

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
P.O. Box Drawer DD, Artesia, NM 88211-0719
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-101
Revised February 10, 1999
Instructions on bac
Submit to Appropriate District Office
State Lease - 6 Copie
Fee Lease - 5 Copie

☐ AMENDED REPORT

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

¹ Operator Name and Address CHEVRON USA INC 15 SMITH RD, MIDLAND, TX 79705		² OGRID Number 4323 ✓
⁴ Property Code 2615	⁵ Property Name EUNICE KING ✓	⁶ Well No. 15 ✓

⁷ Surface Location									
UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
F	28	21-S	37-E		2086'	NORTH	2086'	WEST	LEA

⁸ Proposed Bottom Hole Location If Different From Surface									
UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
⁹ Proposed Pool 1 HARE SIMPSON ✓					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3461' GL
¹⁶ Multiple No	¹⁷ Proposed Depth 8146'	¹⁸ Formation SIMPSON	¹⁹ Contractor	²⁰ Spud Date 11/1/2006

²¹ Proposed Casing and Cement Program					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
NO CHANGE					

²² 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.

CHEVRON U.S.A. INC. INTENDS TO RECOMLETE THE SUBJECT WELL FROM THE BLINEBRY OIL & GAS ZONE TO THE HARE SIMPSON FIELD AND RESERVOIR.

A PIT WILL NOT BE USED FOR THIS PLUGBACK. A STEEL FRAC TANK WILL BE UTILIZED.

THE INTENDED PROCEDURE, AND CURRENT AND PROPOSED WELLBORE DIAGRAMS ARE ATTACHED FOR YOUR APPROVAL.

Permit Expires 1 Year From Approval
Data Unless Drilling Underway
Plugback

²³ I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature *Denise Pinkerton*

Printed Name Denise Pinkerton

Title Regulatory Specialist

Date 10/16/2006

Telephone 432-687-7375

OIL CONSERVATION DIVISION

Approved By: *Chris Williams*

Title:

OC DISTRICT SUPERVISOR/GENERAL MANAGER

Approval Date:

Expiration Date:

Conditions of Approval:
Attached ☐

OCT 18 2006

Eunice King # 15
Hare; Simpson Field
T21S, R37E, Section 28
Job: Recomplete Deeper In Simpson Formation

Procedure: (Revised 10/12/06)

1. ***This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 10/6/2006. Verify what is in the hole with the well file in the Eunice Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.***
2. Displace flowline with fresh water. Have field specialist close valve at header. Pressure line according to the type of line. Buried fiberglass lines will be tested with 300 psi. All polypipe (SDR7 and SDR11) will be tested w/100 psi. All steel lines will be tested w/500 psi. If a leak is found, contact Donnie Ives for repair/replacement. If test is good, bleed off pressure and **open valve** at header. Document this process in the morning report.
3. MI & RU pulling unit. Bleed pressure from well, if any. Pump down csg with 8.6 PPG cut brine water, if necessary to kill well. POH with rods and pump. Remove WH. Install BOP's and test as required. POH LD 2 3/8" tbg string.
4. PU and GIH with 6 1/8" MT bit and 2 7/8" work string to PBTD at 7015'. POH with 2 7/8" work string and bit. LD bit.
5. PU & GIH with 7" pkr on 2 7/8" work string to 5800'. Set pkr at 5800'. Pressure test pkr and csg from 5800-7015' to 1000 psi. Release pkr. PUH to 5400'. Set pkr at 5400'. Pressure test pkr and csg to 350 psi. **Note: Well will be a producer so a slight pressure loss is acceptable. If csg will not test satisfactorily, discuss with Engineering before proceeding with cmt sqz.** Release pkr. POH with 2 7/8" work string and pkr. LD pkr. PU & GIH with 7" tbg-set CICR on 2 7/8" work string to 5400', testing to 5500 psi. Set CICR at 5400'. Pressure test pkr and csg to 350 psi. **Note: Do not exceed 350 psi casing pressure due to cmt sqzd perfs from 5093-5193'.** Leave pressure on casing while cmt squeezing. Establish injection rate into perfs 5454-5740'. Report injection rate and pressure to WEO Engineer for cement design/tool type.
6. RU DS Services cementing equipment. Cement squeeze perfs 5454-5740' using Class C cement mixed to 14.8 PPG w/ 1.35 CFY. Attempt to achieve at least 1500 psi surface squeeze pressure. Sting out of CICR. Reverse out excess cement. POH with 2 7/8" work string and stinger. LD stinger. RD and release DS Services cementing equipment. Shut well in and WOC overnight.

7. Open well and bleed off any pressure. PU and GIH with 6 1/8" MT bit on 2 7/8" work string to top of CICR at 5400'. Drill out CICR and cement to 6000'. Reverse circulate well clean from 6000' using 8.6 PPG cut brine water. Pressure test casing and sqzd perfs to 350 psi. If perfs leak, repeat cmt sqz procedure. **Note: Since well is a producer, a slight pressure loss is acceptable.** Clean out 7" casing to PBTD at 7015'. Drill out cement and CIBP at 7050'. Cleanout 7" casing to 7300'. Reverse circulate well clean from 7300', if possible. POH with 2 7/8" work string and bit. LD bit.
8. PU & GIH with 7" tbg-set CICR on 2 7/8" work string to 6975', testing to 5500 psi. Set CICR at 6975'. Pressure test CICR and csg to 350 psi. **Note: Do not exceed 350 psi casing pressure due to cmt sqzd perfs. Also, well will be a producer so a slight pressure loss is acceptable.** Leave pressure on casing while cmt squeezing. Establish injection rate into perfs 7112-7200'. Report injection rate and pressure to WEO Engineer for cement design/tool type.
9. RU DS Services cementing equipment. Cement squeeze perfs 7112-7200' using Class H cement mixed to 14.8 PPG w/ 1.35 CFY. Attempt to achieve at least 2000 psi surface squeeze pressure. Sting out of CICR. Reverse out excess cement. POH with 2 7/8" work string and stinger. LD stinger. RD and release DS Services cementing equipment. Shut well in and WOC overnight.
10. PU and GIH with 6 1/8" MT bit on 2 7/8" work string to top of CICR at 6975'. Drill out CICR and cement to 7250'. Reverse circulate well clean from 7250' using 8.6 PPG cut brine water. Pressure test casing and sqzd perfs to 350 psi. If perfs leak, repeat cmt sqz procedure. **Note: Since well is a producer, a slight pressure loss is acceptable.** Cleanout 7" casing to PBTD at 7303'. Drill out cement and CIBP at 7310'. Clean out 7" casing and open-hole to 8000'. Reverse circulate well clean from 8000', if possible. POH with 2 7/8" work string and bit. LD bit.
11. PU & GIH 7" pkr on 2 7/8" work string to approximately 7850'. Set pkr at 7850'. Pressure test casing and sqzd perfs to 350 psi.
12. GIH and swab test Ellenburger open-hole interval 7942-8146'. Report oil cut, recovered fluid volumes, pressures, and/or swabbing fluid levels. **Note: Discuss swab results with Engineering before continuing with procedure.**
13. Open well. Bleed off pressure, if any. Release pkr. POH with 2 7/8" work string and packer. LD pkr.
14. MI & RU Baker Atlas electric line unit. Install lubricator and test to 2000 psi. GIH and set CIBP at 7930'. POH. Pressure test casing and CIBP to 350 psi. GIH and dump bail 10' of cement on top of CIBP at 7930'. POH. GIH with 3 3/8" Predator casing gun and perforate from 7508-18', 7524-34', 7552-58', 7562-68', 7572-78', 7582-86', 7591-7601', 7608-12', 7624-34', 7638-48', 7653-58', 7682-88', 7698-7708', 7726-30', 7784-94', 7830-34', 7854-64', and 7900-06' with 4 JSPF at 120

degree phasing, using 32 gram premium charges. POH. RD & release electric line unit. **Note:** Use csg collars from PGAC GR-Neutron Log dated 5/13/60 for depth correction.

15. PU and GIH w/ 7" 10K Arrow-Set IX pkr (or equivalent) & On-Off tool w/ 2.25" "F" profile and 234 jts. of 3 1/2" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 7250'. Install frac head. Pressure annulus to 350 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication. **Note:** Do not exceed 350 psi casing pressure due to cmt sqzd perfs.
16. MI & RU DS Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). Frac well down 3 1/2" tubing at **35 BPM** with 42,000 gals of YF130 and 108,000 lbs **resin-coated** 20/40 mesh CR2040 proppant. Observe a maximum surface treating pressure of **8000 psi**. Tag frac with 1 radioactive isotope (tag all proppant stages). Pump job as follows:

Pump 2,000 gals 2% KCL water pre-pad at **20 BPM**
Pump 10,000 gals YF130 pad containing 5 GPT J451 Fluid Loss Additive at **35 BPM**
Pump 8,000 gals YF130 containing 0.5 PPG **resin-coated** 20/40 mesh CR2040 proppant & 5 GPT J451 FL Additive
Pump 3,000 gals YF130 containing 1.5 PPG **resin-coated** 20/40 mesh CR2040 proppant
Pump 3,000 gals YF130 containing 2.5 PPG **resin-coated** 20/40 mesh CR2040 proppant
Pump 4,000 gals YF130 containing 3.5 PPG **resin-coated** 20/40 mesh CR2040 proppant
Pump 4,000 gals YF130 containing 4.5 PPG **resin-coated** 20/40 mesh CR2040 proppant
Pump 5,000 gals YF130 containing 5.5 PPG **resin-coated** 20/40 mesh CR2040 proppant
Pump 5,000 gals YF130 containing 6.5 PPG **resin-coated** 20/40 mesh CR2040 proppant.

Flush to 7458' with 3,025 gals WF130. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services and Tracer-Tech Services. **Leave well SI overnight.**
17. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 1/2" work string, on-off tool, and pkr.
18. PU and GIH with 6 1/8" MT bit on 2 7/8" work string to PBTD at 7935'. Reverse circulate well clean from 7935' using 8.6 PPG cut brine water. POH with 2 7/8" work string and bit. LD bit. **Note:** If well will not circulate, MI&RU air unit and clean out using foam.
19. PU & GIH with 7" pkr on 2 7/8" work string to 7400'. Set pkr at 7400'. Open well. GIH and swab well until there is no sand inflow. MI & RU Baker Atlas electric line unit. Install lubricator and test to 2000 psi. GIH and conduct after-frac GR/CCL log from 7920' up to 7000'. POH. RD & release electric line unit. **Note:** Use csg collars from PGAC GR-Neutron Log dated 5/13/60 for depth correction.
20. Release pkr. POH LD 2 7/8" work string and pkr.

21. PU and GIH w/ BP mud anchor jt of 2 7/8" tbg, 2 7/8" x 4' perforated sub, SN, 1 jt 2 7/8" EUE 8R J-55 IPC tbg, 14 jts 2 7/8" EUE 8R J-55 tbg, TAC, and 236 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 7315', with EOT at 7820' and SN at 7785'.
22. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS recommended design. RD & release pulling unit.
23. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

Well: Eunice King # 15

Field: Blinebry O&G

Reservoir: Blinebry

Location:

2086' FNL & 2086' FWL
 Section: 28
 Township: 21S
 Range: 37E
 County: Lea State: NM

Elevations:

GL: 3461'
 KB: 3472'
 DF: 3471'

Current
Wellbore Diagram

Well ID Info:

Chevno: FA7949
 API No: 30-025-06852
 L5/L6: U462300
 Spud Date: 3/16/49
 Compl. Date: 5/13/49

Surf. Csg: 13 3/8", 48#, H-40
Set: @ 291' w/ 300 sks
Hole Size: 17 1/2"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Intern. Csg: 9 5/8", 36#, MY-SS
Set: @ 2800' w/ 1300 sks
Hole Size: 12 1/4"
Circ: No **TOC:** 550'
TOC By: Temperature Survey

Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	11.00
181	Jts. 2 3/8" EUE 8R J-55 Tbg	5623.35
	SN	1.10
	2 7/8" x 4" Perf Tbg Sub	4.00
	Bull Plug	0.50
181	Bottom Of String >>	5639.95

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WFO Engineer, WFO Rep. O.S., A.L.S. & F.S. prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

CIBP @ 7050'
 (35' cmt on top)

CIBP @ 7310'
 (7' cmt on top)

COTD: 7015'
PBTD: 7015'
TD: 8146'

Updated: 10/6/06

By: A. M. Howell

Perfs:
 5093-97'
 5110-14'
 5129-37'
 5159-65'
 5186-93'

Status:
 Paddock - Cmt Sqzd
 Paddock - Cmt Sqzd
 Paddock - Cmt Sqzd
 Paddock - Cmt Sqzd
 Paddock - Cmt Sqzd

5454-56' Blinebry - Open
 5528-30' Blinebry - Open
 5576-78' Blinebry - Open
 5638-40' Blinebry - Open
 5692-94' Blinebry - Open
 5738-40' Blinebry - Open

7112-20' Abo - Below CIBP
 7154-60' Abo - Below CIBP
 7187-7200' Abo - Below CIBP

Prod. Csg: 7", 23 & 26#, J-55 & N-80
Set: @ 7942' w/ 700 sks
Hole Size: 8 3/4"
Circ: No **TOC:** 3865'
TOC By: Temperature Survey

OH fr/7942-8146' - Ellenburger

Well: Eunice King # 15

Field: Hare

Reservoir: Simpson

see
oil**Location:**

2086' FNL & 2086' FWL
 Section: 28
 Township: 21S
 Range: 37E
 County: Lea State: NM

Elevations:

GL: 3461'
 KB: 3472'
 DF: 3471'

**Proposed
Wellbore Diagram****Well ID Info:**

Chevno: FA7949
 API No: 30-025-06852
 L5/L6: U900400
 Spud Date: 3/16/49
 Compl. Date: 5/13/49

Surf. Csg: 13 3/8", 48#, H-40
Set: @ 291' w/ 300 sks
Hole Size: 17 1/2"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Interm. Csg: 9 5/8", 36#, MY-SS
Set: @ 2800' w/ 1300 sks
Hole Size: 12 1/4"
Circ: No **TOC:** 550'
TOC By: Temperature Survey

Tubing Detail:

Qty:	Size:	Footage
	KB Correction	11.00
236	Jts. 2 7/8" EUE 8R J-55 Tbg	7304.00
	TAC	3.15
14	Jts. 2 7/8" EUE 8R J-55 Tbg	434.00
1	Jt. 2 7/8" EUE 8R J-55 IPC Tbg	31.00
	SN	1.10
	2 7/8" x 4' Perf Tbg Sub	4.00
1	Jt. 2 7/8" EUE 8R J-55 Tbg	31.00
	Bull Plug	0.50
252	Bottom Of String >>	7819.75

Perfs:

5093-97'
 5110-14'
 5129-37'
 5159-65'
 5186-93'

Status:

Paddock - Cmt Sqzd
 Paddock - Cmt Sqzd
 Paddock - Cmt Sqzd
 Paddock - Cmt Sqzd
 Paddock - Cmt Sqzd

5454-56'
 5528-30'
 5576-78'
 5638-40'
 5692-94'
 5738-40'

Blinbry - Cmt Sqzd
 Blinbry - Cmt Sqzd
 Blinbry - Cmt Sqzd
 Blinbry - Cmt Sqzd
 Blinbry - Cmt Sqzd
 Blinbry - Cmt Sqzd

7112-20'
 7154-60'
 7187-7200'

Abo - Cmt Sqzd
 Abo - Cmt Sqzd
 Abo - Cmt Sqzd

7508-18'
 7524-34'
 7552-58'
 7562-68'
 7572-78'
 7582-86'
 7591-7601'
 7608-12'
 7624-34'
 7638-48'
 7653-58'
 7682-88'
 7698-7708'
 7726-30'
 7784-94'
 7830-34'
 7854-64'
 7900-06'

Simpson - Open
 Simpson - Open
 Simpson - Open
 Simpson - Open
 Simpson - Open
 Simpson - Open
 Simpson - Open
 Simpson - Open
 Simpson - Open
 Simpson - Open
 Simpson - Open
 Simpson - Open
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Prod. Csg: 7", 23 & 26#, J-55 & N-80
Set: @ 7942' w/ 700 sks
Hole Size: 8 3/4"
Circ: No **TOC:** 3865'
TOC By: Temperature Survey

OH fr/7942-8146' - Ellenburger

CIBP @ 7930'
 (10' cmt on top)

COTD: 7920'
PBTD: 7920'
TD: 8146'

Updated: 10/6/06

By: A. M. Howell

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the update with the well file in the Eunice Field Office. Discuss with WCO Engineer, We Rep, OS, ALS & RS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

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1000 Rio Brazos Rd., Aztec, NM 87410

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OIL CONSERVATION DIVISION

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Form C-102

Revised February 10, 1999

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-06852	² Pool Code 29830 ✓	³ Pool Name HARE; SIMPSON
⁴ Property Code 2615	⁵ Property Name EUNICE KING	⁶ Well No. 15
⁷ OGRID Number 4323	⁸ Operator Name CHEVRON USA INC	⁹ Elevation 3461' GL

¹⁰ Surface Location

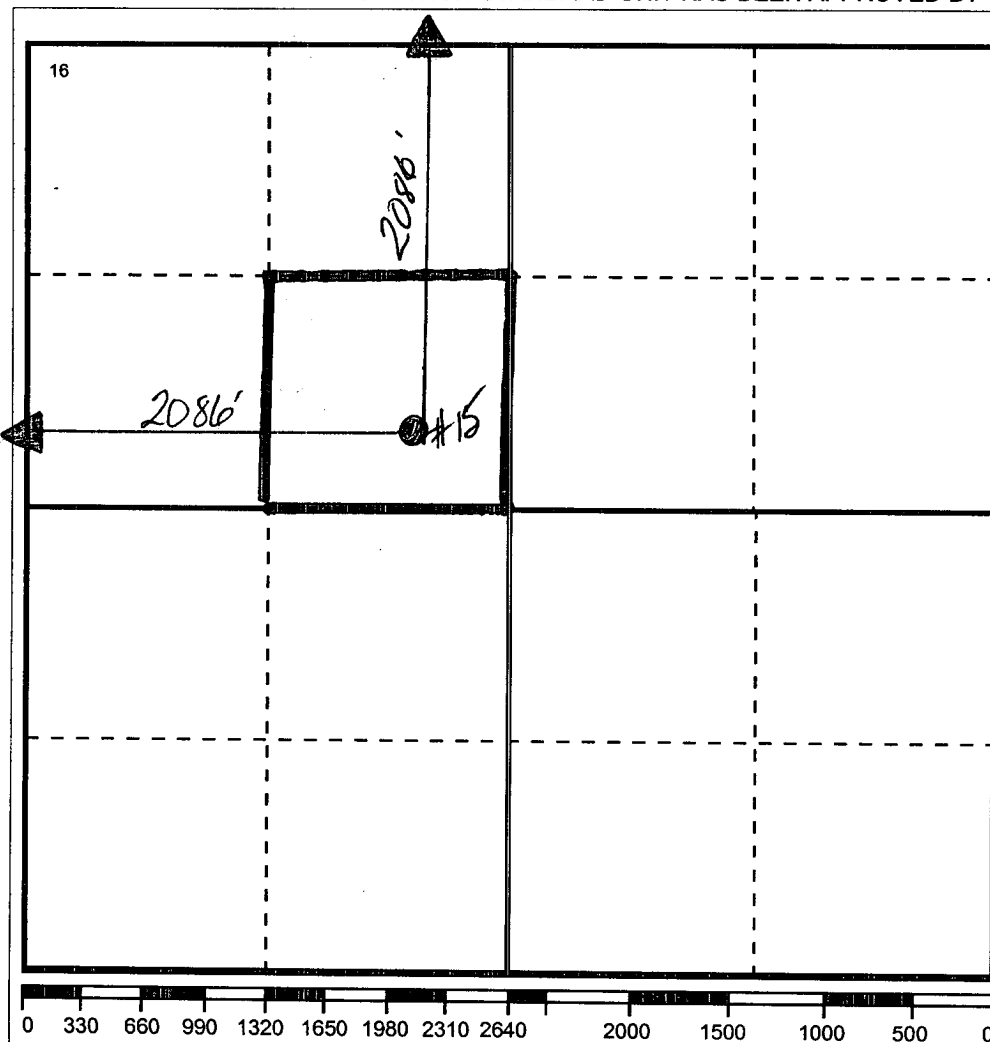
UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
F	28	21-S	37-E		2086'	NORTH	2086'	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County

¹² Dedicated Acre 40	¹³ Joint or Infill No	¹⁴ Consolidation Code	¹⁵ Order No.
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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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Printed Name

Denise Pinkerton

Position

Regulatory Specialist

Date

10/16/2006

18 SURVEYOR CERTIFICATION

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 knowledge and belief.

Date Surveyed

Signature & Seal of
Professional Surveyor

Certificate No.