DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

Attached

State of New Mexico Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION** 

Form C-101 Revised February 10,199

Instructions on bac

Fee Lease - 5 Copie

Submit to Appropriate District Offic

State Lease - 6 Copie

### 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, New Mexico 87504-2088

P.O. Box 2088,			*	RMIT TO	DRILL, RE-E	NTER,	DEEPEN, PI	LUGBACK, OR			ED REPORT
CHEVRON			Operator Name							<sup>2</sup> OGRII	ID Number 323
15 SMITH R	OAD, MIDL	_AND, TX	79705				<sup>3</sup> APt Number 30-025-27530			B C	
<sup>4</sup> P	roperty Code 2683				H.T. MA	operty Nam ATTERN I				<sup>6</sup> We	ell No. 16
					<sup>7</sup> Surface	e Location	on				
UI or lot no. G	Section 18	Townshi 21S	ip Range 37E	Lot.ldn	Feet From 7 2080'	Γhe No	orth/South Line NORTH	Feet From The 1980'	East/Wes	i	County LEA
			8 Propo	osed Bott	om Hole Loca	ation If	Different From	m Surface			
Ul or lot no.	Section	Townshi	<del>- ,</del> -	Lot.ldn	Feet From		orth/South Line	Feet From The	East/Wes	st Line	County
	P		osed Pool 1 KELLY GRAYBU	JRG		- 1 .		<sup>10</sup> Proposed Poo	) 2		
	Type Code		WellType	Code	13 Rotary or ROTARY		<sup>14</sup> Lea	ase Type Code	<sup>15</sup> Gro	und Level	l Elevation
<sup>16</sup> Multi	iple No		<sup>17</sup> Proposed D 6874'	)epth	<sup>18</sup> Formatio		19 Cc	ontractor	<sup>20</sup> Spud Date 11/10/2004		
	<del></del>	l		21 Propo	osed Casing a		mont Program			Tirva	
SIZE OF	F HOLE	SIZE	OF CASING		HT PER FOOT		ETTING DEPTH	SACKS OF	F CEMENT	T	EST. TOP
NO CHANGE											
						<b>†</b>					
						<b>T</b>			•		
										-	<del></del>
22 Describe the	proposed progr	ram. If this ap	nolication is to DEE	PEN or PLUG F	BACK give the data o	n the presen	of productive zoneand	d proposed new productiv	70ne - 0	- 22	
CHEVRON I	U.S.A. INC. DED PROC	. INTENDS EDURE, C	of any. Use additions TO RECOME CURRENT AN TO YEAR FOR TO THE STATE OF	onal sheets if ne PLETE THE ID PROPOS TOM APP	ecessary. E SUBJECT WEL SED WELLBORE OTOVA! &Y	LL FROM	THE BLINEBR	Y POOL TO THE A	GRAYBURG RAPPROV	G RESEI AL.	RVOIR.
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	X	ns		eake	<u> </u>	Appro	oved By:	DETROY FUL	M FNGIN		
Printed Nam	e 'Der	nise Leake	;			Title:		LIIUMEO			
Title Re	gulatory Spe	ecialist					oval Date:		Expiration D	)ate:	
Date 10/28/2004 Telephone 915-687-7375				Condi	litions HAKprava	a6 2004					

H T Mattern C #16 API #30-025-27530 2080' FNL & 1980' FEL S18, T21S, R37E Penrose Skelly Lea County, New Mexico

#### **PROCEDURE**

### Use 8.6 ppg brine water.

- 1. Displace flowline w/ fresh water. Have Field Specialist close valve at header. Pressure test line according to type. All polypipe (SDR7 and SDR11) will be tested to 100 psi. All steel lines will be tested to 500 psi. If a leak is found, contact Larry Williams for repair/replacement. If tests good, bleed off pressure and open valve at header. Document this process in the morning report.
- 2. MIRU Key PU & Smith RU. Bleed any pressure off well. Use 8.6 ppg brine water to kill well. POOH w/ rods & pump. NDWH NUBOP & EPA equipment. Test BOP. POOH w/ 2-3/8" Tbg.
- 3. RIH w/ 4-3/4" bit on 2-7/8" WS to 5510'. POOH & LD bit.
- **4.** RU WL & RIH w/ 5-1/2" CIBP. Set CIBP @ 5460' & dump 30' cmt on top. POOH. RD WL.
- 5. RIH w/5-1/2" Pkr. Set Pkr @ 5410'. Test CIBP to 1000 psi. Release Pkr & POOH.
- 6. MIRU Baker Atlas WL. Tag cmt & 5430'. Run CBL/CCL log from 2500'-4500'. Correlate to Dresser Atlas Densilog dated 2/01/1982. Check proposed completion interval for good cement. If cement bond does not look adequate discuss squeezing options with engineer.
- 7. Perforate with 3-1/8" slick guns loaded w/ 4 JSPF, 120 degree phasing and 23 gram charges as follows:

Top Depth	Bottom Depth	Total Footage	Total Holes
3718	3720	2	8
3726	3729	3	12
3750	3760	10	40
3786	3798	12	48
3823	3835	12	48
3843	3846	3	12
3857	3860	3	12

3872	3877	5	20
3884	3890	6	24
3904	3908	4	16
3915	3920	5	20
3922	3931	9	36
3939	3942	3	12
3950	3960	10	40
3974	3978	4	16

- 8. RIH w/5-1/2" PPI packer w/ 12' element spacing and SCV. Test 2-7/8" WS to 4500 psi while RIH. Test PPI packer in blank pipe. Mark settings.
- 9. MIRU DS. Acidize perfs 3718'-3978' w/ 3,000 gals 15% NEFE HCl acid at a max rate of ½ BPM & 4000 psi surface pressure as follows:

Perfs	Acid Vol	Max Rate	PPI Setting
3718-3720	200 gals	1/2 bpm	3712-3724
3726-3729	200 gals	1/2 bpm	3723-3735
3750-3760	200 gals	1/2 bpm	3749-3761
3786-3798	200 gals	1/2 bpm	3786-3798
3823-3835	200 gals	1/2 bpm	3823-3835
3843-3846	200 gals	1/2 bpm	3838-3950
3857-3860	200 gals	1/2 bpm	3852-3864
3872-3877	200 gals	1/2 bpm	3868-3880
3884-3890	200 gals	1/2 bpm	3880-3892
3904-3908	200 gals	1/2 bpm	3902-3914
3915-3920	200 gals	1/2 bpm	3909-3921
3922-3931	200 gals	1/2 bpm	3921-3933
3939-3942	200 gals	1/2 bpm	3934-3946
3950-3960	200 gals	1/2 bpm	3949-3961
3974-3978	200 gals	1/2 bpm	3970-3982

Displace acid w/ 8.6# brine to top perf. Record ISIP, 5, and 10 SIP. RD DS. If communication occurs during treatment, attempt to put away stage without exceeding 1,000 psi csg pressure. If stage can not be completed move to next and combine stage volumes.

10. SI well for 2 hrs for acid to spend. Release PPI & PU above top perf. RU swab and swab back load before SION if possible. Record volumes, pressures, & fluid levels. Discuss results with Engineering. If excessive water is produced, selectively swab perf intervals as discussed w/ engineer.

- 11. POOH w/ PPI and LD. RIH w/ 5-1/2" pkr, on/off tool and profile on 3-1/2" WS testing to 7500 psi while RIH. Set packer @ +/- 3600'. Install frac head. Pressure test BS to 700 psi. Hold 500 psi on BS during frac job and observe for communication.
- 12. MIRU DS. Frac well down 3-1/2" tubing at 40 BPM w/ 66,000 gals of YF135, 138,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs resin-coated 16/30 mesh CR4000 proppant. Max treating pressure 7000 psi. Pump job as follows:

Pump 2,000 gals 2% KCl water containing 110 gals Baker SCW-358 Scale Inhibitor Pump 1,000 gal 2% KCl water spacer

Pump 25,000 gals YF135 pad containing 5 GPT J451 Fluid Loss Additive

Pump 5,000 gals YF135 containing 1.5 PPG 16/30 mesh Jordan Sand

Pump 6,000 gals YF135 containing 2.5 PPG 16/30 mesh Jordan Sand

Pump 7,000 gals YF135 containing 3.5 PPG 16/30 mesh Jordan Sand

Pump 8,000 gals YF135 containing 4.5 PPG 16/30 mesh Jordan Sand

Pump 10,000 gals YF135 containing 5.5 PPG 16/30 mesh Jordan Sand

Pump 5,000 gals YF135 containing 6 PPG resin-coated 16/30 mesh CR4000 proppant

Flush to 3718'. **Do not overflush.** SI well and record ISIP, 5, 10, and 15 minute SIP. RD DS. SION. RD DS.

- 13. Open well and bleed off any pressure. RU swab and swab well checking for sand inflow. Discuss results w/ engineer. Release packer and POOH. RIH w/ 4-3/4" bit to 4100'. POOH & LD bit.
- 14. RIH w/ 2-3/8" production tbg & hang off as per ALS recommendation. NDBOP NUWH. RIH w/ rods & pump as per ALS recommendation.
- 15. RD Key PU & Smith RR. Turn well over to production. Contact Lease Operator and inform them that the well is ready for operation.

Engineer - Keith Lopez 432-687-7120 Office 505-390-2227 Cell 303-949-3021 Home Well: H T Mattern C #16

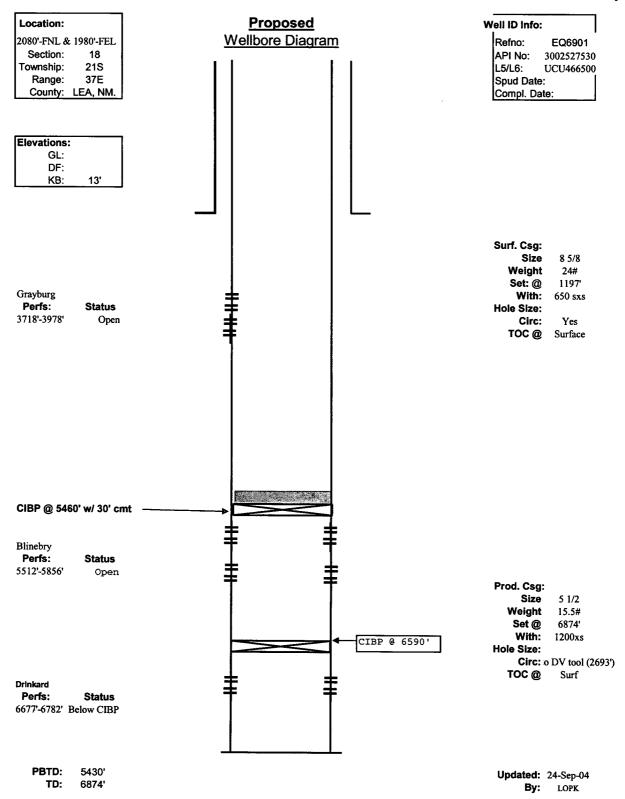
**Current** Location: Well ID Info: Wellbore Diagram 2080'-FNL & 1980'-FEL Refno: EQ6901 Section: 18 API No: 3002527530 21S Township: L5/L6: UCU466500 37E Spud Date: Range: County: LEA, NM. Compl. Date: **Elevations:** GL: DF: KB: 13' Surf. Csg: Size 8 5/8 Weight 24# Set: @ 1250' With: 650 sxs Hole Size: Circ: Yes TOC @ Surface 2-3/8" Tbg EOT 5891' SN 5860' Blinebry Perfs: **Status** 5512'-5856' Open Prod. Csg: Size 5 1/2 Weight 15.5# Set @ 6874' With: 1200xs CIBP @ 6590' Hole Size: Circ: o DV tool (2693') TOC @ Surf Drinkard Perfs: **Status** 6677'-6782' Below CIBP

Updated: 14-Sep-04
By: LOPK

Reservoir: Blinebry

PBTD: 6844' TD: 6874'

Reservoir: Grayburg



## DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980 P.O. Box Drawer DD, Artesia, NM 88211-0719

1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088, Santa Fe, NM 87504-2088

**DISTRICT III** 

**DISTRICT IV** 

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-102 Revised February 10,199 Instructions on bac Submit to Appropriate District Offic State Lease - 4 Copie Fee Lease - 3 Copie

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION DLAT

	WELL LOOK HOW AND ACK	DIOL DEDICATION DAT		
<sup>1</sup> API Number	<sup>2</sup> Pool Code	Pool Name		
30-025-27530	50350	PENROSE SKELLY GRAYBURG		
4 Property Code	<sup>5</sup> Proper	ty Name	<sup>6</sup> Well No.	
2683	H.T. MATT	16		
OGRID Number 4323	•	ntor Name N USA INC	<sup>9</sup> Elevation	

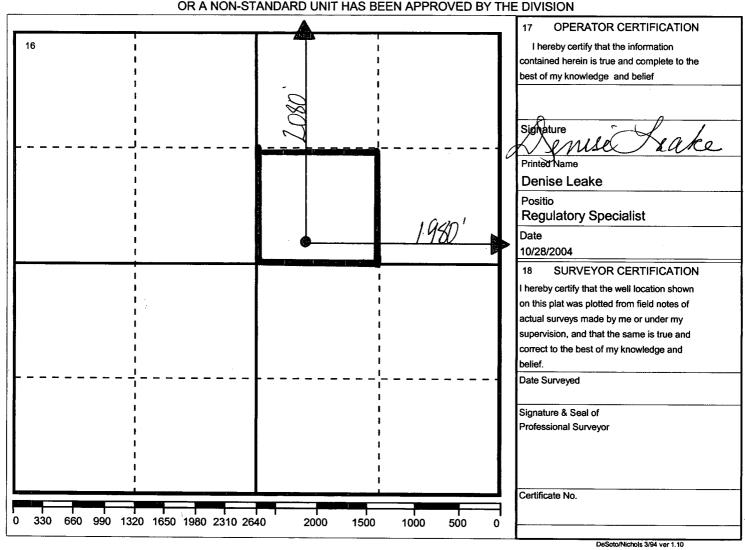
### **Surface Location**

UI or lot no	Section	Township	Range	Lot.ldn	Feet From The	North/South Line	Feet From The	East/West Line	County
G	18	218	37E		2080'	NORTH	1980'	EAST	LEA

### Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.ldn	Feet From	The	North/South Line	Feet From The	East/West Line	County
Dedicated 40	I Acre	Joint or Infill	14	Consolidation	on Code	<sup>15</sup> Ord	der 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



Submit 3 copies to Appropriate District Office		ate of New M nd Natural Re	exico sources Department		· · · · · · · · · · · · · · · · · · ·	m C-103 rised 1-1-89
DISTRICT I	OIL CONSE	RVATIO	ON DIVISION	WELL API NO.	, ,	
P.O. Box 1980, Hobbs, NM 88240		O. Box 2088		WELL APINO.	30-025-27530	
DISTRICT II	Santa En N		87504-2088	5. Indicate Typ		
P.O. Box Drawer DD, Artesia, NM 88210		• • • • • • • • • • • • • • • • • • • •			STATE _	FEE 🗌
DISTRICT III  1000 Rio Brazos Rd., Aztec, NM 87410				6. State Oil / G	as Leasc No.	_
	TICES AND REPORT	S ON WELL	S	A HOME STATE OF	Par Charles	Sur hand Carles
(DO NOT USE THIS FORM FOR PRO	OPOSALS TO DRILL OF	r to deepen	I OR PLUG BACK TO		or Unit Agreement Name	
	RVOIR. USE "APPLICA C-101) FOR SUCH PRO		EKMI	H.T. MATTE	RN NCT-C	
1. Type of Well: OiL GAS WELL WELL						
Name of Operator     CHEVRON L	JSA INC			8. Well No.	16	
3. Address of Operator 15 SMITH R	OAD, MIDLAND, TX 79	705		9. Pool Name (		20
4. Well Location				<u> </u>	NROSE SKELLY GRAYBUR	(6
Unit Letter G:	2080' Feet From	The NORT	H Line and 1980'	Feet From T	he <u>EAST</u> Line	
Section 18	Township 215	R	ange37ENA	/IPM	LEA COUNT	ΓY
	10. Elevation (Show wh	ether DF, RKB,	RT,GR, etc.)			
11. Check A	ppropriate Box to Ir	idicate Nati	ure of Notice, Report	, or Other D	ata	
NOTICE OF INTENTION	ON TO:		St	JBSEQUE	NT REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WORK		ALTERING CASING	
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DRILLING OP	ERATION 🗍	PLUG AND ABANDONME	NT 🗍
PULL OR ALTER CASING			CASING TEST AND CEMEN	MT 10B		
OTHER: PIT INF	ORMATION	<b></b>	OTHER:			□
THE SUBJECT WELL WILL BE RECO				VAL.		
TYPE OR PRINT NAME  (This spece for State Use)	Parke_π	TLE Regu	latory Specialist		DATE11/8/20/ Tokophone No915-	04 687-7375
APPROVED CONDITIONS OF APPROVAL, IF ANY:	1116	PAUL P	SIGNED BY. . KAUTZ M ENGINEER	DATE	NOV 1 6 200	ĥ