

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-101  
Revised March 17, 1999

Submit to appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address Fasken Oil and Ranch, Ltd. 303 W. Wall Ave., Suite 1800 Midland, TX 79701-5116						<sup>2</sup> OGRID Number 151416					
<sup>3</sup> Property Code 018234						<sup>5</sup> Property Name Indian Hills Unit				<sup>3</sup> API Number 30-015-30703	
<sup>6</sup> Well No. 16											
<sup>7</sup> Surface Location											
UL or lot no. E	Section 17	Township 21S	Range 24E	Lot Idn	Feet from the 2200	North/South line North	Feet from the 660	East/West line West	County Eddy		
<sup>8</sup> Proposed Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
<sup>9</sup> Proposed Pool 1 Staple Canyon Rim (Atoka)					<sup>10</sup> Proposed Pool 2						
<sup>11</sup> Work Type Code P		<sup>12</sup> Well Type Code G		<sup>13</sup> Cable/Rotary R		<sup>14</sup> Lease Type Code S		<sup>15</sup> Ground Level Elevation 3914'			
<sup>16</sup> Multiple No		<sup>17</sup> Proposed Depth		<sup>18</sup> Formation Atoka		<sup>19</sup> Contractor Not available		<sup>20</sup> Spud Date 2/15/03			
<sup>21</sup> Proposed Casing and Cement Program											
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC						
12 1/4"	9 5/8"	36#	2408'	1600	surface						
8 3/4"	4 1/2"	11.6#	9869'	900							
<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.  Fasken Oil and Ranch, Ltd. proposes to plugback and recomplete this well to the Atoka. Please see the attached procedure. This location is a non-standard location according to Rule 104. An application for an administrative order was filed with the NMOCD Santa Fe office on January 16, 2003.											
<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Jimmy D. Carlie</i>						OIL CONSERVATION DIVISION Approved by: <b>ORIGINAL SIGNED BY TIM W. GUM</b> <b>DISTRICT H SUPERVISOR</b>					
Printed name: Jimmy D. Carlie						Title:					
Title: Regulatory Affairs Coordinator						Approval Date: <b>FEB - 5 2003</b>		Expiration Date: <b>FEB - 5 2004</b>			
Date: 1/31/03		Phone: (915) 687-1777				Conditions of Approval: Attached <input type="checkbox"/>					

**Recommended Recompletion Procedure  
Indian Hills Unit No. 16  
2200' FSL & 660' FWL  
Sec 17, T21S R24E  
AFE 597**

<b>OBJECTIVE:</b>	Recomplete from Morrow to Atoka
<b>WELL DATA:</b>	
9-5/8" 36# J-55 casing:	Set at 2409' cement circ.
4-1/2" 11.6# N-80 casing:	Set at 9,869'
KB:	15'
TD:	9,875'
PBTD:	9,821.44' float collar
Packer:	2-3/8"x 4-1/2" Arrowset 1x 10K pkr w/ TOSSD w/1.781" "F" profile nipple @9542'
Tubing:	305 jts 2-3/8" EUE 8rd N-80, 2 subs 15.85' 2-3/8" EUE 8rd N-80
Perfs:	9626'-9636', 9658'-9670', 9688'-9697', 9700'-9702', 9704'-9707'
	4 JSPF 0.4" entry total 142 holes

1. Set matting boards and pipe racks.
2. RUPU. Kill well with 35 bbl 5% KCL containing 0.5-gpt Claymaster 5C clay control.
3. ND wellhead, NU BOP.
4. Release packer and POW with 2-3/8" tubing and packer.
5. RU wireline lubricator. RIW with 4-1/2" CIBP and set at 9550'. Spot 35' Class "H" cement on CIBP with dump bailer for PBTD of 9515'.
6. Fill casing with 3% KCL water containing packer fluid and ½ gpt BJ's ClayMaster 5C (or equiv.). Pressure test CIBP, casing and BOP to 1500 psi.
7. RIW w/ wireline entry guide, 4-1/2" Arrowset I 10k packer w/TOSSD w/1.781" "F" profile, 2-3/8" 4.7#/ft EUE 8rd N-80 tubing testing in hole to 9500 psi above slips. Set packer at 9250'+/-.
8. ND BOP, NU 2-3/8" wellhead landing tubing with packer in 12,000 lbs compression. Pressure test packer, casing and tree to 1500 psi.
9. Swab tubing fluid level to 8500'+/-.
10. RU wireline company and lubricator. Perforate Atoka sand zones 9324'-9330' and 9350'-9357' with 1JSPF total 15 holes with 1-11/16" strip gun by Schlumberger Three Detector LithoDensity Compensated Neutron GR log dated 6-14-00.
11. Evaluate for stimulation.

If stimulation required. RU BJ Services. RU tree saver. RU pump truck and trap 1500 psi on tubing casing annulus. Acidize perfs 9324'-9357' with 1000 gal mixture of 7-1/2% HCL +25% methanol with 1000 scf/bbl nitrogen dropping 30 7/8" 1.3 sg RCN ball sealers evenly spaced. Flush with 3% kcl water containing 0.5 gpt Clay Master-5C with 1000 scf/bbl nitrogen. Max surface pressure 9500 psi.

Acid additives:

2 gpt CI-27, 1 gpt Ne-940 Non-emulsifier, 1 gpt Inflo-150 Surface Tension reducer, 6 gpt FE-270 Iron Control, 2 gpt FE-271 Iron Control activator, 0.5 gpt Clay Master-5C Clay

Control. Replace 25% of the acid mix water with methanol. 1000 gallons of 7.5% HCL requires 810 gals water and 190 gals 28 Baume HCL, so mix with 608 gals water, 190 gals raw acid, 202 gals methanol.

12. Flow back acid and load water to pit until fire will burn.

13. Return well to sales.

14. Run 4 point test.

cwb

9-26-02

(IHU16 Atoka proc.doc)