DISTRICT ! 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

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

P.O. Box 2088				R PERI	MIT TO E	RILL, RE-E	NTEF	R, DEEPEN, PI	_UGBACK, OR			ED REPORT
CHEVRON	USA INC	1 (Operato	or Name a	and Addres	s	·			2		D Number 23
15 SMITH R	ROAD, MID	LAND, TX	79705	i						3	API Nu 30-025	
⁴ P	Property Code 2701							ame VEN			6 Well No. 8	
		·				7 Surface	e Loca	ation				
UI or lot no. P	Section 34	Townsh 21-S	• 1	lange 37-E	Lot.ldn	Feet From 900'	The I	North/South Line SOUTH	Feet From The 660'	East/West EAST		County LEA
			8	Propos	sed Botto	m Hole Loc	ation I	f Different Fror	n Surface			
UI or lot no.	Section	Townsh	ip F	Range	Lot.ldn	Feet From		North/South Line	Feet From The	East/West	Line	County
	F	9 Prop PENROSE S	osed Po		kG				¹⁰ Proposed Poo	l 2		
Ì	Type Code		¹² W	/ellType Co O	ode	Rotary or ROTARY	C.T.	¹⁴ Lea	se Type Code P	¹⁵ Ground Level Elevation 3394' GL		
¹⁶ Multi	ple ło			oposed De 7610'	pth	18 Formatio		19 Cc	ontractor	²⁰ Spud Date 10/15/2003		
				2	Propos	ed Casing:	and C	ement Progran	<u> </u>			
SIZE OF	HOLE	SIZE	OF CA	SING		T PER FOOT		SETTING DEPTH	SACKS OF	CEMENT		EST. TOP
NO CHANGE							<u> </u>					
							_					
				:		%.						
22 Describe the	proposed prog	ram. If this ap	plication	is to DEEPE	N or PLUG BA	CK give the data or	n the pres	ent productive zoneand	proposed new productiv	e zone.	. 10 -	
CHEVRON I GRAYBURG	blowout prevei U.S.A. INTI FORMAT	ntion program, ENDS TO ION, ACID	, if any. U RECO! ZE AN	MPLETE D FRAC.	al sheets if nec	essary. ECT WELL FR MS IS ATTACI	ROM TH HED FO ermit	DR YOUR APPRO Expires 1 Y e Unless Dr	VAL.	E PENROSE	- 4004 1 2003	03 202722
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 Surse Lake							Approved By:					
Printed Nam	e J _{De}	nise Leake	•				Title: PETROLEUM ENGINEER					
Title Re	gulatory Sp	ecialist					App	proval Date:		Expiration Da	ite:	
Date 10	0/8/2003			Telepho	ne 9	15-687-7375	Con	nditions of Approva	ii: 0 2000			

PROPOSED WELL DATA SHEET

Field: Location:	Penrose-Skelly 900' FSL & 660'	FEL	Well Na Sec:	-	rk Owen #8 Township:	218	Lease Type: Range:	Fee 37E
County:	Lea St:	New Mexico	•		API : <u>30-02</u>	5-26053	Cost Center:	UCU490400
Current St		cing-Rods		Test Date				
	oducing Format lucing Formation		ayburg anite Wa	ob.	*			
IIIIIIIII PIOU	lucing Formation	ii(s). <u>Gi</u>	ariile vva	511	······································			
Surface Cs							KB:	
Size:	8 5/8"						DF:	
Wt.: Set @:	<u>24#</u> 1137'						GL: Spud Date:	
Sxs cmt:	550						Compl. Date:	
Circ:	Yes		Ĭċ,				•	
TOC:	Surface							
Hole Size:	12 1/4"							
		DV Tool @ 2894						
Production	ı Csa	DV 1001 @ 2694	441		Sarie			
Size:	5 1/2"							
Wt.:	15.5#							
Set @:	7610'		=					
Sxs Cmt:	1915	20541 20021	= . 4.5.					
Circ: TOC:	Yes Surface	3651'-3803' \	7					
Hole Size:	7 7/8"	. (<u>.</u>					
COTD:				><	CIBP (@ 5000'		
PBTD:	5000'							
TD:	7610'							
			Ç.,					
			3.5		(*) (#)			
			J					
					mbr.			
Vatas	0.400!							
Yates Queen	<u>2490'</u> 3299'					ment		
Grayburg	3657'	Perfs (2 spf)		PRO LINGUELLA S		@ 7150'		
San Andres	3867'	7185'-7298'				9		
Glorieta	5027'		. <u>.</u>					
Blinebry	5498'	7362'-7582'						
Tubb	5934'							
Drinkard Abo	6261' 6524'							
Gr. Wash	7180							
Granite	7270'							
Remarks:				****				

-								
						Prepared by:	MRV	
						Date:	10/2/2003	
						Updated by:		

CURRENT WELL DATA SHEET

Field: Location:	Wantz 900' FSL 8	& 660' FEL	Well Nam Sec:		rk Owen #8 Township:	218	Lease Type: Range:	Fee 37E
County:	Lea	St: New Mexico			API: 30-02	25-26053	Cost Center:	UCU522400
Current St		Producing-Rods	Anchor T		<u>:</u>			
	oducing Fo lucing Forn		anite Wash anite Wash		••••			
		<u></u>	dinto 11doi	•				
Surface Cs	g.			Ī			KB:	3405'
Size:	8 5/8"						DF:	
Wt.:	24#	梅	5-1				GL:	3394'
Set @: Sxs cmt:	1137' 550						Spud Date: Compl. Date:	
Circ:	Yes	<u> </u>					Compi. Date.	10/00/10/0
TOC:	Surface							
Hole Size:	12 1/4"							
					Intial	Completion:		
	_	DV Tool @ 2894					6000 gal 15% N	
Production Size:					6		7,000 gal gelle	d kerosene
Wt.:	5 1/2" 15.5#				;	& 00,500	# 20/40 sand	
Set @:	7610'						N.	
Sxs Cmt:	1915			ŀ				
Circ:	Yes							
TOC:	Surface							
Hole Size:	7 7/8"							
					元.			
					5.2			
COTD:	75001							
PBTD:	7592'							
TD:	7610'							
				i				
						111050 111050	~ 1 .	
						010	010	
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						1211030		
						7110	WHO	
Yates	2490'				uit.	111050	V	
Queen	3299'	Perfs (2 spf)				7/110-		
Grayburg	3657'	74051 7000		ı				
San Andres Glorieta	3867' 5027'	7185'-7298	2					
Blinebry	5498'	7362'-7582	Ξ					
Tubb	5934'	7002 7002	13°		in.			
Drinkard	6261'			×	10			
Abo	6524'							
Gr. Wash	7180							
Granite	7270'			hadig.				
Remarks:								
		· · · · · · · · · · · · · · · · · · ·						
						Prepared by:	MRV	
						Date:	10/2/2003	
						Updated by:		

Mark Owen #8 PB to Grayburg Formation, Acidize, & Frac

API No.: 30-025-26053

Section: 34 Township: 21S Range: 37E

Surface Location: 900' FSL & 660' FEL

Status: Producing - Rods

WBS No.: UWPNM-R3xxx-EXP

UWPNM-R3xxx-CAP

\$xxxxxx

\$ xxxxx

Total \$xxxxxx

PROCEDURE

- 1. Displace flowline w/ fresh water. Have the Field Specialist close valve at header. Pressure line according to type. AGU, EMSU, and EMSUB buried fiberglass lines will be tested to 300 psi. 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 test is good, bleed off pressure and open valve at header. Document this process in the morning report.
- 2. MIRU rig. Bleed pressure from well, if any. Use 2% KCl water to kill well if needed. POOH w/ rods and pump. ND wellhead. NU BOPE and EPA Equipment. Test BOPE. POOH w/ 2-3/8" tubing.
- 3. RIH w/ 43/4" bit to 7250'. POOH w/ workstring and bit. LD bit.
- 4. RIH w/ 5½" CIBP and set @ 7150'. Dump 35' cement on top of CIBP. Pressure test casing and CIBP to 500 psi. POOH w/ workstring.
- 5. RIH w/ 5½" CIBP and set @ 5000'. Pressure test casing and CIBP to 500 psi. POOH w/ workstring.
- 6. MIRU Baker Atlas. Run GR/CBL/CCL log from 5000' up to 2400'. Tie into Gamma-Collar Perforation Record (Welex) dated 10/27/78. Check logs for good cement bonding from approximately 4200' up to 3300'. If bond does not appear to be good across the proposed completion interval, contact Engineering to discuss cement squeezing options.
- 7. Perforate the following with 3-1/8" slick guns loaded with 4 JSPF, 120 degree charges: (cont'd on next page)

Top Depth	Bottom Depth	Total Footage	# Holes
3651	3657	6	24
3670	3676	6	24
3700	3706	6	24
3720	3724	4	16
3729	3735	6	24
3746	3752	6	24
3756	3762	6	24
3773	3777	4	16
3784	3788	4	16
3799	3803	4	16

- 8. RIH w/ 5½" PPI packer (12' element spacing) and SCV. Test tubing to 5500 psi while RIH.
- 9. MIRU DS services. Acidize perfs 3651'-3803' with 2000 gals 15% NEFE HCl acid at a maximum rate shown below and maximum surface pressure of **4000** psi. Pump job as follows:

Interval	Acid Vol	Max Rate	PPI Setting
3651-57	200 gal	½ bpm	3648-60
3670-76	200 gal	½ bpm	3667-79
3700-06	200 gal	½ bpm	3697-3709
3720-24	200 gal	½ bpm	3714-26
3729-35	200 gal	½ bpm	3726-38
3746-52	200 gal	½ bpm	3742-54
3756-62	200 gal	½ bpm	3754-66
3773-77	200 gal	½ bpm	3769-81
3784-88	200 gal	½ bpm	3780-92
3799-3803	200 gal	½ bpm	3795-3807

- 10. Displace acid w/ 8.6 ppg brine. Record ISIP, 5 and 10 minute SIP's. RD DS services. If communication occurs during treatment, attempt to finish stage without exceeding 1000 psi casing pressure. If stage cannot be finished, move PPI to next setting & combine treatment volumes.
- 11. Release PPI and POOH above top perf. Swab all intervals in well to recover load. Record recovered volumes, pressures, & fluid levels. Discuss results w/ Engineering. If excessive water is produced, selectively swab perfs as per discussion w/ Engineering.
- 12. POOH w/ tubing and PPI packer. RIH w/ 5½" packer, on/off tool w/ 2.25" "F" profile, and 3½" workstring, testing to 7500 psi. Set packer @ +/- 3600'. Install frac head.

13. MIRU DS services and tracer company. RU chemical company truck and tie into DS line. Pump scale inhibitor (2 drums of SCW358 mixed in 2000 gal 2% KCl). Flush w/ 1000 gal 2% KCl spacer. Frac well at 40 bpm w/ 66000 gals of YF135 (containing 25000 gal pad traced w/ Antimony-xxx), 138000 lbs 16/30 mesh Jordan sand (traced w/ Iridium-192), and 30000 lbs resin coated 16/30 CR4000 proppant (traced w/ Scandium-46). Max treating pressure 7500 psi. Pump job as follows:

Pump 25000 gals YF135 pad containing 5 GPT J451 Fluid Loss Additive (Sb) Pump 5000 gals YF135 containing 1.5 PPG 16/30 mesh Jordan sand (Ir) Pump 6000 gals YF135 containing 2.5 PPG 16/30 mesh Jordan sand (Ir) Pump 7000 gals YF135 containing 3.5 PPG 16/30 mesh Jordan sand (Ir) Pump 8000 gals YF135 containing 4.5 PPG 16/30 mesh Jordan sand (Ir) Pump 10000 gals YF135 containing 5.5 PPG 16/30 mesh Jordan sand (Ir) Pump 5000 gals YF135 containing 6 PPG resin-coated 16/30 CR4000 (Sc)

Flush w/1300 gals WF135. **Do not overflush.** Shut well in. Record ISIP, 5, 10, & 15 minute SI tubing pressures. RDMO DS Services & tracer company. Leave well SI overnight.

- 14. Open well. RIH and swab well. Check for sand inflow. **Discuss swab results with Engineering.** Release packer and POH w/ workstring. RIH w/ 4¾" bit and cleanout any sand to 4000' using 8.6 ppg brine. POOH w/ bit.
- 15. MIRU Baker Atlas. Run after frac Prism log. RDMO Baker Atlas.
- 16. RIH w/ production tubing. ND BOPE. NU wellhead. RIH w/ rods & pump. (Art. Lift Rep to design lift system.)
- 17. RDMO pulling unit. Turn well over to production. Report rates, pressures, and/or fluid levels.

Engineer: Michael R. Villalva

Office: 432-687-7250 Cell: 432-349-4592

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

DISTRICT II
P.O. Box Drawer DD, Artesia, NM 88211-0719

P.O. Box Drawer DD, Artesia, NM 88211-0719

<u>DISTRICT III</u>

1000 Rio Brazos Rd., Aztec, NM 87410 <u>DISTRICT IV</u> P.O. Box 2088, Santa Fe, NM 87504-2088

Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION

State of New Mexico

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 PLAT

¹ API Number 30-025-26053	Pool Code 50350	PENROSE SKELLY GRAYBURG		
Property Code 2701	·	erty Name 6 Well No. RK OWEN 8		
OGRID Number 4323	1 · ·	rator Name Selevation ON USA INC 3394' GL		

Surface Location

UI or lot no	Section	Township	Range	Lot.ldn	Feet From The	North/South Line	Feet From The	East/West Line	County
Р	34	21-S	37-E		900'	SOUTH	660'	EAST	LEA

Bottom Hole Location If Different From Surface

Ul or lot no.	Section	Township	Range	Lot.ldn	Feet From	The	North/South Line	Feet From The	East/West Line	County
12 Dedicated	d Acre	13 Joint or Infill No	14	Consolidation	on Code	¹⁵ Ore	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

