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 10,199
Instructions on bac
Submit to Appropriate District Offic
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	2 OGRID Number
CHEVRON USA INC 15 SMITH RD, MIDLAND, TX 79705	4323
	3 API Number 30-025-06843

4 Property Code	5 Property Name	6 Well No.
2615	EUNICE KING	7

7 Surface Location

Ul or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
G	28	21-S	37-E		1980'	NORTH	1980'	EAST	LEA

8 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

9 Proposed Pool 1	10 Proposed Pool 2
PENROSE SKELLY GRAYBURG	

11 Work Type Code	12 WellType Code	13 Rotary or C.T.	14 Lease Type Code	15 Ground Level Elevation
P Re-enter	O	ROTARY	P	3447' GL
16 Multiple	**17 Proposed Depth**	**18 Formation**	**19 Contractor**	**20 Spud Date**
No	8063'	GRAYBURG		4/15/2005

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 zoneand proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

CHEVRON U.S.A. INC. INTENDS TO RE-ENTER THE SUBJECT WELL AND RECOMPLETE FROM THE HARE SIMPSON MCKEE RESERVOIR TO THE PENROSE SKELLY GRAYBURG RESERVOIR.
*** A PIT WILL NOT BE USED FOR THIS PLUGBACK. A STEEL FRAC TANK WILL BE UTILIZED.***

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

PLEASE SEE ATTACHMENT FOR THE INTENDED PROCEDURE.

Permit Expires 1 Year From Approval
Date Unless ~~Drilling~~ Underway
Re-Entry

Received
APR 2005
Hobbs
OCD

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 4/6/2005 Telephone 432-687-7375

OIL CONSERVATION DIVISION

Approved By: PETROLEUM ENGINEER
Title:
Approval Date: Expiration Date:
Conditions of Approval:
Attached ☐
APR 08 2005

DeSoto/Nichols 3-94 ver 1.10

Eunice King # 7
Penrose Skelly Field
T21S, R37E, Section 28
Job: Reenter And Complete In Grayburg Formation

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 Donnie Ives for repair/replacement. If test is good, bleed off pressure and **open valve** at header. Document this process in the morning report.

2. Repair well location and lease road. Dig out around cut off csg strings. Weld on new csg and tubing heads. MI & RU workover unit. Install BOP's and test to 1000 psi. PU 6 ¼" MT bit, DC's, and 2 7/8" work string. Establish reverse circulation using 8.6 PPG cut brine. Drill out cement plug in 7" casing from surface to 350'. LD and cleanout 7" casing to 1000'. Reverse circulate well clean from 1000'. Pressure test csg to 500 psi. LD and drill out cement plug in 7" casing from 1000' to 1150'. LD and cleanout 7" casing to 2750'. Reverse circulate well clean from 2750'. Pressure test csg to 500 psi. . LD and drill out cement plug in 7" casing from 2750' to 2950'. LD and cleanout 7" casing to 3450'. Reverse circulate well clean from 3450'. Pressure test csg to 500 psi. LD and drill out cement and CIBP in 7" casing from 3450' to 3600'. LD and cleanout 7" casing to 4844'. Reverse circulate well clean from 4844'. POH with 2 7/8" work string, DC's, and 6 ¼" bit. LD DC's and bit. **Note: If any set of sqzd perfs fails pressure test, cmt squeeze before drilling ahead and uncovering next set of sqzd perfs. Also, well will be a producer, so a slight pressure loss is acceptable.**

3. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct GR/CBL/CCL log from 4844' up to 2600'. POH. Inspect logs for good cement bond from approximately 4200' up to 3500'. 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 3670-77', 3683-90', 3696-3702', 3714-22', 3732-38', 3758-66', 3774-78', 3784-90', 3798-3806', 3812-18', 3823-29', 3836-44', 3850-54', 3866-72', 3883-91', 3899-3907', and 3922-30' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. RD & release electric line unit. **Note: Use casing collars from Welex Radioactivity Log dated 7/19/60 for depth correction.**

4. 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.

5. MI & RU DS Services. Acidize perfs 3670-3930' with 3,400 gals anti-sludge 15% HCl acid * at a maximum rate **as shown below** and a maximum surface pressure of **3500 psi**. Spot acid across perfs at beginning of each stage and let soak to lower breakdown pressure and prevent communication. Pump job as follows:

Interval	Amt. Acid	Max Rate	PPI Setting
3922-30'	200 gals	½ BPM	3921-31'
3899-3907'	200 gals	½ BPM	3898-3908'
3883-91'	200 gals	½ BPM	3882-92'
3866-72'	200 gals	½ BPM	3864-74'
3850-54'	200 gals	½ BPM	3846-56'
3836-44'	200 gals	½ BPM	3835-45'
3823-29'	200 gals	½ BPM	3820-30'
3812-18'	200 gals	½ BPM	3810-20'
3798-3806'	200 gals	½ BPM	3797-3807'
3784-90'	200 gals	½ BPM	3782-92'
3774-78'	200 gals	½ BPM	3770-80'
3758-66'	200 gals	½ BPM	3757-67'
3732-38'	200 gals	½ BPM	3730-40'
3714-22'	200 gals	½ BPM	3713-23'
3696-3702'	200 gals	½ BPM	3694-3704'
3683-90'	200 gals	½ BPM	3682-92'
3670-77'	200 gals	½ BPM	3668-78'

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 350 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals. Do not exceed 350 psi casing pressure due to cmt sqzd perfs in wellbore.**

* 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

6. 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.**

7. Open well. Release PPI pkr. POH with tbg and PPI packer. LD PPI tool.

8. PU and GIH w/ 7" Lok-Set pkr & On-Off tool w/ 2.25" "F" profile and 118 jts. of 3 ½" EUE 8R L-80 work string, testing to 7500 psi. Set pkr at approximately 3550'. Install frac head. Pressure annulus to 350 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.

9. MI & RU DS Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). Frac well down 3 ½" tubing at **40 BPM** with 84,000 gals of YF130, 160,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR1630 proppant. Observe a maximum surface treating pressure of **7400 psi**. Tag frac with 2 radioactive isotopes (1 in main proppant stages, and 1 in resin-coated proppant stage). Pump job as follows:

   Pump 2,000 gals 2% KCL water containing 55 gals Baker RE 4777-SCW Scale Inhibitor
   Pump 1,000 gals 2% KCL water spacer
   Pump 14,000 gals YF130 pad containing 5 GPT J451 Fluid Loss Additive
   Pump 14,000 gals YF130 containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 FL Additive
   Pump 12,000 gals YF130 containing 1.5 PPG 16/30 mesh Jordan Sand
   Pump 12,000 gals YF130 containing 2.5 PPG 16/30 mesh Jordan Sand
   Pump 12,000 gals YF130 containing 3.5 PPG 16/30 mesh Jordan Sand
   Pump 14,000 gals YF130 containing 4.5 PPG 16/30 mesh Jordan Sand
   Pump 6,000 gals YF130 containing 5 PPG **resin-coated** 16/30 mesh CR1630 proppant.

   Flush to 3642' with 1,449 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.**

10. Open well. Release pkr and POH with 3 ½" work string. Lay down work string and pkr.

11. PU and GIH with 6 ¼" MT bit on 2 7/8" work string to 4500'. If fill is found above 4500', clean out fill to 4500' using 8.6 PPG cut brine water and air unit (if necessary). POH with 2 7/8" work string and bit. LD bit.

12. PU & GIH with 7" pkr on 2 7/8" work string to 3500'. Set pkr at 3500'. Open well. GIH and swab well until there is no sand inflow. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct after-frac GR/Temp/CCL log from 4500' up to 3000'. POH. RD & release electric line unit. **Note: Correlate logs and run flat with Baker Atlas GR/CBL/CCL Log conducted in Step # 3.**

13. Release pkr. POH LD 2 7/8" work string and pkr.

14. PU and GIH w/ Centrilift sub pump assembly, drain sub, 2 7/8" x 6' tbg sub, SN, and 121 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Suspend tbg with bottom of sub pump assembly at approximately 3805'.

15. Remove BOP's and install WH. RD & release workover unit.

16. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

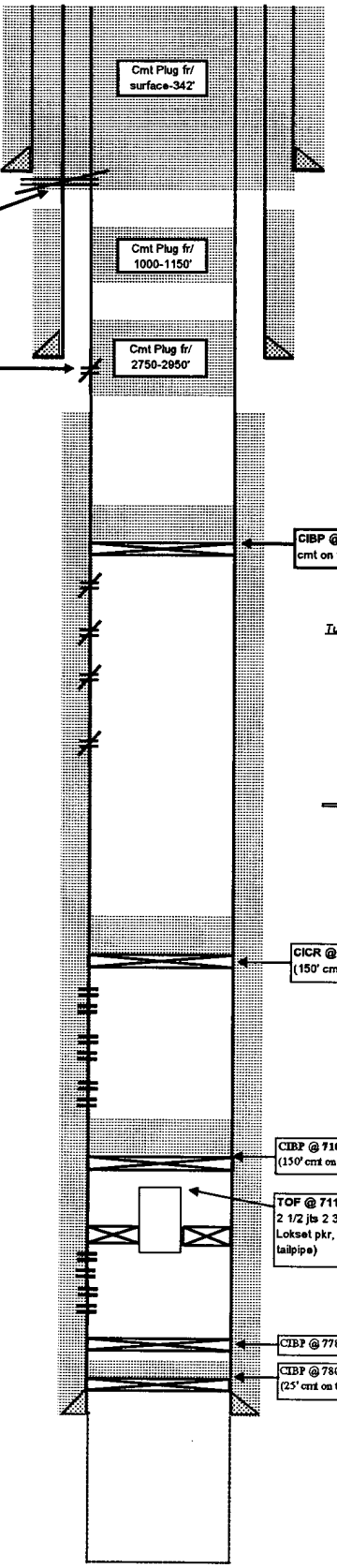
AMH
4/6/2005

Well: **Eunice King # 7** Field: **Hare Simpson** Reservoir: **McKee**

Location:
1980-FNL & 1980-FEL
Section: 28
Township: 21S
Range: 37E
County: LEA, NM.

Elevations:
GL: 3447'
DF: 3457'
KB: 3458'

Current Wellbore Diagram



Well ID Info:
Refno: FA7940
API No: 3002506843
L5/L6: UCU900400
Spud Date: 12/18/1947
Compl. Date: 3/7/48
Wellbore# 047459

Surf. Csg:
Size 13 3/8" OD H-40
Weight 48#
Set: @ 292'
With: 300 sxs
Hole Size: 17 1/4"
Circ: Yes
TOC @ Surface

Int. Csg:
Size 9 5/8" OD H-40
Weight 36#
Set: @ 2850'
With: 1300 sxs
Hole Size: 12 1/4"
Circ: No
TOC @ 1625' by TS

Perfs:	Status:
3677'	U. Grayburg - Cmt Sqzd
3699'	U. Grayburg - Cmt Sqzd
3720'	U. Grayburg - Cmt Sqzd
3735'	U. Grayburg - Cmt Sqzd

Tubing Detail:

#Jts:	Size:	Footage
0	Bottom Of String >>	0.00

Perfs:	Status:
5066'-77'	Paddock - Below CICR
5098'-5104'	Paddock - Below CICR
5118'-28'	Paddock - Below CICR
5138'-44'	Paddock - Below CICR
5152'-60'	Paddock - Below CICR
5168'-74'	Paddock - Below CICR
5180'-84'	Paddock - Below CICR
5188'-98'	Paddock - Below CICR
5206'-10'	Paddock - Below CICR
5262'-72'	Paddock - Below CICR

Perfs	Status
7394'-7420'	McKee Sand - Below CIBP
7433'-7520'	McKee Sand - Below CIBP

Open Hole	Status
7904'-8063'	Ellenburger - Below CIBP

Prod. Csg:
Size 7" OD J-55 & N-80
Weight 23#
Set @ 7904'
With: 800 sxs
Hole Size: 8 3/4"
Circ: No
TOC @ 2985' by TS

PBTD: Surface
TD: 8063'

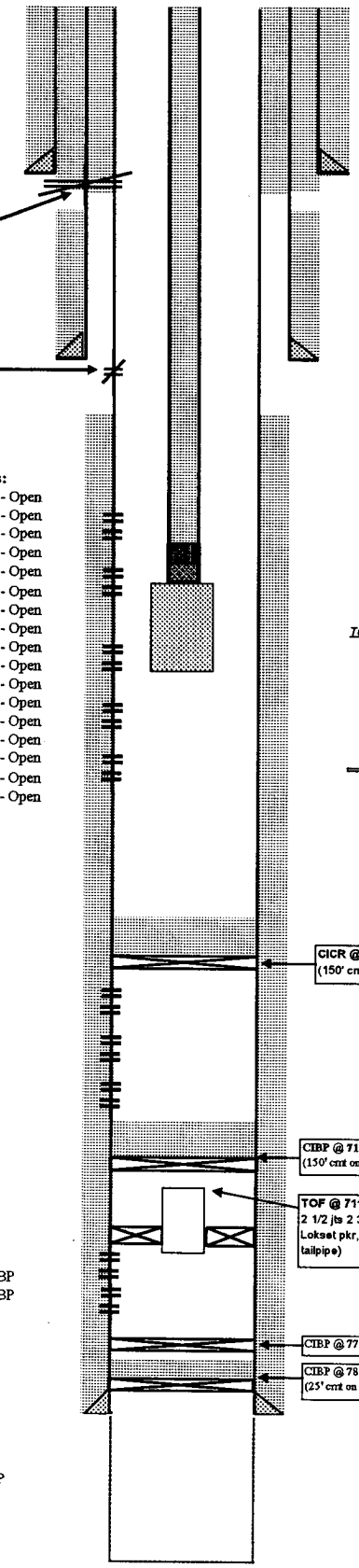
Updated: 5-Apr-05
By: AMH

Well: **Eunice King # 7** Field: **Penrose Skelly** Reservoir: **Grayburg**

Location:
1980-FNL & 1980-FEL
Section: 28
Township: 21S
Range: 37E
County: LEA, NM.

Elevations:
GL: 3447'
DF: 3457'
KB: 3458'

Proposed
Wellbore Diagram



Well ID Info:
Refno: FA7940
API No: 3002506843
L5/L6: UCU491600
Spud Date: 12/18/1947
Compl. Date: 3/7/48
Wellbore# 047459

Surf. Csg:
Size 13 3/8" OD H-40
Weight 48#
Set: @ 292'
With: 300 sxs
Hole Size: 17 1/4"
Circ: Yes
TOC @ Surface

Int. Csg:
Size 9 5/8" OD H-40
Weight 36#
Set: @ 2850'
With: 1300 sxs
Hole Size: 12 1/4"
Circ: No
TOC @ 1625' by TS

Perfs:	Status:
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3696-3702'	Grayburg - Open
3714-22'	Grayburg - Open
3732-38'	Grayburg - Open
3758-66'	Grayburg - Open
3774-78'	Grayburg - Open
3784-90'	Grayburg - Open
3798-3806'	Grayburg - Open
3812-18'	Grayburg - Open
3823-29'	Grayburg - Open
3836-44'	Grayburg - Open
3850-54'	Grayburg - Open
3866-72'	Grayburg - Open
3883-91'	Grayburg - Open
3899-3907'	Grayburg - Open
3922-30'	Grayburg - Open

Tubing Detail:

Jts:	Size:	Footage
	KB Correction	11.00
121	Jts. 2 7/8" J-55 Cl. 'B'	3751.00
	2 7/8" x 6' Tbg Sub	6
	Drain Valve	0.55
	2 7/8" x 2 3/8" X-Over	0.80
	Centrilift Sub Pump	35.41
121	Bottom Of Mtr >>	3804.56

Perfs:	Status:
5066'-77'	Paddock - Below CICR
5098'-5104'	Paddock - Below CICR
5118'-28'	Paddock - Below CICR
5138'-44'	Paddock - Below CICR
5152'-60'	Paddock - Below CICR
5168'-74'	Paddock - Below CICR
5180'-84'	Paddock - Below CICR
5188'-98'	Paddock - Below CICR
5206'-10'	Paddock - Below CICR
5262'-72'	Paddock - Below CICR

Perfs	Status
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7433'-7520'	McKee Sand - Below CIBP

Open Hole	Status
7904'-8063'	Ellenburger - Below CIBP

Prod. Csg:
Size 7" OD J-55 & N-80
Weight 23#
Set @ 7904'
With: 800 sxs
Hole Size: 8 3/4"
Circ: No
TOC @ 2985' by TS

PBTD: 4844'
TD: 8063'

Updated: 5-Apr-05
By: AMH

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-025-06843	50350	PENROSE SKELLY GRAYBURG

4 Property Code	5 Property Name	6 Well No.
2615	EUNICE KING	7

7 OGRID Number	8 Operator Name	9 Elevation
4323	CHEVRON USA INC	3447' GL

10 Surface Location

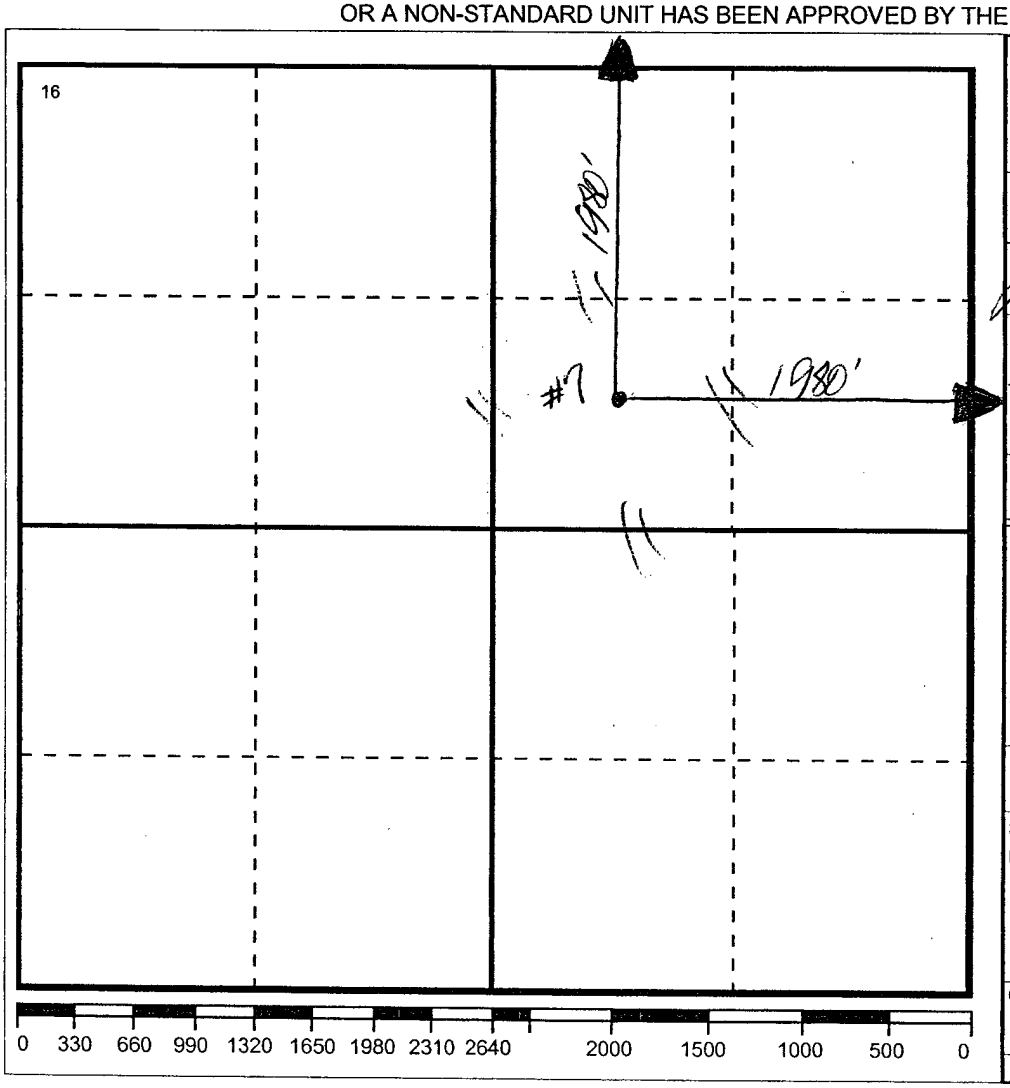
Ul or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
G	28	21-S	37-E		1980'	NORTH	1980'	EAST	LEA

11 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

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

Printed Name: Denise Pinkerton

Positio: Regulatory Specialist

Date: 4/6/2005

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.

DeSoto/Nichols 3/94 ver 1.10