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

DISTRICT II

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

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

Form C-101 Revised February 10,199 Instructions on bac Submit to Appropriate District Offic

DISTRICT III	Dd Ad-	NIM 07440			P.0	D. Box	2088			State Le	ease - 6 Copie
1000 Rio Brazo	os Ra., Aztec	;, NIVI 8/410		Sa	anta Fe, No	ew M	exico 87504-208	18		Fee Le	ease - 5 Copie
P.O. Box 2088	, Santa Fe, N	IM 87504-20	38							AMENDE	ED REPORT
	APP	LICATIO	N FOR PER	MIT TO D	RILL, RE-	ENTE	ER, DEEPEN, PI	LUGBACK, OR	ADD	A ZONE	
		1 (perator Name	and Address	3					² OGRII	D Number
CHEVRON	USA INC									43	23
15 SMITH R	D MIDLA	ND TX 79	705							3 API Nu	mher
10 01111111	15, 1152 1	15, 17, 10								30-025	
4 P	roperty Code)			⁵ P	roperty	Name			⁸ W∈	ell No.
Troporty code							RISON 'B'		11		
					⁷ Surfac	e Lo	cation	•			
UI or lot no.	Section	Townshi	Range	Lot.ldn	Feet From	The	North/South Line	Feet From The	East/	West Line	County
С	9	23-S	37-E		560		N	2100		W L	
			8 Propo	sed Bottor	m Hole Lo	cation	If Different From	m Surface			
UI or lot no.	Section	Townshi	p Range	Lot.ldn	Feet From	The	North/South Line	Feet From The	East/	West Line	County
	1	9 Prop	osed Pool 1					¹⁰ Proposed Poo	l 2		
	LANGLIE		VERS QUEEN-0	GRAYBURG				,			
					13						
¹¹ Work	Type Code		12 WellType C	ode	Rotary o	r C.T.	¹⁴ Lea	se Type Code	15	Ground Level	Elevation
<u> </u>	P		0					Р		GL-331	
¹⁶ Multi	•		¹⁷ Proposed D	epth	¹⁸ Formation		¹⁹ Co	ontractor		²⁰ Spud	Date
	40		5400'		GRAYBU	RG					
				²¹ Propos	ed Casing	and	Cement Progran	n			

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
				1	

22 Describe the proposed program. If this application is to Describe the blowout prevention program, if any. Use additional sheets in the Describe the blowout prevention program, if any. Use additional sheets in the CHEVRON U.S.A. INC. INTENDS TO RECOMPLETE THE SUBJECT WELL IN THE INTENDED FOR THIS PLUGBACK. A STEEL FRAC TANK WILL BE UTILIZED.

THE INTENDED PROCEDURE, AND PROPOSED WELLBORE DIAGRAM ARE ATTACHED FOR YOUR APPROVAL.

\$ 320212223242526 Received Hobbs

Place of the Properties of the Properties 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 Denuse Punkliton	Approved By:				
Printed Name Denise Pinkerton	Title: Geologist				
Title Regulatory Specialist	Approval Date: Expiration Date: 3/12/06				
Date 2/20/2007 Telephone 432-687-7375	Conditions of Approval: Attached MAR 1 2 2007				

B.F. Harrison B #11 Langlie Mattix T23S, R37E, Section 9

Job: PB To Grayburg Formation, Acidize, And Frac

Procedure:

- 1. This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 2/09/2007. Verify what is in the hole with the well file in the Eunice Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.
- 2. Displace flowline with fresh water. Have field specialist close valve at header. Pressure line according to the type of line. 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.
- 3. MI & RU workover unit. Bleed pressure from well, if any. Pump down csg with 8.6 PPG cut brine water, if necessary to kill well. POH LD rods and pump. Remove WH. Install BOP's and test as required. POH and LD 2-7/8" tbg.
- 4. PU and GIH with 4 3/4" MT bit, 4000' of 2 7/8" Class "A" production tbg, and WS as needed to 5100'. Reverse circulate well clean from 5100' using 8.6 PPG cut brine water, if possible. POH with tbg string and bit. LD bit.
- 5. MI & RU WL. GIH w/ CIBP to 5075'. Set 5 ½" CIBP at 5075'. Pressure test casing and CIBP to 500 psi. POH. LD setting tool.
- 6. GIH and conduct GR/CBL/CCL log from 5075' up to 2200'. Run log with 500 psi on casing. POH. Inspect logs for good cement bond from approximately 4100' up to 3400'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding.
- 7. GIH with 3 1/8" slick casing guns and perforate the following intervals with 4 JSPF at 120 degree phasing using 23 gram premium charges:

Top Perf	Bottom Perf	Net Feet	Total Holes
3932	3940	8	32
3920	3927	7	28
3895	3900	5	20
3880	3888	8	32
3852	3858	6	24
3841	3848	7	28
3832	3838	6	24

3818	3824	6	24
3805	3809	4	16
3791	3798	7	28
3776	3780	4	16
3763	3770	7	28
3752	3760	8	32
3740	3745	5	20
3730	3737	7	28

- 8. POH. GIH and dump bail 35' of cement on top of CIBP at 5075'. POH RD & release WL. Note: Use Halliburton Depth Control Log dated 11/22/93 for depth correction.
- 9. RIH w/ 5-1/2" PPI packer w/ SCV and 10' element spacing. Test PPI packer in blank pipe. Mark Settings.
- 10. MI & RU DS Services. Acidize perfs 3730-3940' with 3,000 gal 15% NEFE HCl acid* at a maximum rate of ¹/₂ BPM and a maximum surface pressure of 4000 psi as follows:

Perfs	Acid Volume	Max Rate	PPI Setting
3932-3940	200	1/2 bpm	3931-3941
3920-3927	200	1/2 bpm	3919-3929
3895-3900	200	1/2 bpm	3894-3904
3880-3888	200	1/2 bpm	3879-3889
3852-3858	200	1/2 bpm	3850-3860
3841-3848	200	1/2 bpm	3840-3850
3832-3838	200	1/2 bpm	3829-3839
3818-3824	200	1/2 bpm	3815-3825
3805-3809	200	1/2 bpm	3803-3813
3791-3798	200	1/2 bpm	3790-3800
3776-3780	200	1/2 bpm	3774-3784
3763-3770	200	1/2 bpm	3762-3772
3752-3760	200	1/2 bpm	3751-3761
3740-3745	200	1/2 bpm	3739-3749
3730-3737	200	1/2 bpm	3729-3739

Displace acid with 8.6 PPG cut brine water -- do not over displace. 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 ½ 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 500 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals.

* Acid system to contain:

1 GPT A264 8 GPT L63 2 PPT A179 Corrosion Inhibitor Iron Control Agents Iron Control Aid

- 11. Release PPI & PU to approximately 3675'. Set pkr @ 3675'. Fish SCV. Swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered volumes, pressures, and/or swabbing fluid levels. Note: Selectively swab perfs as directed by engineering if excessive water is produced.
- 12. Open well. Release PPI pkr. POH w/ tbg and PPI pkr. LD PPI tool.
- 13. PU and GIH w/5-1/2" Arrow-Set 10k pkr & On-Off tool w/ 2.25" "F" profile and 117 jts of 3-1/2" EUE 8R L-80 work string, testing to 8500 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 aid in observing communication.
- 14. MI & RU DS Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). Frac well down 3 ½" tubing at 40 BPM with 88,000 gals of YF125, 176,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs resin-coated 16/30 mesh CR1630 proppant. Observe a maximum surface treating pressure of 8500 psi. Tag frac with 2 radioactive isotopes (1 in regular sand 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 at 6 BPM

Pump 1,000 gals 2% KCL water spacer at 20 BPM

Pump 14,000 gals YF125 pad containing 5 GPT J451 Fluid Loss Additive at 40 BPM

Pump 14,000 gals YF125 containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 FL Additive

Pump 12,000 gals YF125 containing 1.5 PPG 16/30 mesh Jordan Sand

Pump 12,000 gals YF125 containing 2.5 PPG 16/30 mesh Jordan Sand

Pump 14,000 gals YF125 containing 3.5 PPG 16/30 mesh Jordan Sand

Pump 16,000 gals YF125 containing 4.5 PPG 16/30 mesh Jordan Sand

Pump 6,000 gals YF125 containing 5 PPG resin-coated 16/30 mesh CR1630 proppant.

Flush to 3600' with 1,315 gal WF125. <u>Do not overflush.</u> Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services and Tracer-Tech Services. <u>Leave well SI overnight.</u>

- 15. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 ½" work string, on-off tool, and pkr.
- 16. PU and GIH with 4 3/4" MT bit on 2 7/8" Class "A" tubing to approximately 4200'. If fill is tagged above 4200', cleanout to 4200' using 8.6# PPG cut brine water using air unit if necessary. POH with 2 7/8" tbg and bit. LD bit.
- 17. PU & GIH with 5 ½" pkr on 2 7/8" tbg string to 3600'. Set pkr at 3600'. Open well. GIH and swab well until there is no sand inflow. Swab well for at least 3 hours before logging. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct after-

frac PRISM GR/Temp/CCL from 4200' to 3300'. POH. RD & release electric line unit. Note: Correlate logs and run flat with Baker Atlas GR/CBL/CCL Log conducted in Step # 67.

- 18. Release pkr. POH 2-7/8" tubing and pkr.
- 19. RIH w/ 2-7/8" production tubing and hang off per ALS recommendation. NDBOP. NUWH. RIH w/ rods and pump per ALS.
- 20. RD Key PU & RU. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

Engineer – Richard Jenkins 432-687-7120 Office 432-631-3281 Cell

Well: B.F. Harrison B #11

Location: 560' FNL & 2100' FWL Section: 9 23S Township: Range: 37E County: Lea, NM.

Elevations: GL: 3312' DF: KB: 3326'

TOC @ 400'

Reservoir: Grayburg

Well ID Info:

Refno: API No: L5/L6: Spud Date: Compl. Date:

QU2349 30-025-32107 UCU728800 10/19/1993

10/27/1993

Surface Csg:

Set: @ Hole Size: Circ:

TOC By:

8-5/8" 24# 1180' w/ 450 sks 12-1/4"

Yes Circulation TOC: Surface

Perfs

Perfs

Status Grayburg - Open

3730'-3940'

By:

Proposed

CIBP @ 5075 w/ 35' cmt

COTD: 5040' PBTD: TD: 5400'

Updated: 2/8/2007

5040'

rjdg

Status

5123'-5136' Glorieta - Open Below CIBP

5204'-5212' Upper Paddock - Open Below CIBP

Prod Csg: Set: @ Hole Size:

5-1/2" 15.5# 5400' w/ 1220 sks 7-7/8"

Circ: No TOC By: Temperature Survey

TOC: 400'



DISTRICT I

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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-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 30-025-32107	Pool Code 37240	³ Pool Name LANGLIE MATTIX;7 RIVERS QUEEN-GRAYBURG
4 Property Code	⁵ Property N B.F. HARR	
⁷ OGRID Number 4323	⁸ Operator CHEVRON	Lievation

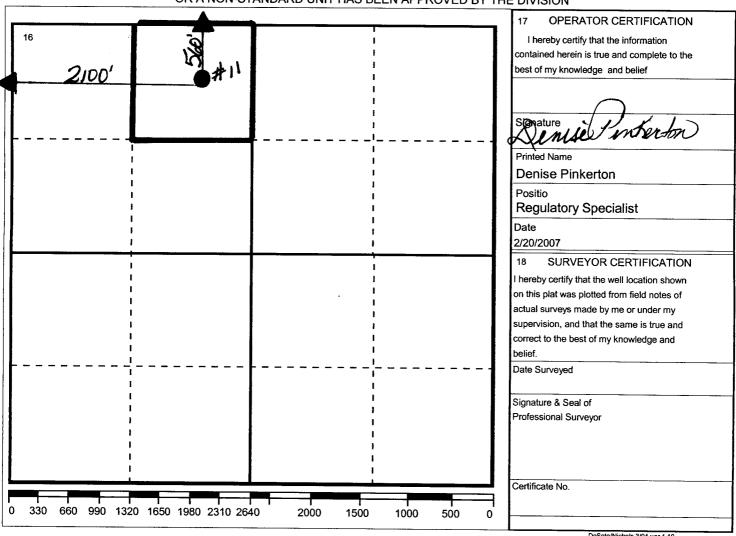
Surface Location

UI or lot no	Section	Township	Range	Lot.ldn	Feet From The	North/South Line	Feet From The	East/West Line	County
С	9	23-S	37-E		560	N	2100	w	LEA

Bottom Hole Location If Different From Surface

-													
	UI or lot no.	Section	Township	Range	Lot.ldn	Feet From	n The	North/South Line	Feet From The	East/West Line	County		
	Dedicated	I Acre	¹³ Joint or Infill No	1	4 Consolidatio	n 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



DeSoto/Nichols 3/94 ver 1 10