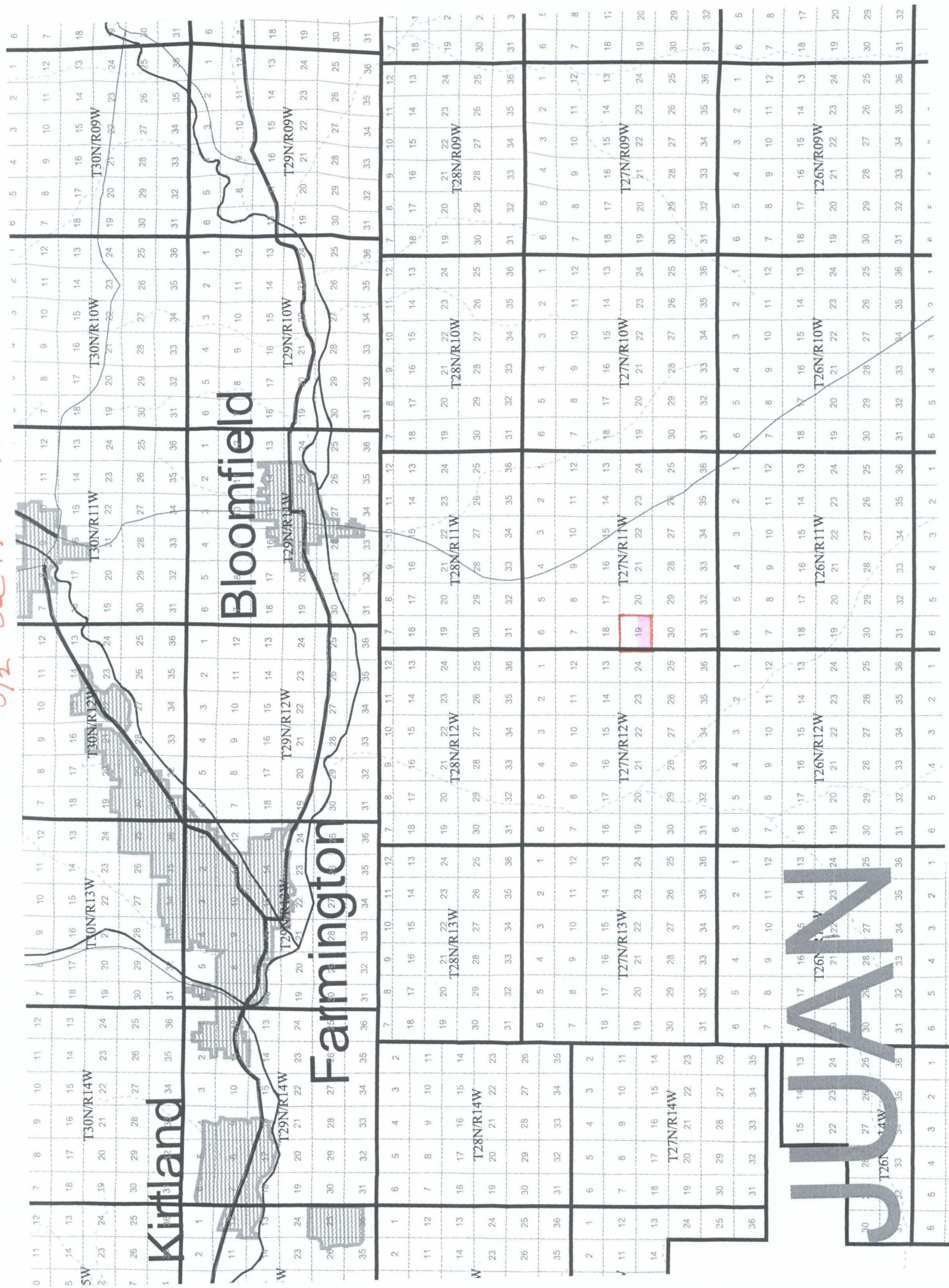


5/2 See 19 27N 11W



6/19/08 DATE IN	SUSPENSE	Brooks ENGINEER	6/20/08 LOGGED IN	NSL TYPE	PKVR0817230680 APP NO.
--------------------	----------	--------------------	----------------------	-------------	---------------------------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



Four Star Oil & Gas Co
Navajo AA#3

ADMINISTRATIVE APPLICATION CHECKLIST

San Juan Co.

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATION
WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

30-045-34083

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

Federal
NSL-5870

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD
 Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
 [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply
 [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☒ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached
- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

RECEIVED
2008 JUN 19 PM 1 33

[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: Statement must be completed by an individual with managerial and/or supervisory capacity.

Alan W. Bohling Print or Type Name	<u>Alan W. Bohling</u> Signature	Regulatory Agent Title	06/13/2008 Date
		<u>ABohling@chevron.com</u> e-mail Address	



Arthur R. Boehm
Senior Land
Representative

Mid Continent SBU
Chevron U.S.A. Inc.
PO BOX 36366
Houston, TX 77236
Tel: 281-561-4880
Fax: 281-561-3576
aboehm@chevron.com

June 13, 2008

New Mexico Energy, Minerals and Natural
Resources Department
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Filing of Non-Standard Location Application
Four Star Oil & Gas Company
Navajo AA#3 well, API 30-045-34083
Surface Location 965' FWL and 1740' FSL
Bottom hole Location 2275' FWL and 577' FSL
Section 19, Township 27 North, Range 11 West NMPM
San Juan County, New Mexico

Gentlemen:

Enclosed here with you will find Four Star Oil & Gas Company's Administrative Application for approval of a Non-Standard Location pursuant to 19.15.3.104.D et seq. NMAC. Four Star Oil and Gas Company (FSOG) filed for and was granted a permit to drill the Navajo AA#3 well as a directional well. At the time of filing, both the surface and bottom hole locations were approved as a standard location. ?

During the drilling of the directional leg of the well, there appears to have been a miscommunication between FSOG and our directional contractors which resulted in the usage of two different survey markers for the directional drill. This confusion resulted in the well being drilled to a non-standard location for the Dakota completion. The well was stimulated and completed prior to discovery of the error. The well has not produced from the competed Dakota zone pending NMOCD approval of the Non-Standard Location application.

The bottom hole is located 577' North of the South Section line of Section 19. The Dakota producing interval is between 647' and 618' North of the South Line of Section 19.

By copies of letters attached hereto, FSOG has notified the offset operators in Section 30, T27N, R11W of our request for a Non-Standard Location to produce the Dakota. We have sent letters, by Ceritified-Return Receipt Request on 06/11/2008, to ConocoPhillips as Operator of the Mudge-Federal #1 in the East Half (E/2) of Section 30 and XTO Energy Inc. and the Bureau of Land Management as the operator and the Lessor of the Dakota in the West Half (W/2) of Section 30. We will also advise the operators by Certified-Return Receipt Request of our filing

API 30-045-34083

104 D

date of this application (June 13, 2008) with the NMOCD so that they will have their 20 days Notice period.

copies?

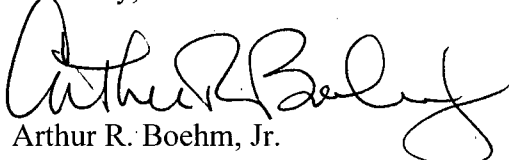
Our Application for a Non-Standard Location consists of the following material:

1. Geologic Survey Report Dated June 2, 2008 for the Navajo AA#3 wellbore #1, San Juan Basin NM, NAD 27;
2. Geologic Survey Report Dated June 2, 2008 for the Navajo AA#3 well bore #1 San Juan Basin NM, NAD 83;
3. Revised Form C-102 showing the Approved Surface location and revised Non-Standard bottom hole and the Dakota producing interval location;
4. Revised Form C-102 Plat showing the Dakota Producing Units in the South Half (S/2) of Section 19 with the correct Navajo AA#3 bottom hole location and the Mudge-Federal Unit #1 East Half of Section 30 Dakota Unit and the Oneda-Federal #1 West Half Unit of Section 30 Dakota Unit. The Oneda-Federal #1 well was abandoned in 1984.

FSOG proposes that the current approved Dakota Spacing Unit for the South Half (S/2) of Section 19 remain as the producing unit for the Navajo AA#2 well upon the approval by the NMOCD of our Non-Standard Location Application (for Navajo AA #3-Infill).

Should you have any question regarding the technical material filed herewith, please contact Mr. Jim Micikas at 281-561-4860 or for non-technical information you can contact the undersigned at 281-561-4880.

Sincerely,


Arthur R. Boehm, Jr.
Senior Land Representative

CC: Jim Micikas
Alan Bohling
NMOCD Farmington Office
BLM Farmington Office
ConocoPhillips Company
XTO Energy Inc.

Both are Basin Dakota Wells

*Mudge Federal No. 1 - 30-045-06300
unit A CSJ repair 06 Drilled in 1961*

*30-045-13051 Oneda-Federal No 1 - Basin Dakota well
unit K drilled in 61
Fed Lease 3030-01 74 hole in 1/2" CSJ sp.
R & A's Sept 24, 1984 -*

~~*30-045-13051*~~
~~*30-045-20664*~~
~~*W/2 Sec 8 T6N 11W*~~

*Dakota Formation
Basin Dakota Pool*



Arthur R. Boehm
Senior Land
Representative

Mid Continent SBU
Chevron U.S.A. Inc.
PO BOX 36366
Houston, TX 77236
Tel: 281-561-4880
Fax: 281-561-3576
aboehm@chevron.com

June 16, 2008

Mr. Alan Alexander
ConocoPhillips Company
3401 E. 30th Street
Farmington, NM 87402-8807

RE: Four Star Oil and Gas Company Navajo AA #3 well
Section 19, T27N/R11W NMPM
Surface Location: 965' FWL; 1740' FSL
Bottom Hole Location: 2275' FWL; 660' FSL
Request for ConocoPhillips Company Waiver for a Non-Standard Location
San Juan County New Mexico

Dear Mr. Alexander:

Four Star Oil & Gas Company has received approval for the drilling of the Navajo AA #3 well at the surface location referenced above. The well was directionally drilled and completed at a Non-Standard location with the perforations closest to the Southern section line at 618' North.

ConocoPhillips is the operator of the Mudge Federal #1 well (API 30-045-06300) located in the NE/4NE/4 (Surface 990' FNL and 990' FEL) of Section 30, T27N/R11W. This Dakota well is in a 320 acre spacing unit comprised as the East Half of Section 30.

Four Star Oil & Gas Company provides you with this notice of preparation and filing for a Non-Standard location exception for the Navajo AA #3 well and asks for ConocoPhillips Company to grant a waiver of its rights to object to the operation and production of this well at the bottom hole location and completed producing interval referenced above. You will have Twenty (20) Days from the date hereof to file any comments with the State of New Mexico Energy, Minerals and Natural Resources Department.

Should you have any questions, please feel free to contact me at 281-561-4880 or by written or email correspondence as indicated on the letterhead above.

Sincerely,

Arthur R. Boehm, Jr.
Senior Land Representative



Arthur R. Boehm
Senior Land
Representative

Mid Continent SBU
Chevron U.S.A. Inc.
PO BOX 36366
Houston, TX 77236
Tel: 281-561-4880
Fax: 281-561-3576
aboehm@chevron.com

June 16, 2008

Mr. Chris Spencer
XTO Energy Inc.
810 Houston Street, Suite 2000
Fort Worth, TX 76102-6298

United States Department of Interior
Bureau of Land Management
1225 La Plata Highway, Suite A
Farmington, NM 87401

RE: Four Star Oil and Gas Company Navajo AA #3 well
Section 19, T27N/R11W NMPM
Surface Location: 965' FWL; 1740' FSL
Bottom Hole Location: 2275' FWL; 660' FSL
Request for Waiver for a Non-Standard Location
San Juan County New Mexico

Dear Gentlemen:

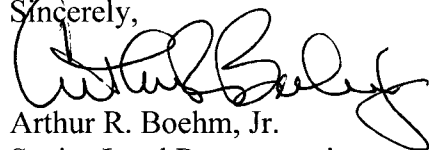
This letter requesting your waiver for our filing for a Non-Standard Location for the Navajo AA #3 well is being sent to both of you since our title work does not indicate whether or not XTO has the Dakota rights in the West Half of Section 30, T27N/R11W.

The Navajo AA #3 well was bottomed at a location 577' from the South Section Line of Section 19. Before the mistake was discovered, the well was frac'd and perforated in the Dakota formation. The bottom perforation of the Dakota is located at approximately 618' from the South Line

Four Star Oil & Gas Company provides you with this notice of preparation and filing for a Non-Standard location exception for the Navajo AA #3 well. You will have Twenty (20) days from the date hereof to file any comments with the New Mexico Energy, Minerals and Natural Resources Department

Should you have any questions, please feel free to contact me at 281-561-4880 or by written or email correspondence as indicated on the letterhead above.

Sincerely,


Arthur R. Boehm, Jr.
Senior Land Representative

*Look @ a
9 Section*

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-045-34083		² Pool Code 71599	³ Pool Name Basin-Dakota
⁴ Property Code 305237	⁵ Property Name Navajo AA		⁶ Well Number 3
⁷ OGRID No. 131994	⁸ Operator Name Four Star Oil & Gas Company		⁹ Elevation 6092'

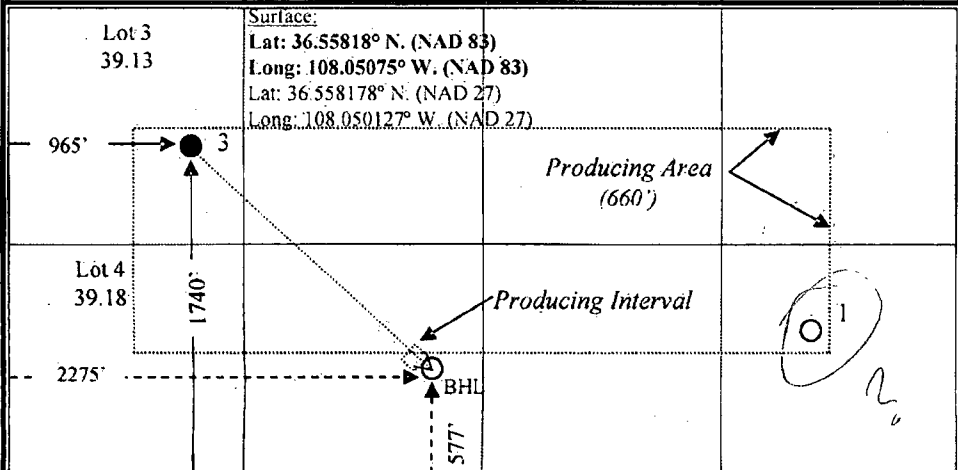
¹⁰ Surface Location

UL or lot no. Lot 3	Section 19	Township 27-N	Range 11-W	Lot Idn	Feet from the 1740	North/South line South	Feet from the 965	East/West line West	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. Lot 3	Section 19	Township 27-N	Range 11-W	Lot Idn	Feet from the 577	North/South line South	Feet from the 2275	East/West line West	County San Juan
¹² Dedicated Acres 318.3 (S/2)		¹³ Joint or Infill Y	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 Lot 1 39.04 Lot 2 39.09	<i>"This Plat As Drilled"</i>		¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  May 21, 2008 Signature Date Alan W. Bohling -- Regulatory Agent Printed Name
Lot 3 39.13 Lot 4 39.18	Surface: Lat: 36.55818° N. (NAD 83) Long: 108.05075° W. (NAD 83) Lat: 36.558178° N. (NAD 27) Long: 108.050127° W. (NAD 27)		¹⁸ SURVEYOR CERTIFICATION <i>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.</i> June 2, 2006 Date of Survey Signature and Seal of Professional Surveyor: Roy A. Rush 14831 Certificate Number

French Dr., Hobbs, NM 88240

Grand Avenue, Artesia, NM 88210

Brazos Rd., Aztec, NM 87410

220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34083		² Pool Code 71599	³ Pool Name Basin-Dakota
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¹⁰ Surface Location

UL or lot no. Lot 3	Section 19	Township 27-N	Range 11-W	Lot Idn	Feet from the 1740	North/South line South	Feet from the 965	East/West line West	County San Juan
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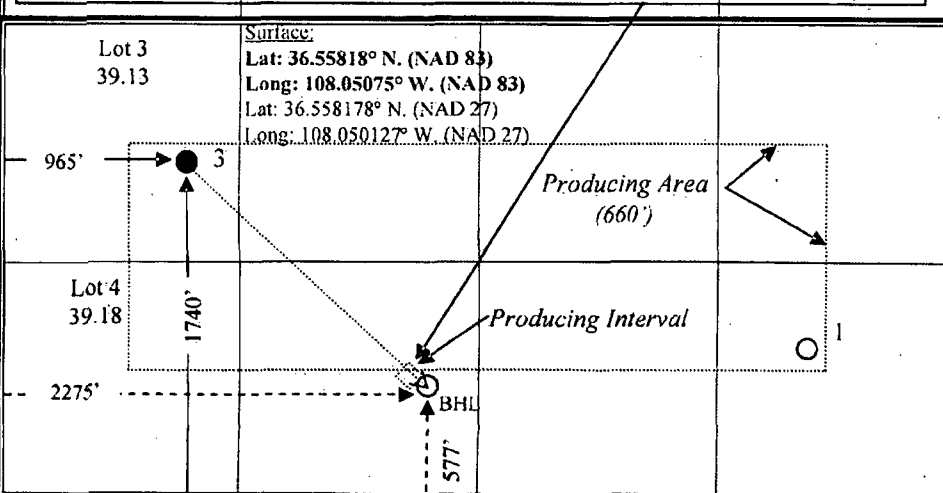
¹¹ Bottom Hole Location If Different From Surface

UL or lot no. Lot 3	Section 19	Township 27-N	Range 11-W	Lot Idn	Feet from the 577	North/South line South	Feet from the 2275	East/West line West	County San Juan
¹² Dedicated Acres 318.3 (S/2)	¹³ Joint or Infill Y	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 Lot 1 39.04	<i>"This Plat As Drilled"</i>
Lot 2 39.09	
Producing Interval Locations: BHL Top Pay 647' FSL & 2215' FWL Lat 36° 33' 18.641 N Long 108° 2' 45.113 W NAD 27 BHL Base Pay 618' FSL & 2241' FWL Lat 36° 33' 18.343 N Long 108° 2' 45.785 W NAD 27 SI Pending NSL Application Approval	

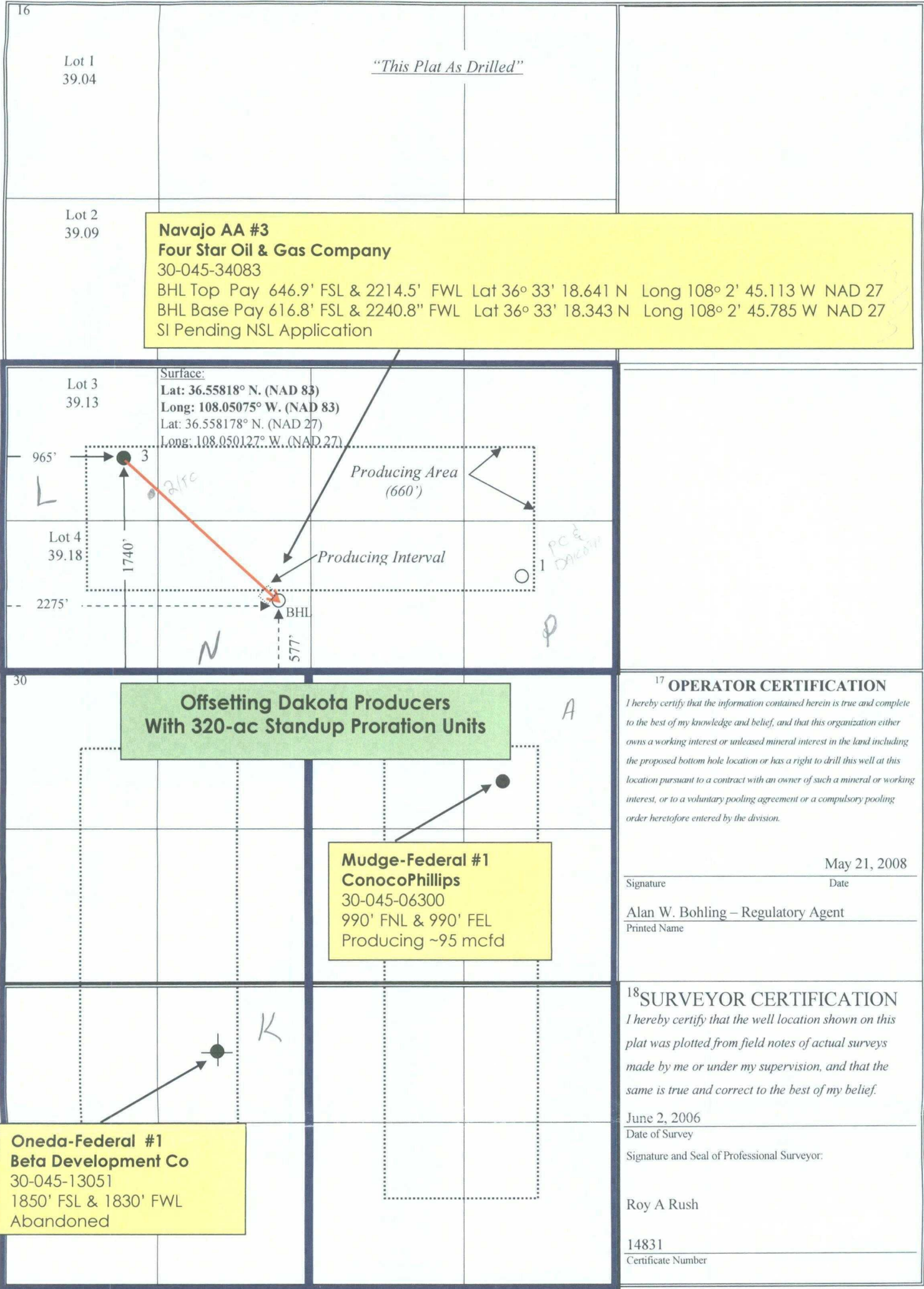
¹⁷ OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.	
<i>Alan W. Bohling</i>	May 21, 2008
Signature	Date
Alan W. Bohling - Regulatory Agent	
Printed Name	



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 belief.	
June 2, 2006	
Date of Survey	
Signature and Seal of Professional Surveyor:	
Roy A Rush	
14831	
Certificate Number	

Navajo AA #3 - Non-Standard Location Plat

Section 19 T27N R11W
API 30-045-34083
San Juan County, New Mexico



CHEVRON MCBU

SAN JUAN BASIN ,NM, NAD 27

NAVAJO

NAVAJO AA #3

Wellbore #1

Survey: MWD Survey

Survey Report - Geographic

02 June, 2008

Scientific Drilling

Survey Report - Geographic

Company:	CHEVRON MCBU	Local Co-ordinate Reference:	Well NAVAJO AA #3
Project:	SAN JUAN BASIN, NM, NAD 27	TVD Reference:	WELL @ 6108.0ft (Original Well Elev)
Site:	NAVAJO	MD Reference:	WELL @ 6108.0ft (Original Well Elev)
Well:	NAVAJO AA #3	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL	Database:	EDM 2004.16 Database

Project:	SAN JUAN BASIN, NM, NAD 27, NEW MEXICO WEST, SOUTH SAN JUAN		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site:	NAVAJO		
Site Position:		Northing:	2,022,495.80 ft
From:	Map	Easting:	436,328.80 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 33' 29.423 N
		Longitude:	108° 3' 0.454 W
		Grid Convergence:	-0.13 °

Well:	NAVAJO/AA #3		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 33' 29.423 N
		Longitude:	108° 3' 0.454 W
		Ground Level:	6,092.0 ft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2007	2008/03/20	10.44
			Dip Angle
			(°)
			Field Strength
			(nT)
			50,910

Design:	ACTUAL		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
		Direction	(°)
		130.92	

Survey Program	Date 2008/06/02		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
454.0	6,840.0	MWD Survey (Wellbore #1)	MWD
			Description
			MWD - Standard

Scientific Drilling

Survey Report - Geographic

Company:	CHEVRON MCBU	Local Co-ordinate Reference:	Well NAVAJO AA #3
Project:	SAN JUAN BASIN, NM, NAD 27	TVD Reference:	WELL @ 6108.0ft (Original Well Elev)
Site:	NAVAJO	MD Reference:	WELL @ 6108.0ft (Original Well Elev)
Well:	NAVAJO AA #3	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL	Database:	EDM 2004.16 Database

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude		Longitude
0.0	0.00	0.00	0.0	0.0	0.0	2,022,495.80	436,328.80	36° 33' 29.423 N		108° 3' 0.454 W
454.0	1.77	294.01	453.9	2.9	-6.4	2,022,498.65	436,322.39	36° 33' 29.451 N		108° 3' 0.532 W
485.0	1.63	298.15	484.9	3.3	-7.2	2,022,499.06	436,321.57	36° 33' 29.455 N		108° 3' 0.542 W
516.0	1.05	311.35	515.9	3.7	-7.8	2,022,499.45	436,320.97	36° 33' 29.459 N		108° 3' 0.550 W
547.0	0.35	30.55	546.9	3.9	-8.0	2,022,499.72	436,320.80	36° 33' 29.461 N		108° 3' 0.552 W
578.0	1.30	102.79	577.9	3.9	-7.6	2,022,499.72	436,321.19	36° 33' 29.461 N		108° 3' 0.547 W
609.0	2.65	117.94	608.9	3.5	-6.6	2,022,499.31	436,322.17	36° 33' 29.457 N		108° 3' 0.535 W
639.0	3.64	117.63	638.8	2.7	-5.2	2,022,498.54	436,323.63	36° 33' 29.450 N		108° 3' 0.517 W
670.0	4.40	116.34	669.8	1.8	-3.2	2,022,497.56	436,325.56	36° 33' 29.440 N		108° 3' 0.493 W
701.0	5.12	117.94	700.7	0.6	-0.9	2,022,496.38	436,327.85	36° 33' 29.428 N		108° 3' 0.465 W
732.0	5.77	118.44	731.5	-0.8	1.6	2,022,494.99	436,330.44	36° 33' 29.415 N		108° 3' 0.434 W
763.0	6.62	119.95	762.3	-2.4	4.6	2,022,493.36	436,333.36	36° 33' 29.399 N		108° 3' 0.398 W
794.0	7.37	124.05	793.1	-4.4	7.8	2,022,491.35	436,336.56	36° 33' 29.379 N		108° 3' 0.358 W
825.0	8.40	125.94	823.8	-6.9	11.2	2,022,488.91	436,340.04	36° 33' 29.355 N		108° 3' 0.316 W
856.0	9.19	127.76	854.4	-9.7	15.0	2,022,486.07	436,343.83	36° 33' 29.327 N		108° 3' 0.269 W
887.0	10.13	129.25	885.0	-13.0	19.1	2,022,482.83	436,347.90	36° 33' 29.295 N		108° 3' 0.219 W
918.0	11.09	129.57	915.5	-16.6	23.5	2,022,479.20	436,352.31	36° 33' 29.259 N		108° 3' 0.165 W
949.0	11.64	129.68	945.9	-20.5	28.2	2,022,475.31	436,357.01	36° 33' 29.221 N		108° 3' 0.107 W
979.0	11.73	130.27	975.2	-24.4	32.9	2,022,471.40	436,361.67	36° 33' 29.182 N		108° 3' 0.050 W
1,014.0	11.75	133.23	1,009.5	-29.1	38.2	2,022,466.66	436,366.98	36° 33' 29.135 N		108° 2' 59.985 W
1,076.0	13.19	133.75	1,070.0	-38.4	47.9	2,022,457.45	436,376.69	36° 33' 29.044 N		108° 2' 59.866 W
1,137.0	14.34	132.08	1,129.3	-48.2	58.5	2,022,447.57	436,387.32	36° 33' 28.947 N		108° 2' 59.735 W
1,199.0	16.13	130.50	1,189.1	-59.0	70.8	2,022,436.83	436,399.57	36° 33' 28.841 N		108° 2' 59.585 W
1,230.0	16.05	129.94	1,218.9	-64.5	77.3	2,022,431.28	436,406.13	36° 33' 28.786 N		108° 2' 59.504 W
1,292.0	16.30	131.74	1,278.4	-75.8	90.4	2,022,419.99	436,419.19	36° 33' 28.675 N		108° 2' 59.344 W
1,368.0	15.79	131.76	1,351.5	-89.8	106.1	2,022,406.00	436,434.87	36° 33' 28.537 N		108° 2' 59.151 W
1,458.0	16.77	131.06	1,437.9	-106.5	125.0	2,022,389.32	436,453.79	36° 33' 28.372 N		108° 2' 58.919 W
1,547.0	17.79	129.65	1,522.9	-123.6	145.1	2,022,372.21	436,473.94	36° 33' 28.204 N		108° 2' 58.671 W
1,637.0	16.73	129.12	1,608.8	-140.5	165.8	2,022,355.26	436,494.58	36° 33' 28.036 N		108° 2' 58.418 W
1,727.0	18.08	130.00	1,694.7	-157.7	186.5	2,022,338.11	436,515.33	36° 33' 27.867 N		108° 2' 58.163 W
1,817.0	18.67	130.05	1,780.1	-175.9	208.3	2,022,319.86	436,537.05	36° 33' 27.687 N		108° 2' 57.896 W
1,907.0	18.33	129.01	1,865.4	-194.1	230.3	2,022,301.69	436,559.08	36° 33' 27.508 N		108° 2' 57.626 W
1,997.0	17.19	129.67	1,951.1	-211.5	251.5	2,022,284.29	436,580.31	36° 33' 27.337 N		108° 2' 57.365 W
2,087.0	16.19	133.68	2,037.4	-228.7	270.8	2,022,267.13	436,599.62	36° 33' 27.167 N		108° 2' 57.128 W
2,176.0	15.99	138.81	2,122.9	-246.5	287.9	2,022,249.34	436,616.67	36° 33' 26.992 N		108° 2' 56.918 W
2,266.0	17.84	130.28	2,209.0	-264.7	306.6	2,022,231.09	436,635.36	36° 33' 26.812 N		108° 2' 56.689 W
2,356.0	18.00	128.83	2,294.6	-282.3	327.9	2,022,213.46	436,656.71	36° 33' 26.638 N		108° 2' 56.427 W
2,446.0	17.80	131.25	2,380.3	-300.1	349.1	2,022,195.67	436,677.88	36° 33' 26.462 N		108° 2' 56.167 W
2,536.0	16.67	134.30	2,466.2	-318.2	368.7	2,022,177.58	436,697.46	36° 33' 26.284 N		108° 2' 55.926 W
2,626.0	17.22	134.33	2,552.3	-336.5	387.4	2,022,159.26	436,716.23	36° 33' 26.103 N		108° 2' 55.696 W
2,685.0	18.01	133.85	2,608.6	-349.0	400.3	2,022,146.84	436,729.06	36° 33' 25.981 N		108° 2' 55.538 W
2,793.0	16.12	134.74	2,711.8	-371.1	422.9	2,022,124.71	436,751.75	36° 33' 25.762 N		108° 2' 55.259 W
2,883.0	16.62	134.14	2,798.1	-388.8	441.1	2,022,106.96	436,769.86	36° 33' 25.587 N		108° 2' 55.037 W
2,973.0	16.28	130.15	2,884.5	-405.9	459.9	2,022,089.86	436,788.74	36° 33' 25.418 N		108° 2' 54.805 W
3,063.0	16.82	132.18	2,970.7	-422.8	479.2	2,022,072.98	436,808.03	36° 33' 25.252 N		108° 2' 54.568 W
3,153.0	18.35	131.58	3,056.5	-441.0	499.5	2,022,054.83	436,828.28	36° 33' 25.073 N		108° 2' 54.319 W
3,243.0	18.93	130.71	3,141.8	-459.9	521.1	2,022,035.91	436,849.94	36° 33' 24.886 N		108° 2' 54.053 W
3,333.0	18.15	130.50	3,227.1	-478.5	542.9	2,022,017.28	436,871.67	36° 33' 24.703 N		108° 2' 53.786 W
3,422.0	16.70	130.32	3,312.1	-495.8	563.2	2,022,000.01	436,891.96	36° 33' 24.532 N		108° 2' 53.537 W
3,512.0	17.08	131.49	3,398.2	-512.9	582.9	2,021,982.88	436,911.72	36° 33' 24.363 N		108° 2' 53.295 W
3,602.0	17.78	132.72	3,484.0	-531.0	602.9	2,021,964.80	436,931.72	36° 33' 24.185 N		108° 2' 53.049 W
3,692.0	16.51	130.83	3,570.0	-548.7	622.7	2,021,947.12	436,951.49	36° 33' 24.010 N		108° 2' 52.806 W
3,782.0	17.63	130.90	3,656.1	-566.0	642.7	2,021,929.83	436,971.47	36° 33' 23.840 N		108° 2' 52.561 W
3,872.0	17.99	127.47	3,741.8	-583.3	664.0	2,021,912.45	436,992.80	36° 33' 23.669 N		108° 2' 52.299 W
3,962.0	16.54	129.73	3,827.7	-600.0	684.9	2,021,895.81	437,013.69	36° 33' 23.504 N		108° 2' 52.042 W

Scientific Drilling

Survey Report - Geographic

Company:	CHEVRON MCBU	Local Co-ordinate Reference:	Well NAVAJO AA #3
Project:	SAN JUAN BASIN, NM, NAD 27	TVD Reference:	WELL @ 6108.0ft (Original Well Elev)
Site:	NAVAJO	MD Reference:	WELL @ 6108.0ft (Original Well Elev)
Well:	NAVAJO AA #3	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL	Database:	EDM 2004.16 Database

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
4,052.0	15.94	131.34	3,914.1	-616.3	704.0	2,021,879.46	437,032.82	36° 33' 23.343 N	108° 2' 51.807 W
4,141.0	16.05	133.03	3,999.7	-632.8	722.2	2,021,862.99	437,050.99	36° 33' 23.181 N	108° 2' 51.584 W
4,231.0	17.98	132.13	4,085.7	-650.6	741.6	2,021,845.18	437,070.38	36° 33' 23.005 N	108° 2' 51.346 W
4,321.0	24.76	131.01	4,169.5	-672.3	766.1	2,021,823.47	437,094.94	36° 33' 22.791 N	108° 2' 51.044 W
4,411.0	26.07	130.96	4,250.8	-697.7	795.3	2,021,798.14	437,124.09	36° 33' 22.541 N	108° 2' 50.686 W
4,501.0	26.18	131.25	4,331.6	-723.7	825.2	2,021,772.08	437,153.95	36° 33' 22.284 N	108° 2' 50.320 W
4,591.0	23.48	131.52	4,413.3	-748.7	853.5	2,021,747.10	437,182.31	36° 33' 22.038 N	108° 2' 49.971 W
4,681.0	20.90	131.84	4,496.6	-771.3	878.9	2,021,724.51	437,207.70	36° 33' 21.815 N	108° 2' 49.660 W
4,768.0	17.63	130.31	4,578.7	-790.2	900.5	2,021,705.63	437,229.31	36° 33' 21.628 N	108° 2' 49.394 W
4,866.0	16.13	124.99	4,672.5	-807.6	923.0	2,021,688.22	437,251.78	36° 33' 21.457 N	108° 2' 49.118 W
4,956.0	15.62	132.05	4,759.1	-822.9	942.2	2,021,672.93	437,271.03	36° 33' 21.306 N	108° 2' 48.882 W
5,046.0	16.77	132.92	4,845.5	-839.8	960.7	2,021,655.97	437,289.53	36° 33' 21.139 N	108° 2' 48.655 W
5,136.0	13.19	131.00	4,932.4	-855.4	978.0	2,021,640.39	437,306.80	36° 33' 20.985 N	108° 2' 48.443 W
5,226.0	11.64	136.60	5,020.3	-868.7	992.0	2,021,627.06	437,320.78	36° 33' 20.853 N	108° 2' 48.271 W
5,316.0	17.15	126.29	5,107.5	-883.2	1,008.9	2,021,612.59	437,337.73	36° 33' 20.711 N	108° 2' 48.063 W
5,406.0	17.65	121.48	5,193.3	-898.2	1,031.3	2,021,597.61	437,360.07	36° 33' 20.563 N	108° 2' 47.789 W
5,496.0	14.01	122.19	5,279.9	-911.1	1,052.1	2,021,584.68	437,380.93	36° 33' 20.436 N	108° 2' 47.532 W
5,586.0	16.07	129.24	5,366.8	-924.8	1,071.0	2,021,570.99	437,399.80	36° 33' 20.301 N	108° 2' 47.301 W
5,676.0	15.53	134.13	5,453.4	-941.1	1,089.3	2,021,554.72	437,418.10	36° 33' 20.140 N	108° 2' 47.076 W
5,765.0	14.88	136.68	5,539.3	-957.7	1,105.7	2,021,538.11	437,434.49	36° 33' 19.976 N	108° 2' 46.875 W
5,855.0	16.20	136.52	5,626.0	-975.2	1,122.3	2,021,520.60	437,451.06	36° 33' 19.803 N	108° 2' 46.671 W
5,945.0	19.99	133.26	5,711.6	-994.9	1,142.1	2,021,500.94	437,470.91	36° 33' 19.609 N	108° 2' 46.427 W
6,035.0	16.77	135.10	5,797.0	-1,014.6	1,162.5	2,021,481.19	437,491.28	36° 33' 19.415 N	108° 2' 46.177 W
6,125.0	16.38	134.08	5,883.2	-1,032.6	1,180.8	2,021,463.17	437,509.56	36° 33' 19.237 N	108° 2' 45.953 W
6,215.0	17.74	129.95	5,969.3	-1,050.3	1,200.4	2,021,445.53	437,529.19	36° 33' 19.063 N	108° 2' 45.711 W
6,305.0	15.53	130.77	6,055.5	-1,066.9	1,220.0	2,021,428.86	437,548.83	36° 33' 18.898 N	108° 2' 45.470 W
6,395.0	13.92	130.47	6,142.5	-1,081.8	1,237.4	2,021,413.96	437,566.19	36° 33' 18.751 N	108° 2' 45.257 W
6,458.0	16.03	136.42	6,203.4	-1,093.1	1,249.2	2,021,402.74	437,577.95	36° 33' 18.641 N	108° 2' 45.113 W
depth 1									
6,485.0	16.98	138.52	6,229.3	-1,098.7	1,254.3	2,021,397.09	437,583.14	36° 33' 18.585 N	108° 2' 45.049 W
6,574.0	16.69	138.96	6,314.5	-1,118.1	1,271.3	2,021,377.71	437,600.13	36° 33' 18.394 N	108° 2' 44.840 W
6,598.0	16.18	139.39	6,337.5	-1,123.2	1,275.8	2,021,372.57	437,604.57	36° 33' 18.343 N	108° 2' 44.785 W
depth 2									
6,664.0	14.78	140.72	6,401.1	-1,136.7	1,287.1	2,021,359.07	437,615.89	36° 33' 18.210 N	108° 2' 44.646 W
6,782.0	13.66	140.87	6,515.5	-1,159.2	1,305.4	2,021,336.61	437,634.21	36° 33' 17.988 N	108° 2' 44.421 W
6,840.0	13.11	140.90	6,571.9	-1,169.6	1,313.9	2,021,326.20	437,642.68	36° 33' 17.885 N	108° 2' 44.317 W

Scientific Drilling Survey Report - Geographic

Company: CHEVRON MCBU
Project: SAN JUAN BASIN, NM, NAD 27
Site: NAVAJO
Well: NAVAJO AA #3
Wellbore: Wellbore #1
Design: ACTUAL

Local Co-ordinate Reference: Well NAVAJO AA #3
TVD Reference: WELL @ 6108.0ft (Original Well Elev)
MD Reference: WELL @ 6108.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2004.16 Database

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
hit/miss target									
- Shape									
PBHL AA #3	0.00	360.00	6,500.0	-1,161.4	1,339.6	2,021,334.40	437,668.40	36° 33' 17.967 N	108° 2' 44.002 W
- survey misses by 36.4ft at 6772.7ft MD (6506.5 TVD, -1157.5 N, 1304.0 E)									
- Circle (radius 100.0)									
DAKOTA (AA #3)	0.00	0.00	6,250.0	-1,109.1	1,279.3	2,021,386.70	437,608.10	36° 33' 18.483 N	108° 2' 44.743 W
- survey misses by 20.9ft at 6511.9ft MD (6255.0 TVD, -1104.6 N, 1259.5 E)									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,730.0	2,651.4	7"	7	7-1/2
400.0	400.0	9 5/8"	9-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,506.7	6,250.0	DAKOTA		0.00	

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,458.0	6,203.4	-1,093.1	1,249.2	depth 1
6,598.0	6,337.5	-1,123.2	1,275.8	depth 2

Checked By: _____ Approved By: _____ Date: _____

CHEVRON MCBU

SAN JUAN,IGNACIO BLANCO NAD 83

NAVAJO

NAVAJO AA #3

Wellbore #1

Survey: MWD Survey

Survey Report - Geographic

02 June, 2008

Scientific Drilling

Survey Report - Geographic

Company:	CHEVRON MCBU	Local Co-ordinate Reference:	Well NAVAJO AA #3
Project:	SAN JUAN IGNACIO BLANCO NAD 83	TVD Reference:	WELL @ 6108.0ft (Original Well Elev)
Site:	NAVAJO	MD Reference:	WELL @ 6108.0ft (Original Well Elev)
Well:	NAVAJO AA #3	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL	Database:	EDM 2004.16 Database

Project:	SAN JUAN IGNACIO BLANCO NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site		NAVAJO			
Site Position:		Northing:	2,022,558.14 ft	Latitude:	36° 33' 29.448 N
From:	Lat/Long	Easting:	2,659,238.75 ft	Longitude:	108° 3' 2.700 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	-0.13 °

Well	NAVAJO AA #3					
Well Position	+N/-S	0.0 ft	Northing:	2,022,558.14 ft	Latitude:	36° 33' 29.448 N
	+E/-W	0.0 ft	Easting:	2,659,238.75 ft	Longitude:	108° 3' 2.700 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,092.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2007	2008/03/20	10.44	63.34	50,959

Design:	ACTUAL			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	139.84

Survey Program		Date	2008/06/02		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
454.0	6,840.0	MWD Survey (Wellbore #1)	MWD	MWD - Standard	

Scientific Drilling

Survey Report - Geographic

Company:	CHEVRON-MCBU	Local Co-ordinate Reference:	Well NAVAJO AA #3
Project:	SAN JUAN, IGNACIO BLANCO NAD 83	TVD Reference:	WELL @ 6108.0ft (Original Well Elev)
Site:	NAVAJO	MD Reference:	WELL @ 6108.0ft (Original Well Elev)
Well:	NAVAJO AA #3	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL	Database:	EDM:2004.16 Database

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	2,022,558.14	2,659,238.75	36° 33' 29.448 N	108° 3' 2.700 W	
454.0	1.77	294.01	453.9	2.9	-6.4	2,022,561.00	2,659,232.35	36° 33' 29.476 N	108° 3' 2.779 W	
485.0	1.63	298.15	484.9	3.3	-7.2	2,022,561.40	2,659,231.52	36° 33' 29.480 N	108° 3' 2.789 W	
516.0	1.05	311.35	515.9	3.7	-7.8	2,022,561.80	2,659,230.92	36° 33' 29.484 N	108° 3' 2.796 W	
547.0	0.35	30.55	546.9	3.9	-8.0	2,022,562.06	2,659,230.75	36° 33' 29.487 N	108° 3' 2.798 W	
578.0	1.30	102.79	577.9	3.9	-7.6	2,022,562.07	2,659,231.14	36° 33' 29.487 N	108° 3' 2.793 W	
609.0	2.65	117.94	608.9	3.5	-6.6	2,022,561.65	2,659,232.12	36° 33' 29.483 N	108° 3' 2.781 W	
639.0	3.64	117.63	638.8	2.7	-5.2	2,022,560.89	2,659,233.58	36° 33' 29.475 N	108° 3' 2.764 W	
670.0	4.40	116.34	669.8	1.8	-3.2	2,022,559.90	2,659,235.51	36° 33' 29.465 N	108° 3' 2.740 W	
701.0	5.12	117.94	700.7	0.6	-0.9	2,022,558.73	2,659,237.80	36° 33' 29.454 N	108° 3' 2.712 W	
732.0	5.77	118.44	731.5	-0.8	1.6	2,022,557.34	2,659,240.39	36° 33' 29.440 N	108° 3' 2.680 W	
763.0	6.62	119.95	762.3	-2.4	4.6	2,022,555.70	2,659,243.31	36° 33' 29.424 N	108° 3' 2.644 W	
794.0	7.37	124.05	793.1	-4.4	7.8	2,022,553.70	2,659,246.51	36° 33' 29.404 N	108° 3' 2.605 W	
825.0	8.40	125.94	823.8	-6.9	11.2	2,022,551.26	2,659,249.99	36° 33' 29.380 N	108° 3' 2.562 W	
856.0	9.19	127.76	854.4	-9.7	15.0	2,022,548.41	2,659,253.78	36° 33' 29.352 N	108° 3' 2.516 W	
887.0	10.13	129.25	885.0	-13.0	19.1	2,022,545.17	2,659,257.85	36° 33' 29.320 N	108° 3' 2.466 W	
918.0	11.09	129.57	915.5	-16.6	23.5	2,022,541.55	2,659,262.26	36° 33' 29.284 N	108° 3' 2.411 W	
949.0	11.64	129.68	945.9	-20.5	28.2	2,022,537.65	2,659,266.96	36° 33' 29.246 N	108° 3' 2.354 W	
979.0	11.73	130.27	975.2	-24.4	32.9	2,022,533.75	2,659,271.62	36° 33' 29.207 N	108° 3' 2.296 W	
1,014.0	11.75	133.23	1,009.5	-29.1	38.2	2,022,529.01	2,659,276.93	36° 33' 29.161 N	108° 3' 2.231 W	
1,076.0	13.19	133.75	1,070.0	-38.4	47.9	2,022,519.79	2,659,286.64	36° 33' 29.070 N	108° 3' 2.112 W	
1,137.0	14.34	132.08	1,129.3	-48.2	58.5	2,022,509.91	2,659,297.27	36° 33' 28.972 N	108° 3' 1.981 W	
1,199.0	16.13	130.50	1,189.1	-59.0	70.8	2,022,499.17	2,659,309.52	36° 33' 28.866 N	108° 3' 1.831 W	
1,230.0	16.05	129.94	1,218.9	-64.5	77.3	2,022,493.63	2,659,316.08	36° 33' 28.812 N	108° 3' 1.750 W	
1,292.0	16.30	131.74	1,278.4	-75.8	90.4	2,022,482.33	2,659,329.15	36° 33' 28.700 N	108° 3' 1.590 W	
1,368.0	15.79	131.76	1,351.5	-89.8	106.1	2,022,468.34	2,659,344.82	36° 33' 28.562 N	108° 3' 1.397 W	
1,458.0	16.77	131.06	1,437.9	-106.5	125.0	2,022,451.66	2,659,363.74	36° 33' 28.398 N	108° 3' 1.165 W	
1,547.0	17.79	129.65	1,522.9	-123.6	145.1	2,022,434.55	2,659,383.89	36° 33' 28.229 N	108° 3' 0.917 W	
1,637.0	16.73	129.12	1,608.8	-140.5	165.8	2,022,417.60	2,659,404.53	36° 33' 28.062 N	108° 3' 0.664 W	
1,727.0	18.08	130.00	1,694.7	-157.7	186.5	2,022,400.45	2,659,425.28	36° 33' 27.893 N	108° 3' 0.409 W	
1,817.0	18.67	130.05	1,780.1	-175.9	208.3	2,022,382.21	2,659,447.00	36° 33' 27.713 N	108° 3' 0.142 W	
1,907.0	18.33	129.01	1,865.4	-194.1	230.3	2,022,364.03	2,659,469.03	36° 33' 27.534 N	108° 2' 59.872 W	
1,997.0	17.19	129.67	1,951.1	-211.5	251.5	2,022,346.63	2,659,490.26	36° 33' 27.362 N	108° 2' 59.611 W	
2,087.0	16.19	133.68	2,037.4	-228.7	270.8	2,022,329.48	2,659,509.57	36° 33' 27.193 N	108° 2' 59.374 W	
2,176.0	15.99	138.81	2,122.9	-246.5	287.9	2,022,311.68	2,659,526.62	36° 33' 27.017 N	108° 2' 59.165 W	
2,266.0	17.84	130.28	2,209.0	-264.7	306.6	2,022,293.43	2,659,545.31	36° 33' 26.837 N	108° 2' 58.935 W	
2,356.0	18.00	128.83	2,294.6	-282.3	327.9	2,022,275.80	2,659,566.66	36° 33' 26.663 N	108° 2' 58.673 W	
2,446.0	17.80	131.25	2,380.3	-300.1	349.1	2,022,258.01	2,659,587.83	36° 33' 26.488 N	108° 2' 58.413 W	
2,536.0	16.67	134.30	2,466.2	-318.2	368.7	2,022,239.93	2,659,607.41	36° 33' 26.309 N	108° 2' 58.172 W	
2,626.0	17.22	134.33	2,552.3	-336.5	387.4	2,022,221.60	2,659,626.18	36° 33' 26.129 N	108° 2' 57.942 W	
2,685.0	18.01	133.85	2,608.6	-349.0	400.3	2,022,209.18	2,659,639.01	36° 33' 26.006 N	108° 2' 57.784 W	
2,730.0	17.22	134.20	2,651.4	-358.4	410.0	2,022,199.72	2,659,648.80	36° 33' 25.913 N	108° 2' 57.664 W	
2,793.0	16.12	134.74	2,711.8	-371.1	422.9	2,022,187.06	2,659,661.70	36° 33' 25.788 N	108° 2' 57.505 W	
2,883.0	16.62	134.14	2,798.1	-388.8	441.1	2,022,169.30	2,659,679.81	36° 33' 25.613 N	108° 2' 57.283 W	
2,973.0	16.28	130.15	2,884.5	-405.9	459.9	2,022,152.20	2,659,698.69	36° 33' 25.444 N	108° 2' 57.051 W	
3,063.0	16.82	132.18	2,970.7	-422.8	479.2	2,022,135.32	2,659,717.98	36° 33' 25.277 N	108° 2' 56.814 W	
3,153.0	18.35	131.58	3,056.5	-441.0	499.5	2,022,117.18	2,659,738.23	36° 33' 25.098 N	108° 2' 56.565 W	
3,243.0	18.93	130.71	3,141.8	-459.9	521.1	2,022,098.25	2,659,759.89	36° 33' 24.912 N	108° 2' 56.299 W	
3,333.0	18.15	130.50	3,227.1	-478.5	542.9	2,022,079.63	2,659,781.62	36° 33' 24.728 N	108° 2' 56.033 W	
3,422.0	16.70	130.32	3,312.1	-495.8	563.2	2,022,062.35	2,659,801.91	36° 33' 24.558 N	108° 2' 55.783 W	
3,512.0	17.08	131.49	3,398.2	-512.9	582.9	2,022,045.23	2,659,821.67	36° 33' 24.389 N	108° 2' 55.541 W	
3,602.0	17.78	132.72	3,484.0	-531.0	602.9	2,022,027.15	2,659,841.67	36° 33' 24.210 N	108° 2' 55.295 W	
3,692.0	16.51	130.83	3,570.0	-548.7	622.7	2,022,009.46	2,659,861.44	36° 33' 24.036 N	108° 2' 55.052 W	
3,782.0	17.63	130.90	3,656.1	-566.0	642.7	2,021,992.18	2,659,881.42	36° 33' 23.866 N	108° 2' 54.807 W	
3,872.0	17.99	127.47	3,741.8	-583.3	664.0	2,021,974.80	2,659,902.75	36° 33' 23.694 N	108° 2' 54.545 W	

Scientific Drilling

Survey Report - Geographic

Company: CHEVRON MCBU
 Project: SAN JUAN, IGNACIO BLANCO NAD 83
 Site: NAVAJO
 Well: NAVAJO AA #3
 Wellbore: Wellbore #1
 Design: ACTUAL

Local Co-ordinate Reference: Well NAVAJO AA #3
 TVD Reference: WELL @ 6108.0ft (Original Well Elev)
 MD Reference: WELL @ 6108.0ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2004.16 Database

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
3,962.0	16.54	129.73	3,827.7	-600.0	684.9	2,021,958.16	2,659,923.63	36° 33' 23.530 N	108° 2' 54.288 W
4,052.0	15.94	131.34	3,914.1	-616.3	704.0	2,021,941.80	2,659,942.77	36° 33' 23.369 N	108° 2' 54.053 W
4,141.0	16.05	133.03	3,999.7	-632.8	722.2	2,021,925.34	2,659,960.93	36° 33' 23.206 N	108° 2' 53.830 W
4,231.0	17.98	132.13	4,085.7	-650.6	741.6	2,021,907.53	2,659,980.33	36° 33' 23.031 N	108° 2' 53.592 W
4,321.0	24.76	131.01	4,169.5	-672.3	766.1	2,021,885.82	2,660,004.89	36° 33' 22.816 N	108° 2' 53.290 W
4,411.0	26.07	130.96	4,250.8	-697.7	795.3	2,021,860.48	2,660,034.04	36° 33' 22.567 N	108° 2' 52.932 W
4,501.0	26.18	131.25	4,331.6	-723.7	825.2	2,021,834.43	2,660,063.90	36° 33' 22.310 N	108° 2' 52.566 W
4,591.0	23.48	131.52	4,413.3	-748.7	853.5	2,021,809.45	2,660,092.26	36° 33' 22.063 N	108° 2' 52.217 W
4,681.0	20.90	131.84	4,496.6	-771.3	878.9	2,021,786.85	2,660,117.65	36° 33' 21.840 N	108° 2' 51.906 W
4,768.0	17.63	130.31	4,578.7	-790.2	900.5	2,021,767.97	2,660,139.26	36° 33' 21.654 N	108° 2' 51.640 W
4,866.0	16.13	124.99	4,672.5	-807.6	923.0	2,021,750.56	2,660,161.73	36° 33' 21.482 N	108° 2' 51.364 W
4,956.0	15.62	132.05	4,759.1	-822.9	942.2	2,021,735.28	2,660,180.97	36° 33' 21.332 N	108° 2' 51.128 W
5,046.0	16.77	132.92	4,845.5	-839.8	960.7	2,021,718.32	2,660,199.48	36° 33' 21.164 N	108° 2' 50.901 W
5,136.0	13.19	131.00	4,932.4	-855.4	978.0	2,021,702.74	2,660,216.74	36° 33' 21.011 N	108° 2' 50.689 W
5,226.0	11.64	136.60	5,020.3	-868.7	992.0	2,021,689.40	2,660,230.73	36° 33' 20.879 N	108° 2' 50.517 W
5,316.0	17.15	126.29	5,107.5	-883.2	1,008.9	2,021,674.94	2,660,247.68	36° 33' 20.736 N	108° 2' 50.309 W
5,406.0	17.65	121.48	5,193.3	-898.2	1,031.3	2,021,659.96	2,660,270.02	36° 33' 20.589 N	108° 2' 50.034 W
5,496.0	14.01	122.19	5,279.9	-911.1	1,052.1	2,021,647.02	2,660,290.88	36° 33' 20.461 N	108° 2' 49.778 W
5,586.0	16.07	129.24	5,366.8	-924.8	1,071.0	2,021,633.34	2,660,309.75	36° 33' 20.326 N	108° 2' 49.547 W
5,676.0	15.53	134.13	5,453.4	-941.1	1,089.3	2,021,617.07	2,660,328.05	36° 33' 20.166 N	108° 2' 49.322 W
5,765.0	14.88	136.68	5,539.3	-957.7	1,105.7	2,021,600.46	2,660,344.44	36° 33' 20.002 N	108° 2' 49.121 W
5,855.0	16.20	136.52	5,626.0	-975.2	1,122.3	2,021,582.94	2,660,361.01	36° 33' 19.829 N	108° 2' 48.917 W
5,945.0	19.99	133.26	5,711.6	-994.9	1,142.1	2,021,563.28	2,660,380.86	36° 33' 19.635 N	108° 2' 48.673 W
6,035.0	16.77	135.10	5,797.0	-1,014.6	1,162.5	2,021,543.54	2,660,401.23	36° 33' 19.440 N	108° 2' 48.423 W
6,125.0	16.38	134.08	5,883.2	-1,032.6	1,180.8	2,021,525.51	2,660,419.51	36° 33' 19.263 N	108° 2' 48.198 W
6,215.0	17.74	129.95	5,969.3	-1,050.3	1,200.4	2,021,507.88	2,660,439.14	36° 33' 19.089 N	108° 2' 47.957 W
6,305.0	15.53	130.77	6,055.5	-1,066.9	1,220.0	2,021,491.20	2,660,458.78	36° 33' 18.924 N	108° 2' 47.716 W
6,395.0	13.92	130.47	6,142.5	-1,081.8	1,237.4	2,021,476.31	2,660,476.14	36° 33' 18.777 N	108° 2' 47.503 W
6,458.0	16.03	136.42	6,203.4	-1,093.1	1,249.2	2,021,465.09	2,660,487.90	36° 33' 18.666 N	108° 2' 47.358 W
depth 1									
6,485.0	16.98	138.52	6,229.3	-1,098.7	1,254.3	2,021,459.43	2,660,493.08	36° 33' 18.611 N	108° 2' 47.295 W
6,506.7	16.91	138.63	6,250.0	-1,103.5	1,258.5	2,021,454.69	2,660,497.27	36° 33' 18.564 N	108° 2' 47.243 W
6,511.8	16.89	138.65	6,254.9	-1,104.6	1,259.5	2,021,453.58	2,660,498.25	36° 33' 18.553 N	108° 2' 47.231 W
6,574.0	16.69	138.96	6,314.5	-1,118.1	1,271.3	2,021,440.06	2,660,510.08	36° 33' 18.419 N	108° 2' 47.086 W
6,598.0	16.18	139.39	6,337.5	-1,123.2	1,275.8	2,021,434.92	2,660,514.52	36° 33' 18.369 N	108° 2' 47.031 W
depth 2									
6,664.0	14.78	140.72	6,401.1	-1,136.7	1,287.1	2,021,421.42	2,660,525.84	36° 33' 18.236 N	108° 2' 46.892 W
6,772.7	13.75	140.86	6,506.4	-1,157.5	1,304.0	2,021,400.67	2,660,542.77	36° 33' 18.031 N	108° 2' 46.684 W
6,782.0	13.66	140.87	6,515.5	-1,159.2	1,305.4	2,021,398.96	2,660,544.16	36° 33' 18.014 N	108° 2' 46.667 W
6,840.0	13.11	140.90	6,571.9	-1,169.6	1,313.9	2,021,388.54	2,660,552.63	36° 33' 17.911 N	108° 2' 46.563 W

Scientific Drilling Survey Report - Geographic

Company:	CHEVRON MCBU	Local Co-ordinate Reference:	Well NAVAJO AA #3
Project:	SAN JUAN IGNACIO BLANCO NAD.83	TVD Reference:	WELL @ 6108.0ft (Original Well Elev)
Site:	NAVAJO	MD Reference:	WELL @ 6108.0ft (Original Well Elev)
Well:	NAVAJO AA #3	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL	Database:	EDM 2004.16 Database

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Shape									
PBHL AA #3	0.00	4.46	6,500.0	-1,223.7	-2,221,570.4	2,021,334.40	437,668.40	36° 18' 9.962 N	115° 34' 57.281 W
- survey hits target									
- Circle (radius 100.0)									
DAKOTA (AA #3)	0.00	4.46	6,250.0	-1,171.4	-2,221,630.7	2,021,386.70	437,608.10	36° 18' 10.427 N	115° 34' 58.062 W
- survey hits target									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(ft)	(ft)			(")	(")
2,730.0	2,651.4	7"		7	7-1/2
400.0	400.0	9 5/8"		9-5/8	12-1/4

Formations						
Measured Depth	Vertical Depth	Name		Lithology	Dip	Dip Direction
(ft)	(ft)				(°)	(°)
6,506.7	6,250.0	DAKOTA			0.00	

Survey Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	+N/-S	+E/-W		
(ft)	(ft)	(ft)	(ft)	Comment	
6,458.0	6,203.4	-1,093.1	1,249.2	depth 1	
6,598.0	6,337.5	-1,123.2	1,275.8	depth 2	

Checked By: _____ Approved By: _____ Date: _____