

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 back

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☐ 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 ROAD, MIDLAND, TX 79705		² OGRID Number 4323
⁴ Property Code 2690		³ API Number 30-025-23117
⁵ Property Name W.T. MCCOMACK		⁶ Well No. 17

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
I	32	21-S	37-E		1930'	SOUTH	990'	EAST	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 PENROSE SKELLY GRAYBURG					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Rotary or C.T. ROTARY	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3459'
¹⁶ Multiple No	¹⁷ Proposed Depth 7325'	¹⁸ Formation GRAYBURG	¹⁹ Contractor	²⁰ Spud Date 3/10/2003

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 IN THE GRAYBURG FORMATION, ACIDIZE & FRAC. THE INTENDED PROCEDURE, CURRENT WELLBORE DIAGRAM, AND PROPOSED WELLBORE DIAGRAM 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>PAUL F. KAUFZ</i>	
Printed Name Denise Leake		Title: PETROLEUM ENGINEER	
Title Regulatory Specialist		Approval Date: <i>MAR 17 2003</i> Expiration Date:	
Date 3/7/2003	Telephone 915-687-7375	Conditions of Approval: Attached <input type="checkbox"/>	

W. T. McComack # 17
Penrose Skelly Field
T21S, R37E, Section 32
Job: PB To Grayburg Formation, Acidize, And Frac

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 2% KCl water, if necessary to kill well. POH with rods and pump. Remove WH. Install BOP's and test to 1000 psi. Release pkr. POH with 2 3/8" tbg string.
3. PU and GIH with 4 3/4" MT bit and 2 7/8" work string to 5425'. POH with work string and bit. LD bit.
4. PU and GIH with 5 1/2" tbg-set CIBP to 5400'. Set CIBP at 5400'. Dump 35' cmt on top of CIBP. PUH to 5300'. Reverse circulate well clean from 5300' using 2 % KCl water. POH with 2 7/8" work string. PU and GIH with 5 1/2" tbg-set CIBP to 5250'. Set CIBP at 5250'. Dump 35' cmt on top of CIBP. PUH to 5000'. Reverse circulate well clean from 5000' using 2 % KCl water. POH with 2 7/8" work string. 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 5200' up to 3200'. POH. **Note: Fax log to Robert Martin ((915) 687-7905) 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 4300' 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 3780-87', 3790-94', 3800-05', 3816-18', 3824-27', 3835-38', 3855-60', and 3866-72' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. RD & release electric line unit. **Note: Correlate logs and run flat with Welex Compensated Acoustic Velocity Log conducted 5/20/69.**
6. PU and GIH w/ 5 1/2" PPI pkr (with 10' element spacing) and SCV on 2 7/8" work string to approximately 3700'. Test tbg to 5500 psi while GIH.

7. MI & RU DS Services. Acidize perfs 3780-3872' with 1,600 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
3866-72'	200 gals	½ BPM	3864-74'
3855-60'	200 gals	½ BPM	3852-62'
3835-38'	200 gals	½ BPM	3830-40'
3824-27'	200 gals	½ BPM	3820-30'
3816-18'	200 gals	½ BPM	3810-20'
3800-05'	200 gals	½ BPM	3798-3808'
3790-94'	200 gals	½ BPM	3788-98'
3780-87'	200 gals	½ BPM	3778-88'

Displace acid with 2% KCl 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 3750'. 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 2 7/8" work string and PPI tool.
10. PU and GIH w/ 5 ½" 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 3600'. 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 ½" 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 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 3600' with 1,315 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 4 3/4" MT bit and GIH on 2 7/8" work string to top of sand fill in 5 1/2" csg. Establish circulation using 2% KCl water. LD and cleanout wellbore to 4100'. Reverse circulate well clean from 4100' using 2% KCl water. POH with 2 7/8" work string and bit. LD 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
3/6/2003

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Energy, Minerals and Natural Resources Department

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☐ AMENDED REPORT**OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-23117	² Pool Code 50350	³ Pool Name PENROSE SKELLY GRAYBURG
⁴ Property Code 2690	⁵ Property Name W.T. MCCOMACK	⁶ Well No. 17
⁷ OGRID Number 4323	⁸ Operator Name CHEVRON USA INC	⁹ Elevation 3459'

¹⁰ Surface Location

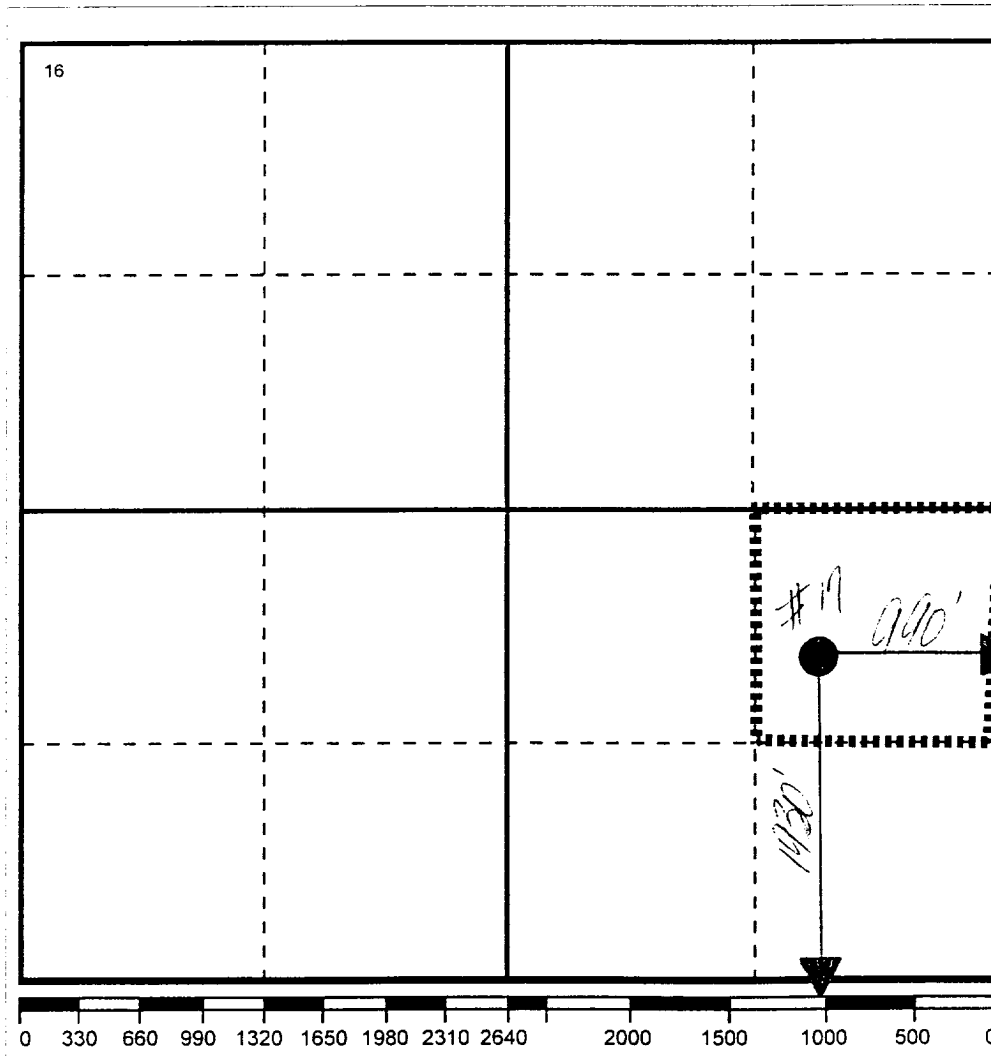
UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
I	32	21-S	37-E		1930'	SOUTH	990'	EAST	LEA

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
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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

Denise Leake

Printed Name

Denise Leake

Position

Regulatory Specialist

Date

3/7/2003

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.

WELL DATA SHEET

FIELD: Blinebry

WELL NAME: W. T. McComack #17

FORMATION: Blinebry

LOC: 1930' FSL & 990' FEL
TOWNSHIP: 21S
RANGE: 37E
LOT: I

SEC: 32
COUNTY: Lea
STATE: NM

GL: 3459'
DF:

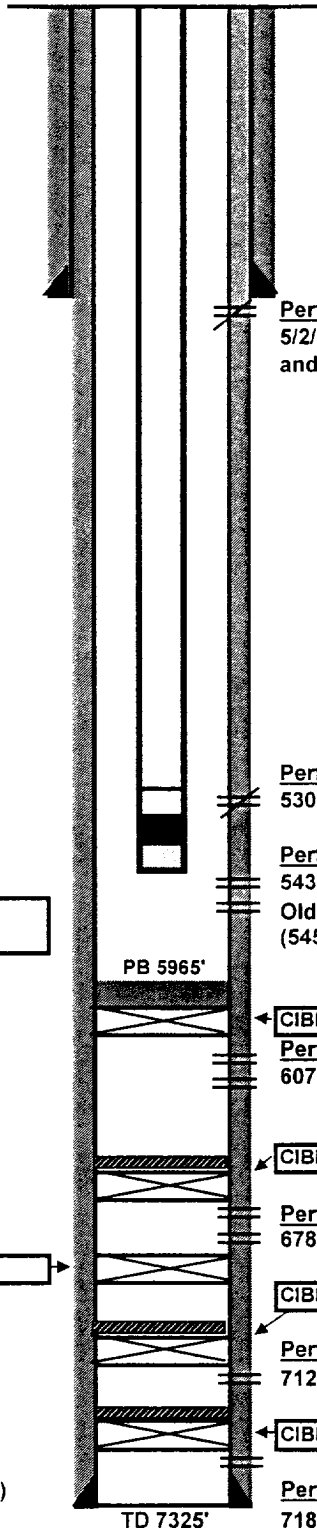
CURRENT STATUS: PRODUCING
API NO: 30-025-23117
REFNO: FG4790
SAP: UCU463200

Surface Casing

8-5/8" 24# K-55
12-1/4" hole to 1286'
Set @ 1283' w/600 sx cmt
Circ cmt to surface

Spud Date: 4/29/69
Date of Completion: 5/19/69
Initial Completion: McCormack Silurian

CURRENT



Perf
5/2/83 - perf'd @ 1333' to circ cmt down csg
and up 5-1/2"-8-5/8" annulus w/550 sx cmt

Perfs Status
5300-10' Paddock - squeezed

Perfs Status
5436-5590' Blinebry gas - open (new perfs)
Old Blinebry Perfs
(5450-5685' Blinebry gas - squeezed)

Tubing landed @ 5401'
2-3/8" tubing (10/10/91)

PB 5965'

CIBP set @ 6000' w/35' cmt on top
Perfs Status
6070-6263' Tubb gas - below CIBP

CIBP set @ 6750' w/8' cmt on top

Perfs Status
6785-6969' below CIBP

Partially drilled CICR @ 7056'

CIBP set @ 7075' w/7' cmt on top

Perfs Status
7125-7145' below CIBP

CIBP set @ 7170' w/8' cmt on top

Production Casing

5-1/2", 15.5# K-55
7-7/8" hole to 7325'
Set @ 7324' w/940 sx cmt
Perf'd @ 1333' to circ cmt
to surf (TOC before @ 2290')

Perfs Status
7184-7257' below CIBP

TD 7325'

ELL DATA SHEET

FIELD: Penrose Skelly WELL NAME: W. T. McComack #17

FORMATION: Grayburg

LOC: 1930' FSL & 990' FEL
TOWNSHIP: 21S
RANGE: 37E
LOT: I

SEC: 32
COUNTY: Lea
STATE: NM

GL: 3459'
DF:

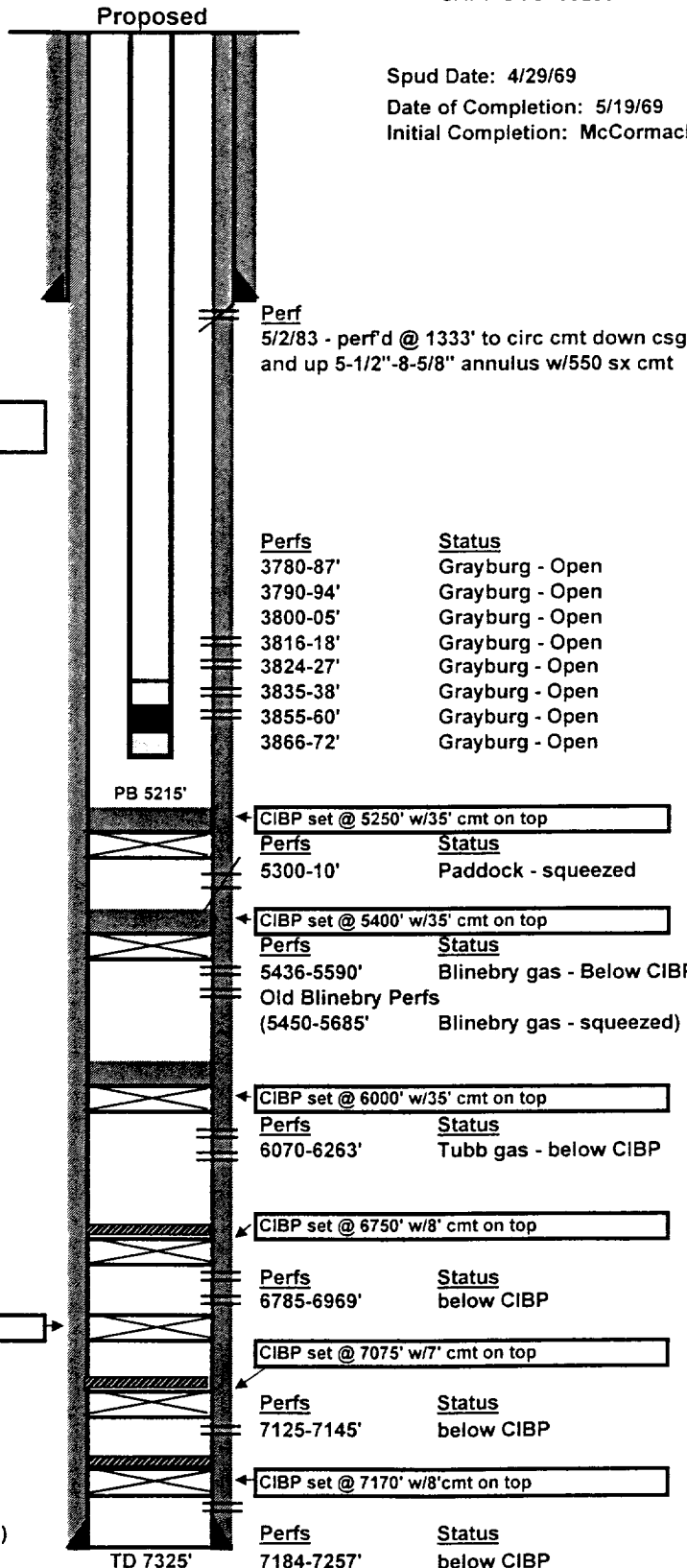
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12-1/4" hole to 1286'
Set @ 1283' w/600 sx cmt
Circ cmt to surface

Spud Date: 4/29/69
Date of Completion: 5/19/69
Initial Completion: McCormack Silurian

Tubing landed @ 3900'
2-7/8" tubing, SN @ 3865'



Partially drilled CIBP @ 7056'

Production Casing

5-1/2", 15.5# K-55
7-7/8" hole to 7325'
Set @ 7324' w/940 sx cmt
Perf'd @ 1333' to circ cmt
to surf (TOC before @ 2290')