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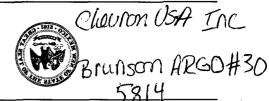
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NSL

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THE CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE ADDILICATIONS FOR EXCEPTIONS TO DIVISION DUILES AND RECLINATIONS

1 1		WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	noing	
Applic	[DHC-Down [PC-Po			
[1]	[A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD One Only for [B] or [C]		
	[B]	Commingling - Storage - Measurement	20	· ·
	[C] [D]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR Other: Specify	2008 MAR 2	R E C
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Which Apply, or 🖾 Does Not Apply Working, Royalty or Overriding Royalty Interest Owners	0 PM 2	EVE
	[B] [C]	 Offset Operators, Leaseholders or Surface Owner Application is One Which Requires Published Legal Notice 	04	D
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office		
	[E] [F]	 For all of the above, Proof of Notification or Publication is Attached, and/or, Waivers are Attached 		

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE [3] **OF APPLICATION INDICATED ABOVE.**

[4] CERTIFICATION: I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: State	ment must be completed by an	individual with man	hagerial and/or supervisory capacity.	
Casey R. Mobley	_ Mby	Molly	Project Manager / Geologist	03/10/2008
or Type Name	Signature	δ	Title	Date

Casey.Mobley@chevron.com e-mail Address



Casey R. Mobley Project Manager / Geologist

RECEIVED 2008 MAR 20 PM 2 04

North America Upstream Midcontinent Business Unit 11111 S. Wilcrest, Rm S1037 Houston, Texas 77099 Tel (281) 561-4830 Fax (281) 561-3576 Casey.Mobley@chevron.com

March 10, 2008

Request for Administrative Approval of Unorthodox Oil Well Location

Mr. Mark E. Fesmire New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Dear Mr. Fesmire:

Chevron respectfully requests administrative approval of an unorthodox oil well location for the following well:

Brunson Argo #30

1980' FNL & 120' FEL, SE/4 NE/4 of Section 9, T22S, R37E, Unit Letter H Lea County, New Mexico

The proposed well will be an infill producer in the Penrose Skelly, Grayburg Pool [Pool Code 50350], which is an oil pool spaced on 40 acres. This well is a continuation of our 5 year infill drilling in the same Pool. Chevron's technical analysis of the reservoir still supports the contention that typical Grayburg wells cannot drain 40 acres.

The SE/4 NW/4 of Section 9 will be simultaneously dedicated in the Penrose Skelly, Grayburg Pool to the proposed well and to the So. Penrose Skelly Unit #163 well pursuant to statewide Rule 104.B(1). The So. Penrose Skelly Unit #163 well was drilled in 1939 and was completed as a Penrose Skelly, Grayburg producer.

This application is based on geological and engineering analysis. The analysis and justification for this request is attached as Exhibit 1, along with other supporting documentation. There are four wells that have produced the Grayburg formation in the NW/4 of Section 10. The proposed well will be located in the approximate western center point of those wells. Based on drainage calculations, Chevron believes that drilling the infill well will recover reserves that would not be recovered by existing Grayburg producers.

A land plat highlighting the proposed well's location is attached as Exhibit 2. The NE/4 of Section 9 is covered by two fee leases and has common royalty and working interest ownership in depths between 3600 feet and 3900 feet. For that reason and the proposed location of the infill well, there are no adversely affected interest owners and no one has been notified of this application.

March 10, 2008 Page 2

If you have any questions concerning this application or need additional information, please contact me by phone at (281) 561-4830 or by email at <u>Casey.Mobley@chevron.com</u>. If I am not available, you can also reach Meilin Du by phone at (281) 561-3564 or by email at <u>meilin.du@chevron.com</u>. Thank you for consideration of this matter.

Sincerely,

ble Casey R. Mobley

Project Manager / Geologist

Attachments

cc: NMOCD District 1 – Hobbs, NM Casey R. Mobley Meilin Du Ed Van Reet Well File

NOTIFICATION LIST

Application of Chevron U.S.A. Inc. for Administrative Approval of an Unorthodox Oil Well Location:

Brunson Argo #30 1980' FNL & 1200' FEL, SE/4 NE/4 of Section 9, T22S, R37E, Unit Letter H Lea County, New Mexico

Offset Operators, Working Interest Owners, NE/4 Section 9:

1. Chevron U.S.A. Inc. 11111 S. Wilcrest Houston, TX 77099 Operator/100% WI

EXHIBIT 1

ENGINEERING AND GEOLOGICAL JUSTIFICATION

Application of Chevron U.S.A. Inc. for Administrative Approval of an Unorthodox Oil Well Location:

Brunson Argo #30

1980' FNL & 1200' FEL, SE/4 NE/4 of Section 9, T22S, R37E, Unit Letter H Lea County, New Mexico

<u>PRIMARY OBJECTIVE</u>: GRAYBURG

SUPPORTING DATA:

- 1. Chevron U.S.A. Inc. (Chevron) is the operator of the proposed Brunson Argo #30 well (Exhibit 3). The proposed total depth is 4300' in the top of the San Andres formation.
- 2. The completion will be in the Penrose Skelly, Grayburg Oil Pool and the proposed location encroaches toward the following wells (Exhibit 4). The Brunson Argo #1 well is listed as a Grayburg producer on the basis of NMOCD well file documents that show initial production from this well was from the Grayburg formation; efforts to locate reliable cumulative production numbers, however, have not been successful.

Operator	API #	Well Name	Location	Formation	Cum Prod		Current Prod		Status
Operator		wen hame		Formation	BO	MCF	BOPD	MCFPD	Status
			9B 22S						Inactive
Mobil	30025101370000	Brunson Argo #1	37E	Grayburg	N/A	N/A	-	-	Oil
		So. Penrose Skelly	9A 22S						Inactive
Gulf	30025101380000	Unit #144	37E	Grayburg	90862	195871	-	-	Oil
		So. Penrose Skelly	9H 22S						Inactive
Gulf	30025101390000	Unit #163	37E	Grayburg	52235	170533	-	-	Oil
			9G 22S						
BEC	30025101400000	Brunson Argo A #8	37E	Grayburg	38181	52547	0 .	21	Oil

- 3. The proposed Brunson Argo #30 unorthodox Grayburg location is based primarily on drainage considerations:
 - a. Grayburg Reservoir

The Grayburg is a series of alternating subtidal and supratidal dolomites with the subtidal rock having porosity and hydrocarbons while the supratidal rock is tight. The Grayburg depositional environments varied rapidly so that many porous and tight intervals are not continuous from well to well on 40-acre spacing. Tight dolomite and/or anhydrite intervals within the Grayburg create vertical and horizontal flow barriers between different zones of porosity. Additionally, average porosity of the Grayburg is less than 10%, and the average permeability is less than 1 millidarcy. For all of these reasons, Grayburg wells are not usually capable of draining a 40-acre proration unit.

The reservoir was also analyzed by mapping the Hydrocarbon Pore Volume (HCPV) (Exhibit 5). HCPV is the product of feet of net pay (h) times average porosity (phi) times oil saturation (S_o). The attached map is the arithmetic product of grids interpreted from those values. The values were obtained as follows:

- 1. Net pay was read from either modern neutron-density logs or estimated from a map developed from gross pay times net-togross ratio (Exhibit 4).
- 2. Average porosity was calculated from modern well logs using a minimum of 6% crossplot porosity and a maximum of 20%.
- 3. Oil saturation was calculated from a fractional flow curve using representative water cut values.

	hup and reserves of the offsetting wens.											
Operator	Well Name	API #	Location	Formation	Drainage	EUR						
					Acres	MBO	MMCF					
	So. Penrose Skelly Unit		9A 22S									
Gulf	#144	30025101380000	37E	Grayburg	9	91	196					
	So. Penrose Skelly Unit		9H 22S				•					
Gulf	#163	30025101390000	37E	Grayburg	5	52	171					
			9G 22S									
BEC	Brunson Argo A #8	30025101400000	37E	Grayburg	4	39	65					

The following table provides drainage areas calculated from the HCPV map and reserves of the offsetting wells.

As seen above, the average drainage area of the offsetting locations is only 6 acres, and additional reserves can be recovered by drilling the proposed infill well at an approximate equidistant location from the existing offsetting producers. Reserves for the proposed location were calculated using the calculated average HCPV, an average drainage area of 6 acres, and a 15% recovery factor. The results are as follows:

Operator	Well	Location	HCPV	Drainage	EUR		
Operator	W CII	Location		Acres	MBO	MMCF	
Chevron	Brunson Argo #30	9-H	11.1	6	61	145	

4. The NE/4 of Section 9 is covered by two fee leases and has common royalty and working interest ownership in depths between 3600 feet and 3900 feet. For that reason and the proposed location of the infill well, there are no adversely affected interest owners and no one has been notified of this application.

- 5. The proposed Brunson Argo #30 will share a 40-acre proration unit and will be simultaneously dedicated with the So. Penrose Skelly Unit #163 as a Penrose Skelly, Grayburg producer in Section 9, Unit Letter H pursuant to statewide Rule 104.B(1).
- 6. Approval of this application will allow for the recovery of oil and gas reserves which would not otherwise be recovered.

Exhibit 2

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Brunson Arg 1980 FNL & Section 9, T2	vron USA Inc. o #30 (proposed) 1200 FEL, Unit H 22S-R37E New Mexico
	Brunson Argo Lease
122	40 Acre Proration Unit
Scale: 1"=20	000' Approx.

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NN 08210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

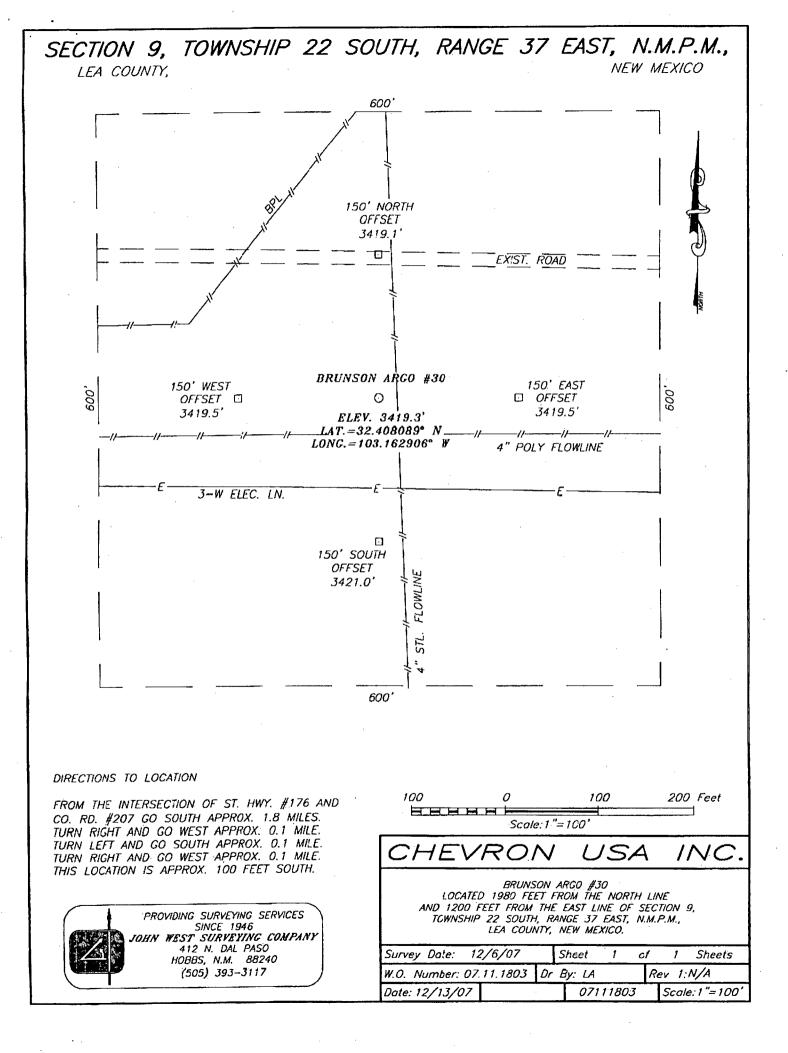
State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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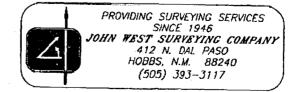


VICINITY MAP

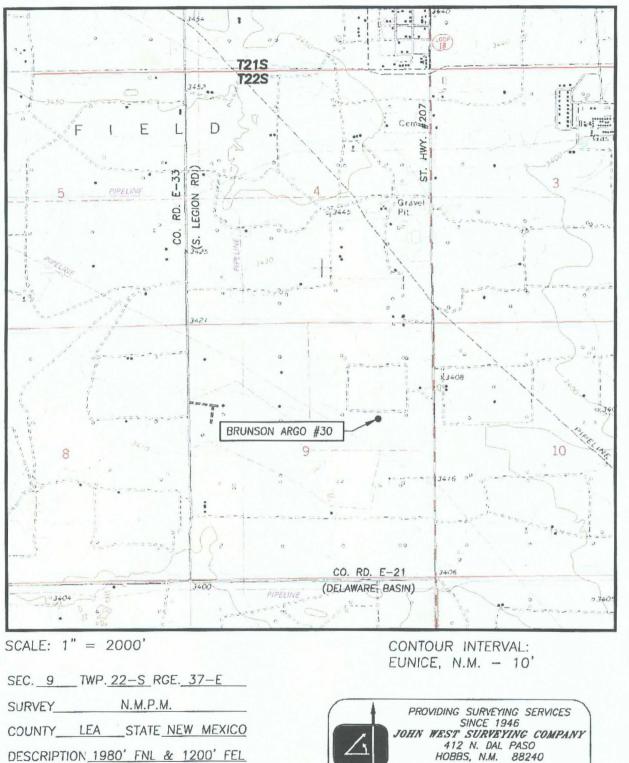
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SCALE: 1'' = 2 MILES

SEC. <u>9</u> TWP. <u>22-S</u> RGE. <u>37-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> STATE <u>NEW MEXICO</u> DESCRIPTION <u>1980' FNL & 1200' FEL</u> ELEVATION <u>3419'</u> OPERATOR <u>CHEVRON USA INC.</u> LEASE <u>BRUNSON ARGO</u>



LOCATION VERIFICATION MAP

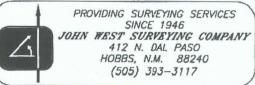


ELEVATION 3419'

OPERATOR _____CHEVRON USA INC.

LEASE_____BRUNSON ARGO

U.S.G.S. TOPOGRAPHIC MAP EUNICE, N.M.



¹ <u>District ?</u> 1625 N. French Dr., Hobbs, NM 88240

<u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec, NM 87410

<u>District IV</u> 1220 South St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised June 10, 2003

OIL CONSERVATION DIVISION Su

1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to Annuaniate District Office

Exhibit 3.1

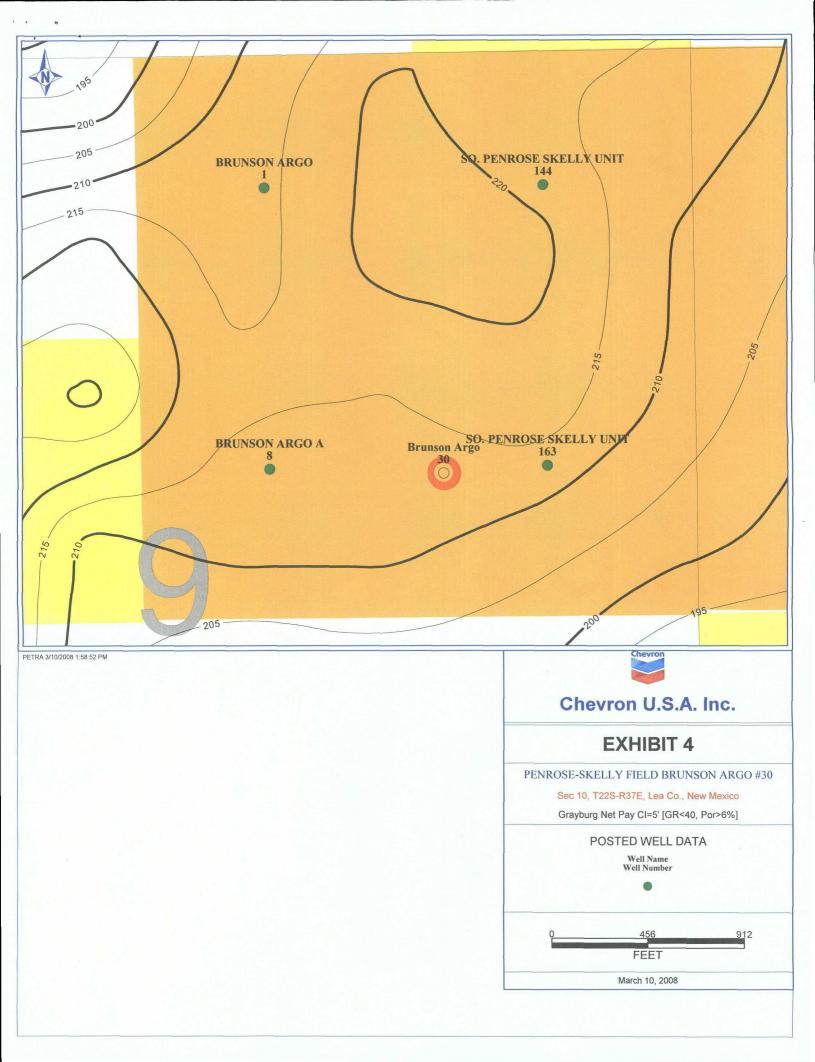
□ AMENDED REPORT

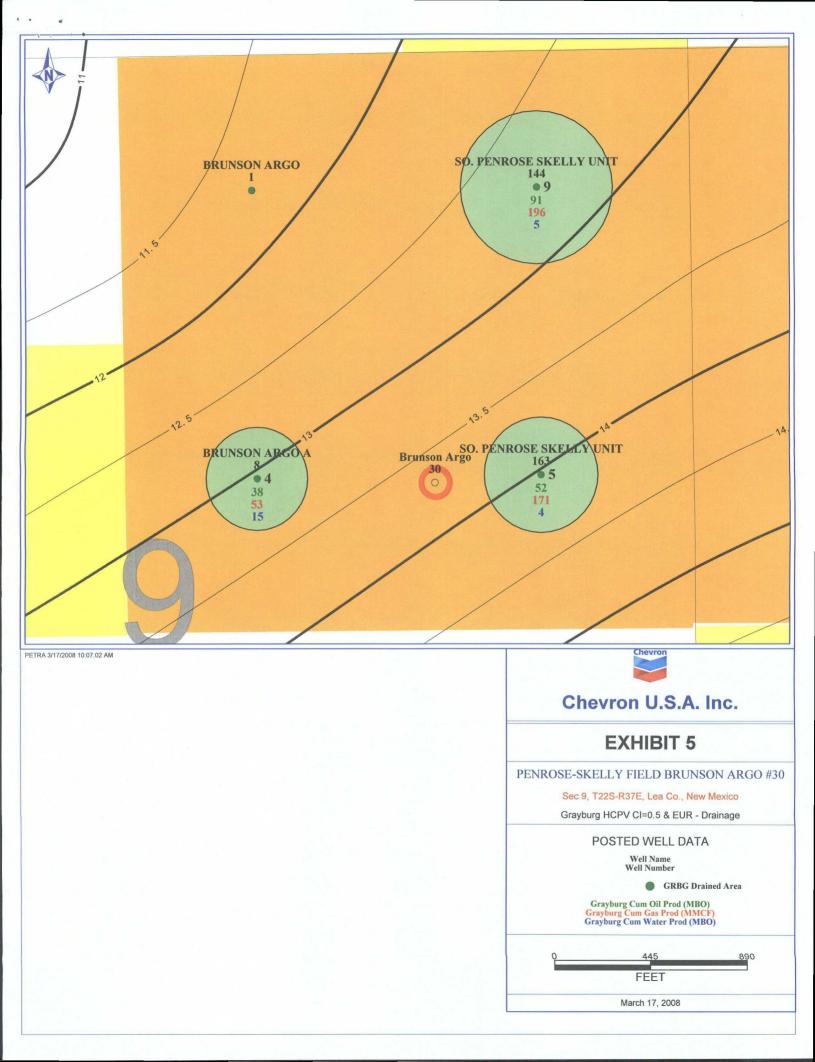
WELL LOCATION AND ACREAGE DEDICATION PLAT

	¹ API Number	r		² Pool Code 50350		³ Pool Name Penrose Skelly; Grayburg					
⁴ Property	Code ⁵ Property Name Brunson Argo ⁶ Well N 30										
⁷ OGRID									⁹ Elevation 3419'		
¹⁰ Surface Location											
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West li	ne County		
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¹² Dedicated Acr	¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order 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

16		Brunson Argo Lease	1	17
		Bruncent Age Louce		OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is
State of the State			1980'	true and complete to the best of my knowledge and belief.
				Λ
				m. Illa
			163	My Mully
				Signature Casey R. Mobley
			30 1200'	Printed Name Geologist
			40-acre	Title
			proration unit	March 10, 2008
				SURVEYOR CERTIFICATION
	35043210			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 belief.
				Signature and Seal of Professional Surveyor:
				Certificate Number





Well File Search - Select API Number to View

Please select the API Number you wish to view from the list below by clicking the radio button next to the API Number. Then click the "Continue" button to see the thumbnails for the API you selected. The search results are broken out by groups of 25 on each page. Switching pages can be done by clicking the "Next 25" or "Previous 25" links.

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	Well Name & Number: BRUNSON ARGO No. 024		
	Operator: CHEVRO	N MIDCONTINENT, L.P.	

3 Records Found

Displaying Screen 1 of 1

Continue Go Back

Brooks, David K., EMNRD

From:Brooks, David K., EMNRDSent:Wednesday, April 23, 2008 2:27 PMTo:'Mobley, Casey R.'Subject:Brunson Argo #30

Dear Mr. Mobley

In this application you indicate that no notice to offsets is required because the entire quarter section has identical ownership in depths between 3600 fee and 3900 feet. However, I did not find any depth information regarding the proposed well in the application other than that the proposed total depth is 4300.

Please advise the planned depths of perforations.

Separately, I note that the application states the proposed location as 1980 FNL and 120 FEL of 9-22S-37E. However, the attached plats show the location at 1980 FNL and 1200 FEL. All of the information in the application (except the one statement of the location) is consistent with the location being 1200 FEL. Accordingly, I assume that the 120 FEL is a typo.

I have now received your response regarding the Brunson Argo #28, and am inclined to assume that the same depth information applies to Section 9. Please confirm.

Thanks

David K. Brooks 505-476-3450 Legal Examiner

Brooks, David K., EMNRD

From: Mobley, Casey R. [Casey.Mobley@chevron.com]

Sent: Thursday, April 24, 2008 5:29 AM

To: Brooks, David K., EMNRD

Cc: Baca, James (JMEB)

Subject: RE: Brunson Argo #30

David,

I can confirm that the depth information for the Brunson Argo #30 is the same as that for the Brunson Argo #28. As for the footage call error, I can confirm that 1200 FEL is the correct distance. Please accept our apologies for these oversights.

Please advise if you have any further questions for us. Thanks again,

Casey

Casey R. Mobley

Geologist

New Mexico Asset Development MidContinent SBU Chevron North American Exploration and Production 11111 S. Wilcrest Dr., S1037 Houston, TX 77099 (281) 561-4830

From: Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us] Sent: Wednesday, April 23, 2008 4:27 PM To: Mobley, Casey R. Subject: Brunson Argo #30

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I have now received your response regarding the Brunson Argo #28, and am inclined to assume that the same depth information applies to Section 9. Please confirm.

Thanks

David K. Brooks 505-476-3450 Legal Examiner

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