

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

Form C-101

Revised February 10, 199

Instructions on bac

Submit to Appropriate District Office

State Lease - 6 Copie

Fee Lease - 5 Copie

☐ AMENDED REPORT

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

¹ Operator Name and Address CHEVRON USA INC 15 SMITH ROAD, MIDLAND, TX 79705		² OGRID Number 4323
		³ API Number 30-025-06856
⁴ Property Code	⁵ Property Name EUNICE KING	⁶ Well No. 19

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
C	28	21S	37E		660'	NORTH	1980'	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
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⁹ Proposed Pool 1 PENROSE SKELLY GRAYBURG	¹⁰ Proposed Pool 2
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¹¹ Work Type Code P	¹² WellType Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code Fee	¹⁵ Ground Level Elevation
¹⁶ Multiple No	¹⁷ Proposed Depth 7967'	¹⁸ Formation GRAYBURG	¹⁹ Contractor	²⁰ Spud Date 5/15/2003

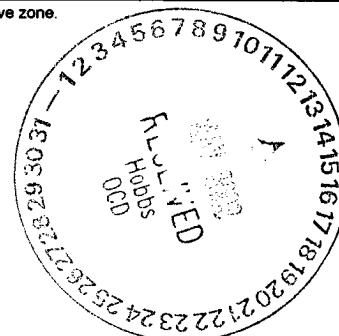
²¹ Proposed Casing and Cement Program

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 RECOMPLETE THE SUBJECT WELL TO THE GRAYBURG FORMATION. THE INTENDED PROCEDURE AND WELLBORE DIAGRAMS IS ATTACHED FOR YOUR APPROVAL.

Permit Expires 1 Year From Approval
Date Unless ~~Drilling Underway~~
PLUG-BACK



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.		OIL CONSERVATION DIVISION	
Signature <i>Denise Leake</i>		Approved By: <i>[Signature]</i>	
Printed Name Denise Leake		Title: PETROLEUM ENGINEER	
Title Regulatory Specialist		Approval Date: MAY 19 2003	Expiration Date:
Date 5/2/2003	Telephone 915-687-7375	Conditions of Approval: Attached <input type="checkbox"/>	

Eunice King # 19
Penrose Skelly Field
T21S, R37E, Section 28
Job: PB To Grayburg Formation And Frac Stimulate

Procedure:

1. Displace flowline with fresh water. Have field specialist close valve at header. Pressure line according to the type of line. AGU, EMSU, and EMSUB 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 Larry Williams for repair/replacement. If test is good, bleed off pressure and **open valve** at header. Document this process in the morning report.
2. 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. Remove WH. Install BOP's and test to 1000 psi.
3. PU and GIH with 6 1/4" MT bit and 2 7/8" work string to 5450'. POH with work string and bit. LD bit.
4. PU and GIH with 7" tbg-set CIBP to 5400'. Set CIBP at 5400'. Dump 35' cmt on top of CIBP. PUH to 5100'. Reverse circulate well clean from 5100' using 8.6 PPG cut brine water. POH with 2 7/8" work string. PU and GIH with 7" tbg-set CIBP to 5075'. Set CIBP at 5075'. Dump 35' cmt on top of CIBP. PUH to 5000'. Reverse circulate well clean from 5000' using 8.6 PPG cut brine water. Pressure test csg and CIBP to 500 psi. POH with 2 7/8" work string.
5. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct GR/Compensated Neutron/CCL log from 5000' up to 2600'. POH. **Note: Fax log to Robert Martin ((915) 687-7267) for correlation and picking perfs.** GIH and conduct GR/CBL/CCL log from 5000' up to 2600'. POH. Inspect logs for good cement bond from approximately 4200' up to 3200'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding. Cmt squeeze as necessary to obtain good cmt across completion interval. GIH with 3 1/8" DP slick casing gun and perforate from 3670-3860' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. RD & release electric line unit. **Note: Exact perfs will be adjusted after conducting logs.**
6. PU and GIH w/ 7" PPI pkr (with 10' element spacing) and SCV on 2 7/8" work string to approximately 3650'. Test tbg to 5500 psi while GIH.
7. MI & RU DS Services. Acidize perfs with 50 gals per foot anti-sludge 15% HCl acid ** at a maximum rate of 1/2 BPM and a maximum surface pressure of 3500

psi. Spot acid to bottom of tbg at beginning of each stage. Displace acid with 8.6 PPG cut brine water -- do not overdisplace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release DS services. **Note:** **Pickle tubing in 1 run of 500 gals acid, prior to acidizing perfs. Pickle acid is to contain only 1/2 gal A264 and 1 gal W53. Also, if communication occurs during treatment of any interval, monitor casing pressure and attempt to complete stage w/o exceeding 1000 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals.**

** Acid system is to contain:	1 GPT A264	Corrosion Inhibitor
	8 GPT L63	Iron Control Agent
	2 PPT A179	Iron Control Aid
	20 GPT U66	Mutual Solvent
	2 GPT W53	Non-Emulsifier

8. Release PPI pkr and PUH to approximately 3650'. Swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered fluid volumes, pressures, and/or swabbing fluid levels. **Note: Selectively swab perfs as directed by Engineering if excessive water is produced.**
9. Open well. Release PPI pkr. POH with tbg and PPI packer. LD PPI tool.
10. PU and GIH w/ 7" Lok-Set pkr & On-Off tool w/ 2.25" "F" profile and 112 jts. of 3 1/2" EUE 8R L-80 work string, testing to 7500 psi. Set pkr at approximately 3500'. Install frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.
11. MI & RU DS Services. Frac well down 3 1/2" tubing at **40 BPM** with 68,000 gals of YF135, 130,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR4000 proppant. Observe a maximum surface treating pressure of **7400 psi**. Pump job as follows:

Pump 2,000 gals 2% KCL water containing 110 gals Baker SCW-358 Scale Inhibitor
Pump 1,000 gals 2% KCL water spacer
Pump 28,000 gals YF135 pad containing 5 GPT J451 Fluid Loss Additive
Pump 4,000 gals YF135 containing 1 PPG 16/30 mesh Jordan Sand
Pump 4,000 gals YF135 containing 2 PPG 16/30 mesh Jordan Sand
Pump 6,000 gals YF135 containing 3 PPG 16/30 mesh Jordan Sand
Pump 8,000 gals YF135 containing 4 PPG 16/30 mesh Jordan Sand
Pump 10,000 gals YF135 containing 5 PPG 16/30 mesh Jordan Sand
Pump 3,000 gals YF135 containing 6 PPG 16/30 mesh Jordan Sand
Pump 5,000 gals YF135 containing 6 PPG **resin-coated** 16/30 mesh CR4000 proppant

Flush to 3640' with 1,512 gals WF135. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services. **Leave well SI overnight.**

12. Open well. Release pkr and POH with 3 1/2" work string. Lay down work string and pkr.
13. PU 6 1/4" MT bit and GIH on 2 7/8" work string to top of sand fill in 7" csg. Establish circulation using 8.7 PPG cut brine water. LD and cleanout wellbore to 4200'. Reverse circulate well clean from 4200' using 8.6 PPG cut brine water. POH with 2 7/8" work string and bit. LD 2 7/8" work string and bit.
14. PU and GIH w/ BP mud anchor jt of 2 7/8" tbg, 2 7/8" x 4' perforated sub, SN, 8 jts 2 7/8" EUE 8R J-55 tbg, TAC, and 118 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 3650', with EOT at 3935' and SN at 3900'.
15. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS recommended design. RD & release pulling unit.
16. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

AMH
4/29/2003

WELL DATA SHEET

FIELD: Blinebry
FORMATION: Blinebry
LOC: 660' FNL 1980' FWL
TOWNSHIP: 21S
RANGE: 37E
LOT: C

WELL NAME: Eunice King #19
SEC: 28
COUNTY: Lea
STATE: NM

GL: 3466'
KB:
DF:

CURRENT STATUS: PR

API NO: 30-025-06856
REFNO: FA7953
Spud Date: 9/27/49
Date Completed: 11/22/49

SAP: UCU462300

Originally produced in Monument/McKee
McKee Perfs: 7610-7780'

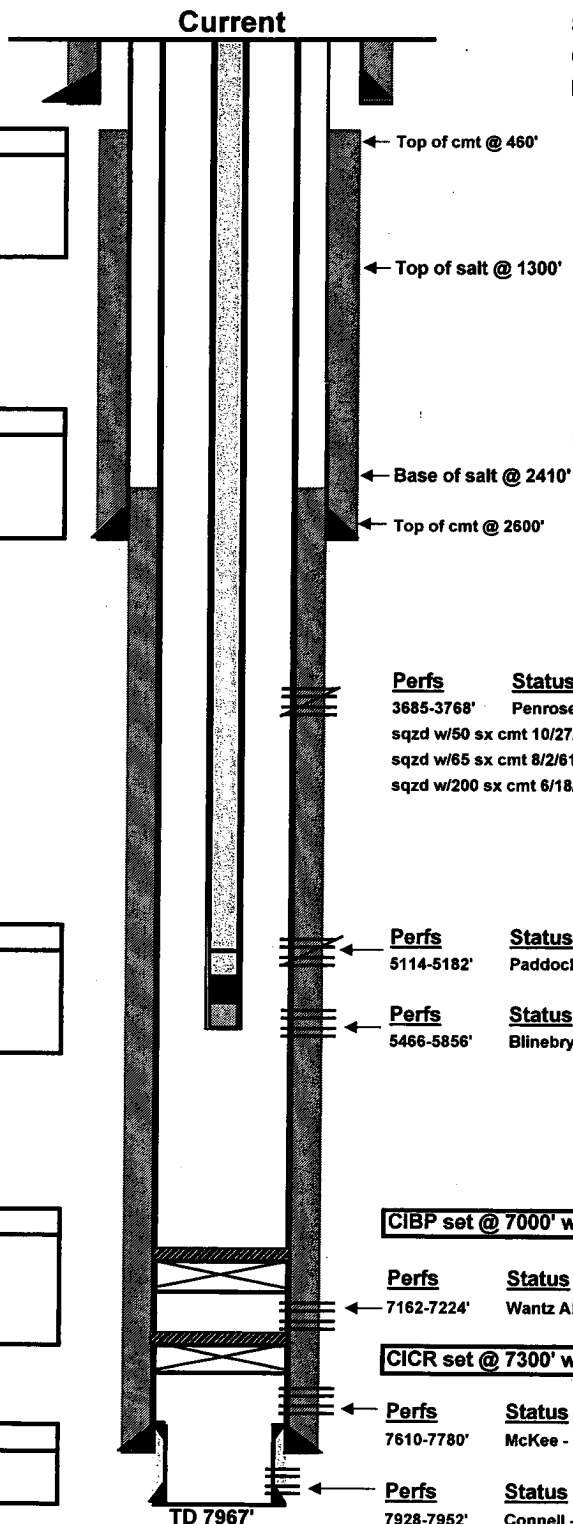
Surface Casing
13-3/8", 48# Csg
Hole size: 17-1/4"
Set @ 297' w/300 sx cmt
Circ cmt to surface

Intermediate Casing
9-5/8", 36# H-40 Csg
Hole size: 12-1/2"
Set @ 2800' w/1300 sx cmt
TOC @ 460' by TS.

Tubing Detail as of 9/6/90
2-3/8" tbg
TAC @ 4992'
SN @ 5435'
EOT @ 5471'

Production Casing
7", 23# & 26#, N-80 Csg
Hole size: 8-3/4"
Set @ 7834' w/700 sx cmt
TOC @ 2600' by TS

5-1/2" Liner, 17#, N80 set @ 7967'
Top of liner @ 7807'
Circ w/18 sx cmt



History
11/54 - Deepened to 7967'. Perf'd Connell (7928-7952').
11/59 - Set CICR @ 7300'. Perf'd Wantz Abo (7162-7224').
11/60 - Set CIBP @ 7000'. Set CICR @ 3900'. Perf'd Penrose Skelly (3685-3741').
9/61 - Sqzd Penrose Skelly. Drld out CICR set @ 3900'. Perf'd Paddock (5114-5182') and Blinebry (5803-5856').
7/82 - Sqzd Paddock
8/90 - Perf'd Blinebry (5466-5745')

Perfs	Status
3685-3768'	Penrose-Skelly - squeezed
sqzd w/50 sx cmt 10/27/60	
sqzd w/65 sx cmt 8/2/61	
sqzd w/200 sx cmt 6/18/82	

Perfs	Status
5114-5182'	Paddock - sqzd w/100 sx cmt

Perfs	Status
5466-5856'	Blinebry - open

CIBP set @ 7000' w/2 sx cmt on top

Perfs	Status
7162-7224'	Wantz Abo - below CIBP

CICR set @ 7300' w/2 sx cmt on top

Perfs	Status
7610-7780'	McKee - below CICR & CIBP

Perfs	Status
7928-7952'	Connell - below CICR & CIBP

WELL DATA SHEET

FIELD: Penrose Skelly
FORMATION: Grayburg
LOC: 660' FNL 1980' FWL
TOWNSHIP: 21S
RANGE: 37E
LOT: C

WELL NAME: Eunice King #19
SEC: 28
COUNTY: Lea
STATE: NM
GL: 3466'
KB:
DF:

CURRENT STATUS: PR
API NO: 30-025-06856
REFNO: FA7953
Spud Date: 9/27/49
Date Completed: 11/22/49
SAP: UCU462300
Originally produced in Monument/McKee
McKee Perfs: 7610-7780'

Proposed

Surface Casing
13-3/8", 48# Csg
Hole size: 17-1/4"
Set @ 297' w/300 sx cmt
Circ cmt to surface

Intermediate Casing
9-5/8", 36# H-40 Csg
Hole size: 12-1/2"
Set @ 2800' w/1300 sx cmt
TOC @ 460' by TS.

Tubing Detail

CIBP set @ 5075' w/35' cmt on top

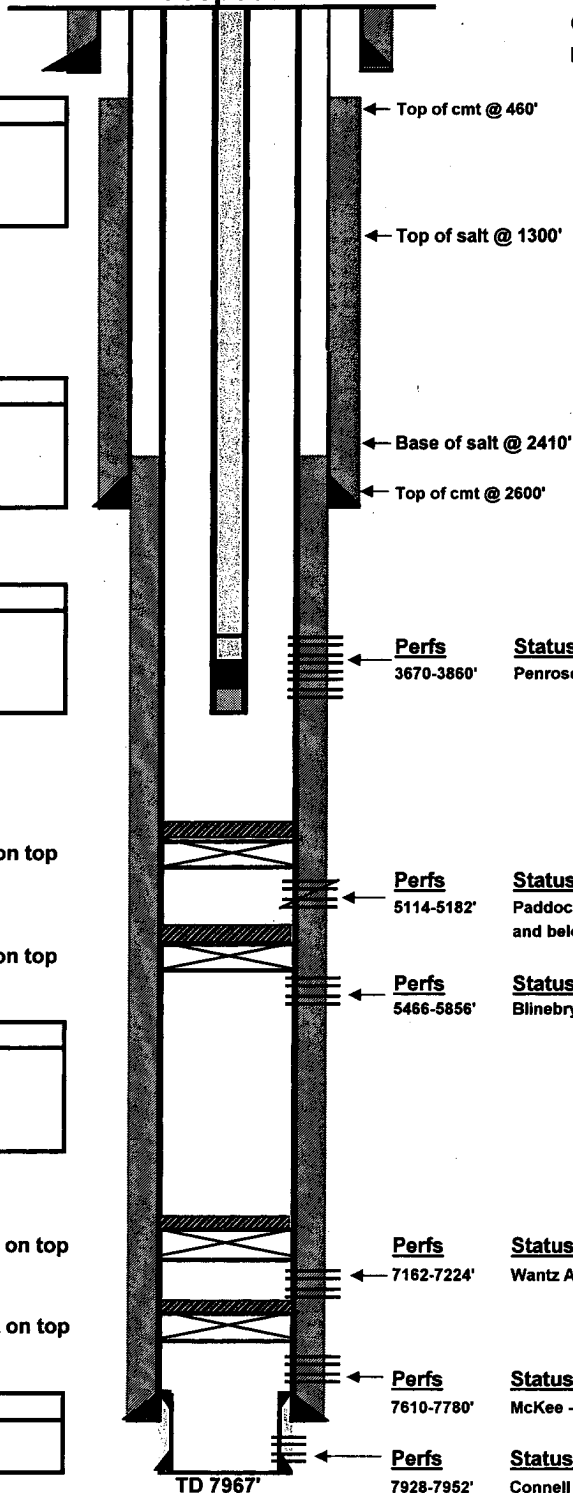
CIBP set @ 5400' w/35' cmt on top

Production Casing
7", 23# & 26#, N-80 Csg
Hole size: 8-3/4"
Set @ 7834' w/700 sx cmt
TOC @ 2600' by TS

CIBP set @ 7000' w/2 sx cmt on top

CICR set @ 7300' w/2 sx cmt on top

5-1/2" Liner, 17#, N80 set @ 7967'
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8/90 - Perfd Blinbry (5466-5745')

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State of New Mexico

Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-06856	² Pool Code 50350	³ Pool Name PENROSE SKELLY GRAYBURG
⁴ Property Code	⁵ Property Name EUNICE KING	⁶ Well No. 19
⁷ OGRID Number 4323	⁸ Operator Name CHEVRON USA INC	⁹ Elevation

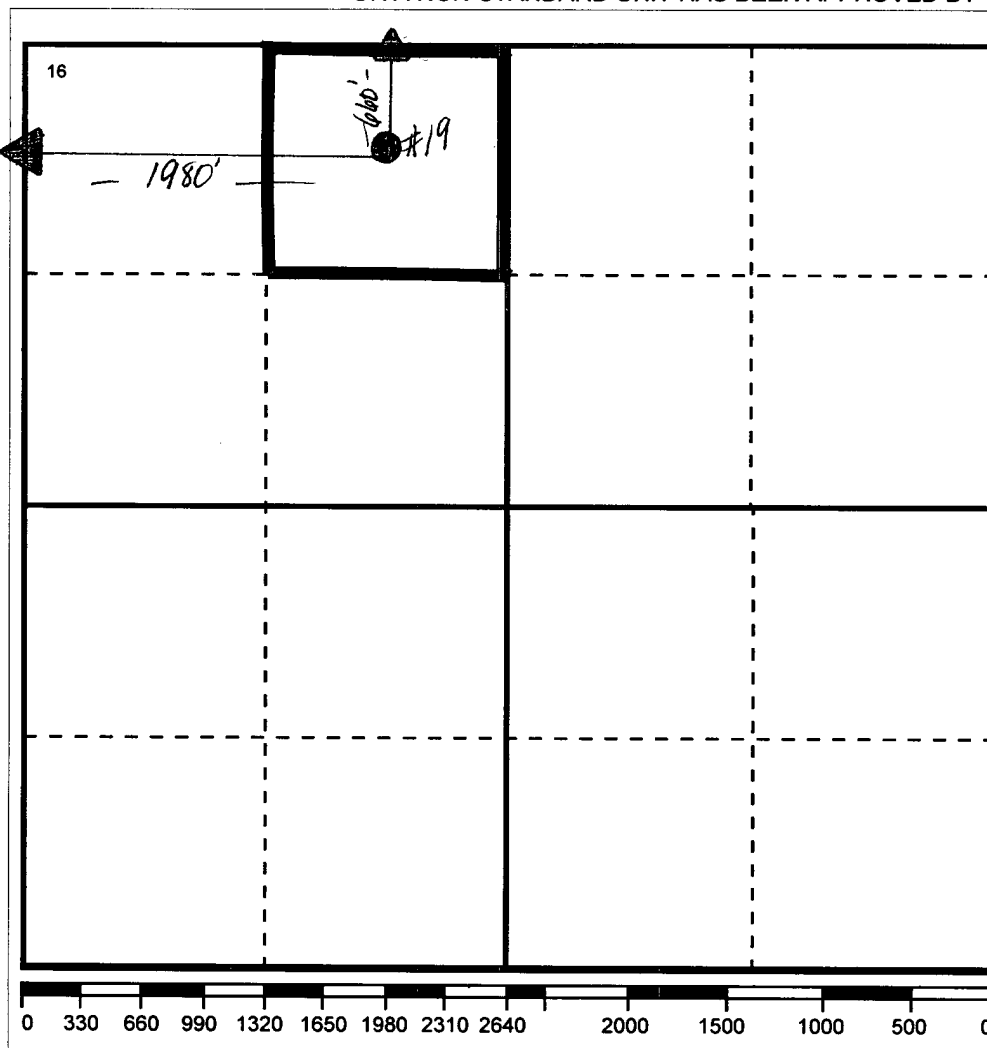
¹⁰ Surface Location

UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
C	28	21S	37E		660'	NORTH	1980'	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.						

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 Leake

Positio

Regulatory Specialist

Date

5/2/2003

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.