" liner on CIBP @ 3,670' &amp; cmt in place</p> <p>Run cased hole log</p> <p>Perfs 3156-3442'</p> <p>Acidize perfs w/2500 gals 71/2% NEFE HCl w/PPI tool</p> <p>Frac 7 Rivers perfs</p> <p>Flow or pump test well</p>																											
			<p><b>GRAYBURG - QUEEN ZONE HISTORY</b></p> <p>Spud : 9/28/87</p> <p>Attempt Grayburg - 7R Completion 10/8/87 to 12/5/87</p> <p>10/20/87 Perf 3892' to 3930'; Acidize w/2500g w/15% NEFC HCl</p> <p>Test - Recover trace oil. Set retainer &amp; sqz perfs.</p> <p>10/22/87 Perf 3759'-3848'. Acidize w/6000g 15% NEFE</p> <p>Swab &amp; pump -7 days. Last day 0 BO, 5 BLAW, 30 MCF</p> <p>Run 120 hr. build-up - est. reservoir P = 240 psi.</p> <p>11/11/87 Perf Queen 3685'-3744'. Set RTBP @ 3752'.</p> <p>Acidize w/5000g 15% NEFE</p> <p>Swab &amp; pump for 6 days. Last day 1 BO, 4 BW, 20 MCF</p> <p>12/5/87 Remove RTBP. Set CIBP @ 3752' w/2 sxs cmt; Set 2nd CIBP @ 3670' w/2 sxs cmt.</p> <p>Perf 7R 3148'-3207'. Acidize w/ 5000g 15% NEFE.</p> <p>Swab - no oil or gas.</p> <p>Set CIBP @ 3138' w/2 sxs cmt.</p> <p>Move to complete Yates. See above.</p>																											
YATES	2,879'		<p><b>Squeeze Perf: 2882-3063'</b></p> <p><b>Perfs: 3156-3442'</b></p> <p>3156, 65 (2 spf), 80, 94, 3218, 20, 54 (2 spf), 56, 71, 75, 95, 3301 (2 spf), 30 (2 spf), 33 (2 spf), 44 (2 spf), 54 (2 spf), 73, 80 (2 spf), 82 (2 spf), 84, 86, 91 (2 spf), 3412 (2 spf), 14 (2 spf), 17 (2 spf), 36 (2 spf), 38 (2 spf), 40 (2 spf), 42' (2 spf)</p> <p><b>Squeeze Perf: 3148-3207'</b></p> <p>4" Liner @ 3,670'</p> <p>CIBP @ 3670'</p> <p><b>Perf:</b> 1 SPF, 47 holes</p> <p>3685-3691, 3700-3720, 3726-3744</p> <p>CIBP @ 3752'</p> <p><b>Perf:</b> 1 SPF, 39 holes</p> <p>3759-3762, 3773-3775, 3782-3784, 3798-3800, 3804-3806, 3810-3812, 3821-3824, 3826-3834, 3842-3848</p> <p>Retainer @ 3880'</p> <p><b>Perf:</b> 1 SPF</p> <p>3892-3896, 3914-3920, 3924-3926, 3928-3930</p> <p>5-1/2" @ 4000' w 750 sx Cmt</p> <p>Circulate 119 sxs to pit.</p>																											
7 RVRS	3,198'																													
QUEEN	3,566'																													
GRAYBURG	3,850'																													
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