



**Fasken Oil and Ranch, Ltd.**  
**Ling Federal No. 4**  
**1660' FSL & 2310' FEL**  
**Sec 31, T19S R34E**  
**AFE 1625**

<b>OBJECTIVE:</b>	Recomplete to Atoka
<b>WELL DATA:</b>	
13-3/8" 54.5#K55&48# H40 casing:	Set at 1586.5' KB. Cmt w/600 sx "C" w/ 2% CaCl <sub>2</sub> (13.5 ppg, 1.74 cuft/sx) + 400 sx "C" w/ 2% CaCl <sub>2</sub> (14.8 ppg, 1/32 ft3/sx).
9-5/8" 40# HCK55&36#J55 csg:	Set at 5172.2' KB, DV @ 3480.66' KB, Cmt 1 <sup>st</sup> stage 400sx HLC (12.6ppg, 2.013ft3/sx)+300sx "C" (14.8ppg, 1.32 cuft/sk). Circ 61 sx thru DV. 2 <sup>nd</sup> stage 1200sx HLC (12.6ppg, 2.01ft3/sx) +300sx "C" (14.8ppg, 1.32 cuft/sk). 9-5/8" TOC surf, circ154sx
5-1/2" 17#&20# N-80:	Set at 13,569.67' KB, DV @ 10,662' KB, Cmt 1 <sup>st</sup> stage 270sx Econocem "H" Modified(11.9ppg,2.45cuft/sk) + 375 sx Super "H" Mod (13.2 ppg, 1.63 ft3/sx), Circ mudflush thru DV. Cmt 2 <sup>nd</sup> stage 860sx Halliburton Lite"H" (12.4 ppg, 2.03 ft3/sx) + 380sx Super "H" Modified (13.2 ppg, 1.63 ft3/sx). 5-1/2" TOC 3463' by Temp
Packer:	Marker jts (drlg tally). 11.87' @13,097.55', 11.50' @ 9208.42' 2-3/8" WL re-entry guide, 15 jts- 2-3/8" EUE 8rd N-80 tubing, 5-1/2" Arrowset 10K packer at 12690' in 20 pts compression with TOSSD w/1.875" "X" profile nipple w/ EOT @ 13,140'. No packer fluid above the packer
Tubing:	2-3/8" EUE 8rd N-80.
Perfs:	Morrow 13190'-13216'.
TD:	13,577'
PBTD:	13,240' CIBP

1. RUPU. NDWH and NU BOP.
2. Release packer and let tubing and tubing/casing annulus equalize and POW with tubing. If necessary, send packer in to be redressed.
3. RUWL. RIW with 5-1/2" CIBP and set @ 13,100' correlated to Enertech's Perforating Depth Control Log w/ Gamma Ray/CCL dated December 2, 2008. Dump bail 35' of Class "H" cement on top. POW and RDWL.
4. RIW with 2-3/8" WL re-entry guide, 5-1/2" 1x10k Arrowset packer with 1.875" "X" profile nipple, TOSSD, and 2-3/8" tubing and set packer @ +/- 12,450'.
5. Release TOSSD and displace well with 10# brine water containing packer fluid. Latch TOSSD back onto packer.
6. ND BOP and NUWH, putting 20 pts of compression on packer.
7. RU swab and swab fluid level down to 10,000' FS (~5,700 psi underbalanced).
8. RUWL and full 10k lubricator. RIW with Gamma gun/CCL and 1-11/16" strip gun and perforate Atoka 1 JSPF, 0.25" EH, and 0° phased @ 12,516'-12,524' (9 holes). Correlate perforations to Enertech's Perforating Depth Control Log w/ Gamma Ray/CCL dated December 2, 2008. Make note of any changes in pressure after perforating. POW, make sure all shots fired, and RDWL.
9. After evaluating flow rate, place well on sales line.
10. RDPU and clean wellhead and location.

11. If further stimulation is necessary, RU stimulation company and 10k tree saver. Pressure tubing/casing annulus to 1,500 psi and monitor throughout job. Acidize Atoka perforations with 10,000 scf N<sub>2</sub> pad, 1,000 gallons of 7-1/2% NEFE HCl containing 3 gpt Ferrotrol 280L, 2 gpt CI-25, 1 gpt Acigel, 1 gpt Inflo-150, 1 gpt NE-940 (or similar additives) and 750/bbl scf of N<sub>2</sub>. Flush with 2% KCl water containing 750/bbl scf N<sub>2</sub>. Record instantaneous, 5", 10", and 15" shut-in pressures. Max pressure = 8,900 psi.
12. Swab and flowback well to establish natural flow. Place well on sales.
13. Report rates on daily drilling report.

CWB/csl 3-10-09  
1-8-09

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

MAR 31 2005

HOBBS

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-38748	<sup>2</sup> Pool Code 96485	<sup>3</sup> Pool Name Quail Ridge; Atoka (Gas)
<sup>4</sup> Property Code 18167	<sup>5</sup> Property Name Ling Federal	<sup>6</sup> Well Number 4
<sup>7</sup> OGRID No. 151416	<sup>8</sup> Operator Name Fasken Oil and Ranch, Ltd.	<sup>9</sup> Elevation 3623' GL

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	31	19S	34E		1660'	South	2310'	East	Lea

<sup>11</sup> 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>12</sup> Dedicated Acres 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<sup>16</sup>				<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i> Signature: <u>Kim Tyson</u> Date: <u>3-17-09</u> Printed Name: <u>Kim Tyson</u>
● #5			● #3	
● #6			● #1	
● #2			● #4	<sup>18</sup> SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</i> Date of Survey: _____ Signature and Seal of Professional Surveyor: _____ Certificate Number: _____