

DATE IN <u>3-16-10</u>	SUSPENSE	ENGINEER <u>Brooks</u>	LOGGED IN <u>3-16-10</u>	TYPE <u>NSL</u>	PTG-W APP NO. <u>1007549433</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



Burlington

San Juan 28-6 Unit #11718

**ADMINISTRATIVE APPLICATION CHECKLIST**

30-039-30726

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

**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]

6176

RECEIVED OGD  
 MAR 16 AM 11:32

[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.**

[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.**

Patsy Clugston

Print or Type Name

Patsy Clugston  
 Signature

Sr. Regulatory Specialist

Title

3/15/10

Date

Patricia.L.Clugston@conocophillips.com

e-mail Address

***Burlington Resources Oil & Gas Company, LP***

P.O. Box 4289  
Farmington, NM 87499

Sent Federal Express

March 15, 2009

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87504

Re: San Juan 28-6 Unit #117N  
Surface Location - Unit J (NWSE), 1909 FSL & 1920' FEL, Section 10, T28N, R6W  
As Drilled - Bottomhole Location - Unit O (SWSE), 189' FSL & 1947' FEL, Sec. 10, T28N, R6W  
API-30-039-30726

Dear Sirs:

Burlington Resources permitted the subject well to be a Blanco Mesaverde and Basin Dakota commingle wells. The Mesaverde and Dakota are both in their Participating Area (PA) and therefore the bottomhole location is standard for the MV per order R-10987-A (1) and R-109887-B (2) for Dakota. After the well was drilled and logged, Burlington decided to also add the Basin Mancos interval since the logs indicated Mancos gas present. Per R-12984 since this well is not inside a Mancos Participating Area and the footages are less than 660' from the section line we need to apply for an unorthodox gas well location for the Mancos formation.

Completion of this well has been put on hold until we can obtain NSL approval for the Mancos. Poor economics prohibits us from drilling a new well just to capture the Mancos gas. Adding the Basin Mancos zone to this MV/DK would allow us to produce Mancos gas that would otherwise be unattainable.

To comply with the New Mexico Oil Conservation Division rules, we are submitting the following for your approval of this non-standard:

- > Approved Application for Permit to Drill for the MV/DK and C102 at referenced location
- > Notice of Intent to add the Basin Mancos and Mancos Plat
- > Offset operator plat
- > 9 section plat

Production from the Basin Mancos is dedicated to all of section 10, T28N, R6W which includes 283.40 acres.

Currently there are no Mancos wells in the affected section - Section 15, T28N, R6W. But a July 19, 1999 Supplemental Title opinion identifies Four Star Oil & Gas Company as owning all the rights to the Mancos formation in Section 15, therefore notification is being sent to Four Star Oil and Gas. Please let me know if you have any questions about this application at 505-326-9518.

Sincerely Yours



Patsy Clugston  
Regulatory Specialist

*Burlington Resources Oil & Gas Company, LP*

San Juan 28-6 Unit 117N

NSL application

Surface Location - J 1909' FSL & 1920' FEL, Sec. 10, T28N, R6W

As Drilled - Bottomhole Location - Unit O (SWSE), 189' FSL & 1947' FEL, Sec. 10, T28N, R6W

API - 30-039-30726

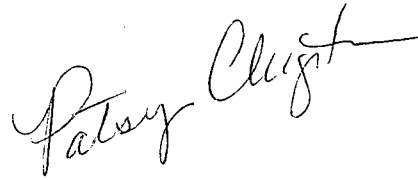
I hereby certify that the Off-set operator has been notified by certified mail of our application for administrative approval for non-standard well location of the above well.

Four Star Oil & Gas Company

Attn: Barbara Nelms

P.O. Box 2100

Houston, TX 77252

A handwritten signature in black ink, appearing to read "Patry Clight". The signature is written in a cursive, flowing style with a long horizontal stroke at the end.

**U.S. Postal Service**  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)  
 For delivery information visit our website at [www.usps.com](http://www.usps.com)

0110 6605 9590 0008 3857 SE

Postage	\$0.42
Certified Fee	\$2.70
Return Receipt Fee (Endorsement Required)	\$2.20
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$5.32

3/15/10

Postmark  
Here

266 #117N

ASE

Code: RE: NSL SJ 28-6 Unit 117N  
Code 2

Sent To **Four Star Oil & Gas Company**  
**Attn: Barbara Nelms**  
 Street, Apt. No. or PO Box No. **P.O. Box 2100**  
 City, State, Zip+4 **Houston, TX 77252**

PS Form 3800, August 2006 3/15/2010 8:01 AM See Reverse for Instructions

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**RECEIVED**

FEB 25 2010

## Sundry Notices and Reports on Wells

Bureau of Land Management  
Farmington Field Office

1. Type of Well  
GAS

2. Name of Operator  
**BURLINGTON**  
RESOURCES OIL & GAS COMPANY LP

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

Surface: Unit J (NWSE), 1909' FSL & 1920' FEL, Section 10, T28N, R6W, NMPM

Bottomhole: Unit O (SWSE), 197' FSL & 1930' FEL, Section 10, T28N, R6W, NMPM

5. Lease Number  
~~NM-05493~~ SF-070805-A

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name  
San Juan 28-6 Unit

8. Well Name & Number  
San Juan 28-6 Unit 117N

9. API Well No.  
30-039-30726

10. Field and Pool  
Blanco MV/Basin Mancos/Basin DK

11. County and State  
Rio Arriba, NM

**12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

Type of Submission	Type of Action			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans	<input checked="" type="checkbox"/> Other —	<input type="checkbox"/> Add Mancos
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction		
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging	<input type="checkbox"/> Non-Routine Fracturing		
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off		
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection		

**13. Describe Proposed or Completed Operations**

Burlington Resources wishes to add the Basin Mancos formation to the subject well. The new plat and project proposal are attached. The C107A will be submitted to trimmingle the well.

**14. I hereby certify that the foregoing is true and correct.**

Signed Crystal Tafoya Crystal Tafoya Title Regulatory Technician Date 2/25/2010

(This space for Federal or State Office use)

APPROVED BY Troy L Salazar Title Petroleum Engineer Date 3/2/2010

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1601, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**OPERATOR**

DISTRICT I  
1626 N. French Dr., Hobbs, N.M. 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised October 12, 2005

OIL CONSERVATION DIVISION

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

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-30726	<sup>2</sup> Pool Code 71599/72319/97232	<sup>3</sup> Pool Name BASIN DAKOTA/BLANCO MESAVERDE / BASIN MANCOS
<sup>4</sup> Property Code 7462	<sup>5</sup> Property Name SAN JUAN 28-6 UNIT	<sup>6</sup> Well Number 117 N
<sup>7</sup> GRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	<sup>9</sup> Elevation 6411'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	10	28N	6W	2	1909'	SOUTH	1920'	EAST	RIO ARRIBA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	10	28N	6W		197'	SOUTH	1930'	EAST	RIO ARRIBA

<sup>12</sup> Dedicated Acres PC MV 283.40 Acres SEC. 10 ALL DK 353.83 Acres E/2 SEC 10 W/2 SEC. 11 W/2/E/2 SEC. 11	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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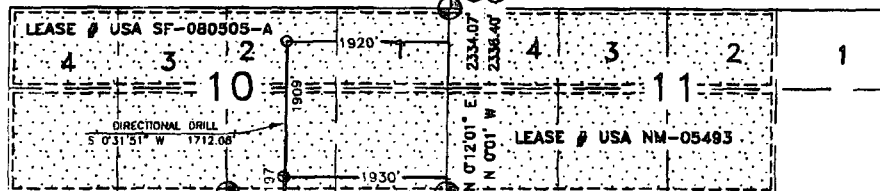
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

Mancos -

283.40 dedicated acres  
in all of section 10 - 28N - 6W

SURFACE LOCATION  
LAT. 36.67377° N (NAD83)  
LONG. 107.45204° W (NAD83)  
LAT. 36°40.42574' N (NAD27)  
LONG. 107°27.08617' W (NAD27)

FND 2 1/4" BC  
GLO 1914



FND REBAR  
IN ROCK PILE S 89°53'53\" W 2610.67' (M) FND 2\" BC  
S 89°58' W 2641.98' (R) GLO 1914

BOTTOM HOLE  
LAT. 36.68907° N (NAD83)  
LONG. 107.45209° W (NAD83)  
LAT. 36°40.14374' N (NAD27)  
LONG. 107°27.08917' W (NAD27)

<sup>17</sup> 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 released 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 or a compulsory pooling order heretofore entered by the division.

*Crystal Tafoya* 2/25/10  
Signature Date

Crystal Tafoya 2/25/2010  
Printed Name

<sup>18</sup> 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.

APRIL 23, 2009

Date of Survey

Signature and Seal of Professional Surveyor:

*David Russell*



DAVID RUSSELL

Certificate Number

10201

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 18 2009

## Sundry Notices and Reports on Wells

Bureau of Land Management  
Farmington Field Office1. Type of Well  
GAS

2. Name of Operator

**BURLINGTON**

RESOURCES OIL &amp; GAS COMPANY LP

3. Address &amp; Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

5. Lease Number  
**SF-080505-A**

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

San Juan 28-6 Unit

8. Well Name &amp; Number

9. **San Juan 28-6 Unit 117N**  
API Well No.

30-039 30726

10. Field and Pool

Basin DK/Blanco MV

Rio Arriba Co., NM

Surf: <sup>NW</sup> Unit J (NESE) 1909' FSL & 1920' FEL, Sec. 10, T28N, R6W, NMPM  
Bottom: Unit O (SWSE) 197' FSL & 1930' FEL, Sec. 10, T28N, R6W, NMPM

## 12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

## Type of Submission

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment

## Type of Action

☐ Abandonment☐ Recompletion☐ Plugging☐ Casing Repair☐ Altering Casing☐ Change of Plans☐ New Construction☐ Non-Routine Fracturing☐ Water Shut off☐ Conversion to Injection☒ Other -- Revised Footages

## 13. Describe Proposed or Completed Operations

Burlington Resources requests to move the subject well from the APD approved Surf: Unit J (NWSE), 1547' FSL & 1741' FEL to Surf: Unit J (NESE) 1909' FSL & 1920' FEL, Sec. 10, T28N, R6W due to drainage issues. The Bottom hole will not change.

## Attached:

Plat, Pad Diagram, Cut &amp; Fill, TOPO, Pipeline Plat, SUP, Project Proposal, DD Plan, EA

## 14. I hereby certify that the foregoing is true and correct.

Signed Tracey N. Monroe Tracey N. Monroe Title Staff Regulatory Technician Date 8/17/2009

(This space for Federal or State Office use)

APPROVED BY [Signature] Title AFM

CONDITION OF APPROVAL, if any:

Date 8/27/09

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR

RECORDED

DISTRICT I  
1025 N. French Dr., Hobbs, N.M. 88240

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised October 12, 2005

DISTRICT II  
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III  
1000 Rio Brazos Rd., Artesia, N.M. 87410

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039		*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE
*Property Code 7462	*Property Name SAN JUAN 28-6 UNIT		*Well Number 117 N
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 6411'

## 10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	10	28N	6W	2	1909'	SOUTH	1920'	EAST	RIO ARriba

## 11 Bottom Hole Location If Different From Surface

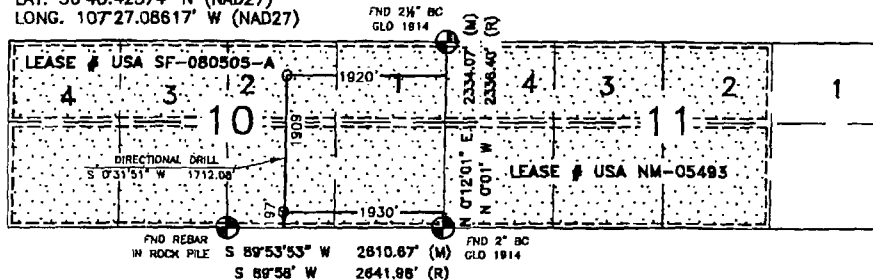
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	10	28N	6W		197'	SOUTH	1930'	EAST	RIO ARriba

*Dedicated Acres MV 283.40 Acres SEC. 10 ALL DK 353.83 Acres E/2 SEC 10 W/2 SEC. 11 W/2/E/2 SEC. 11	*Joint or Infill	*Consolidation Code	*Order No.
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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

18

SURFACE LOCATION  
LAT. 36.67377° N (NAD83)  
LONG. 107.45204° W (NAD83)  
LAT. 36°40.42574' N (NAD27)  
LONG. 107°27.08617' W (NAD27)



BOTTOM HOLE  
LAT. 36.66907° N (NAD83)  
LONG. 107.45209° W (NAD83)  
LAT. 36°40.14374' N (NAD27)  
LONG. 107°27.08917' W (NAD27)

## 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 or a compulsory pooling order heretofore entered by the division.

*Tracey N. Monroe* 8/18/09  
Signature Date

Tracey N. Monroe

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.

APRIL 23, 2009

Date of Survey

Signature and Seal of Professional Surveyor:

*David R. Russell*  
DAVID R. RUSSELL  
NEW MEXICO  
REGISTERED PROFESSIONAL LAND SURVEYOR  
10201  
DAVID RUSSELL  
Certificate Number 10201

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 26 2009

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Bureau of Land Management  
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number SF-080505-A Unit Reporting Number NMNM78412C-DK/NMNM78412A-MV	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 28-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700	8. Farm or Lease Name  9. Well Number 117N	
4. Location of Well Surf: Unit J(NWSE), 1547' FSL & 1741' FEL Bottomhole: Unit O(SWSE), 197' FSL & 1930' FEL  Surf: Latitude: 36.67277° N (NAD83) Longitude: 107.45143° W Bottomhole: Latitude: 36.66907° N (NAD83) Longitude: 107.45209° W	10. Field, Pool, Wildcat Basin DK/Blanco MV  11. Sec., Twn, Rge, Mer. (NMPM) Sec. 10, T28N, R6W  API # 30-039- 30726	
14. Distance in Miles from Nearest Town 26 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 197'	17. Acres Assigned to Well MV - 283.40 Sec. 10 All DK (R-2948(2)) Sec. 11 Lots 2, 3 & 4, S/2 SW/4 & SW/4 SE/4 Sec. 10 Lots 1 & 2 & S/2 SE/4	
16. Acres in Lease 955.330	18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from San Juan 28-6 Unit 117 (DK)	
19. Proposed Depth 7746'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6413' GL	22. Approx. Date Work will Start BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	
23. Proposed Casing and Cementing Program See Operations Plan attached	24. Authorized by: <u>Crystal Tafuya</u> Crystal Tafuya (Regulatory Technician)	

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE [Signature] DATE 3/25/2009

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

Example Master Plan Type 3

Bond Numbers NMB-000015 and NMB-000089

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

OPERATOR

Drilling operations authorized are subject to compliance with attached "General Requirements".

# RECEIVED

MAR 26 2009

DISTRICT I  
1635 N. French Dr., Hobbs, N.M. 88240

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised October 12, 2005

DISTRICT II  
1301 V. Grand Avenue, Artesia, N.M. 88210

Department of Land Management  
Farmington Field Office  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

## OIL CONSERVATION DIVISION

DISTRICT III  
1600 Rio Brazos Rd., Aztec, N.M. 87410

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

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

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-		<sup>2</sup> Pool Code 71599/72319		<sup>3</sup> Pool Name BASIN DAKOTA/BLANCO MESAVERDE	
<sup>4</sup> Property Code 7462		<sup>5</sup> Property Name SAN JUAN 28-6 UNIT			<sup>6</sup> Well Number 117 N
<sup>7</sup> OGRIID No. 14538		<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			<sup>9</sup> Elevation 6413'

#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	10	28N	6W	2	1547'	SOUTH	1741'	EAST	RIO ARriba

#### <sup>11</sup> Bottom Hole Location if Different From Surface

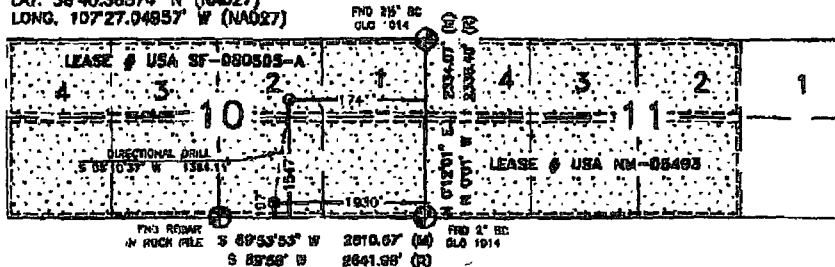
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	10	28N	6W		197'	SOUTH	1930'	EAST	RIO ARriba

<sup>12</sup> Dedicated Acres MV 783.40 Acres SEC. 10 ALL * See Below for DK		<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No. NSP - 2948 (2) DK
--	--	-------------------------------	----------------------------------	--

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

DK - Sec. 11 Lots 2,3 & 4 S/2 SW/4 & SW/4 SE/4  
Sec. 10 Lots 1 & 2 & S/2 SE/4

SURFACE LOCATION  
LAT. 38.67277° N (NAD83)  
LONG. 107.45143° W (NAD83)  
LAT. 38°40.36874' N (NAD27)  
LONG. 107°27.04957' W (NAD27)



BOTTOM HOLE  
LAT. 38.68307° N (NAD83)  
LONG. 107.45208° W (NAD83)  
LAT. 38°40.14374' N (NAD27)  
LONG. 107°27.03917' W (NAD27)

#### <sup>17</sup> 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 undivided 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 or a compulsory pooling order heretofore entered by the division.

*Crystal Tafoya* 5/14/08  
Signature Date  
Crystal Tafoya 5-14-08  
Printed Name

#### <sup>18</sup> 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.

APRIL 25, 2008

Date of Survey

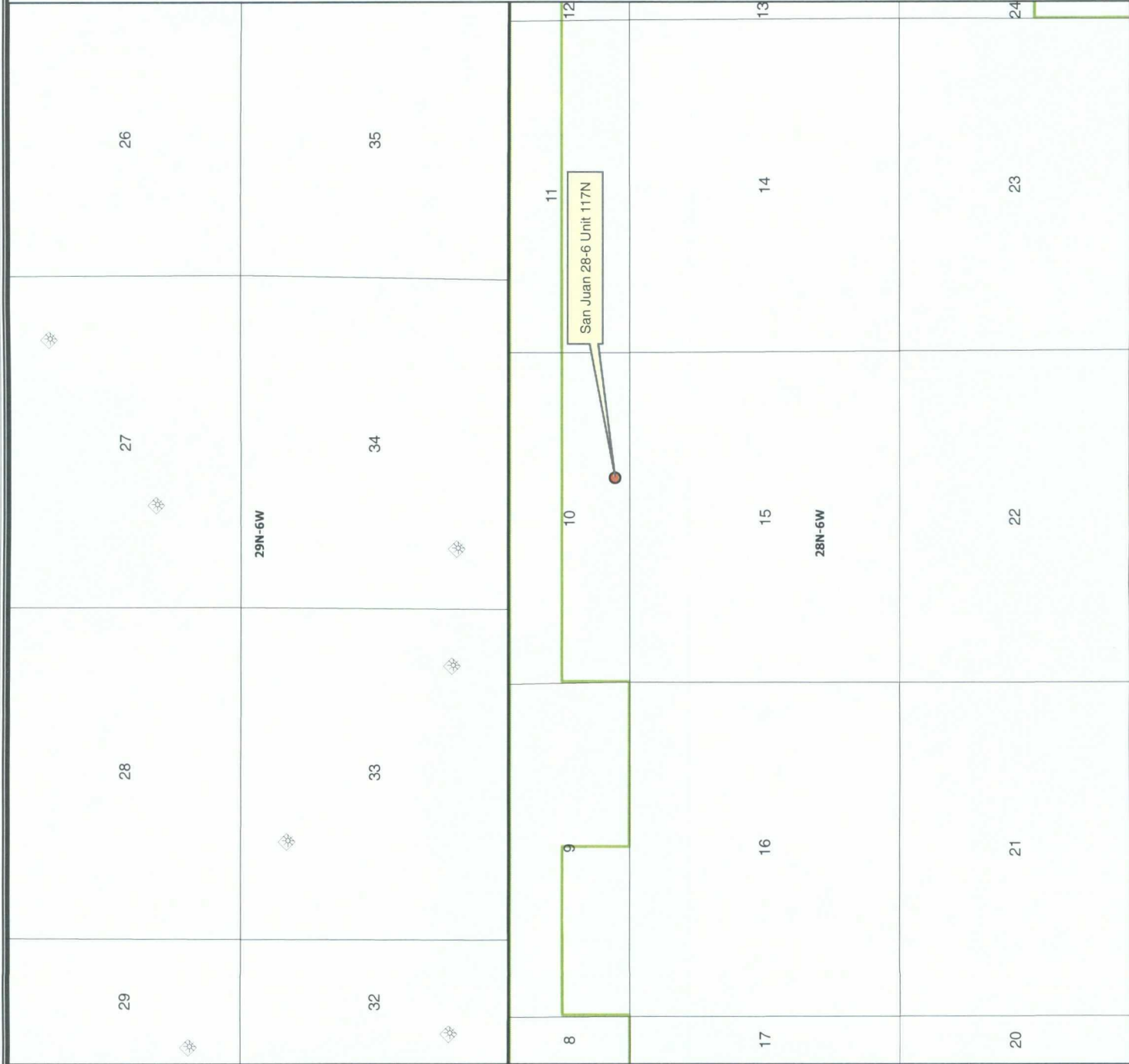
Signature and Seal of Professional Surveyor:

*David R. Russell*  
Seal of David R. Russell, Professional Surveyor, State of New Mexico, No. 10201

DAVID RUSSELL

Certification Number

10201



**Legend**

San Juan 28-6 Unit 117N ship

P2000 Well Headers FORMATION1

MANCOS

MANCOS B

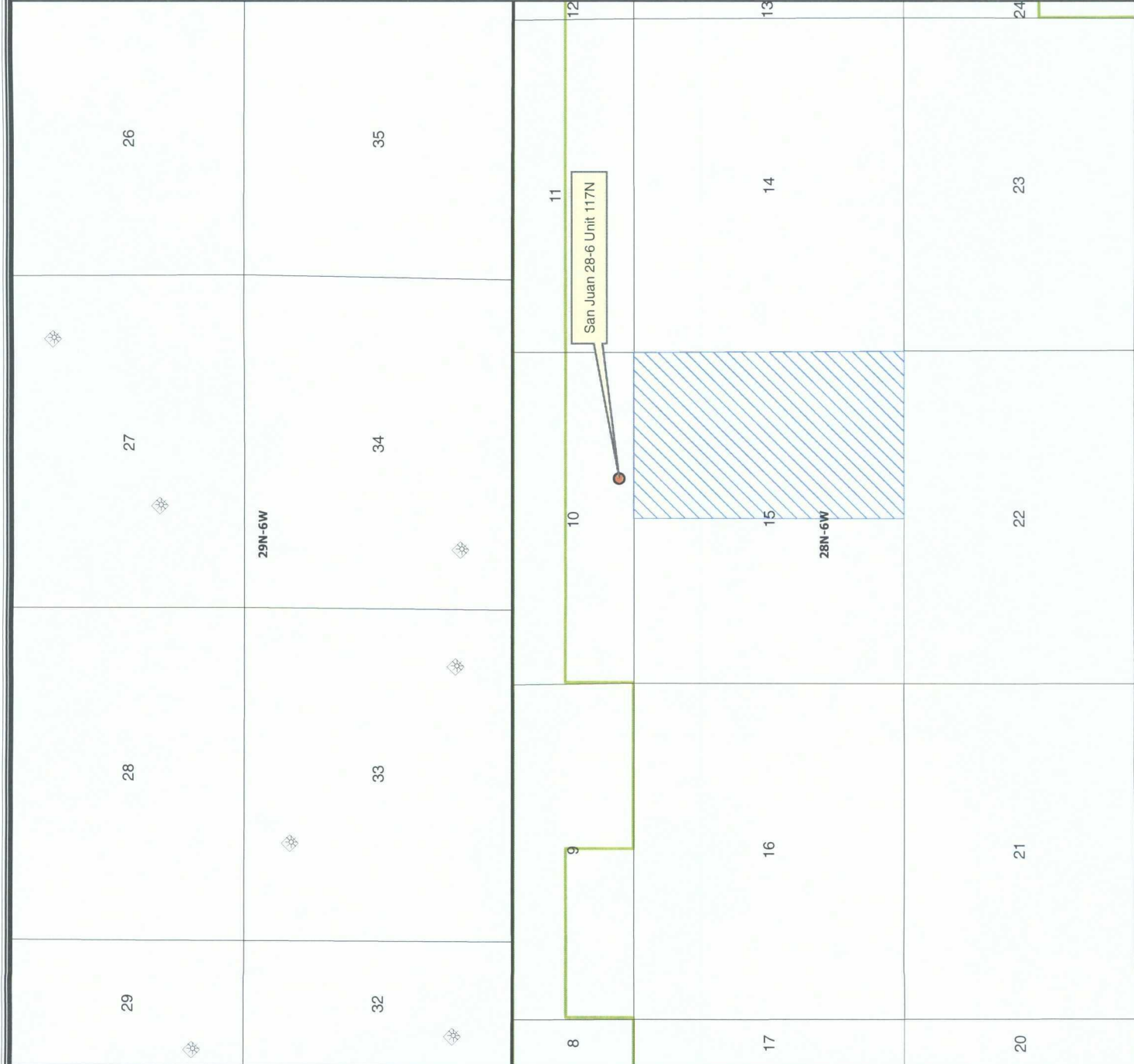
MANCOS / GALLUP



**ConocoPhillips**  
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**San Juan 28-6 Unit 117N**  
**Sec. 10, T28N, R6W**  
**Nine Section Plat**

Author: Richard Davis	Date: 3/10/2010
Compiled by:	Scale:
Project File: Platted Project and Template Template 1.mxd	



**Legend**

San Juan 28-6 Unit 117N ship  
Offset Operator - Four Star O & G Company

**FORMATION1**  
P2000 Well Headers

MANCOS  
MANCOS B  
MANCOS / GALLUP

There are no Mancos wells  
in Section 15. 4-Star owns  
100% below the MVD except  
the DK formation in Section 15



1:33,325  
- 1" equals 2,777'  
GCS Assumed Geographic 1



**ConocoPhillips**  
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**San Juan 28-6 Unit 117N  
Sec. 10, T28N, R6W  
Offset Operator Plat**

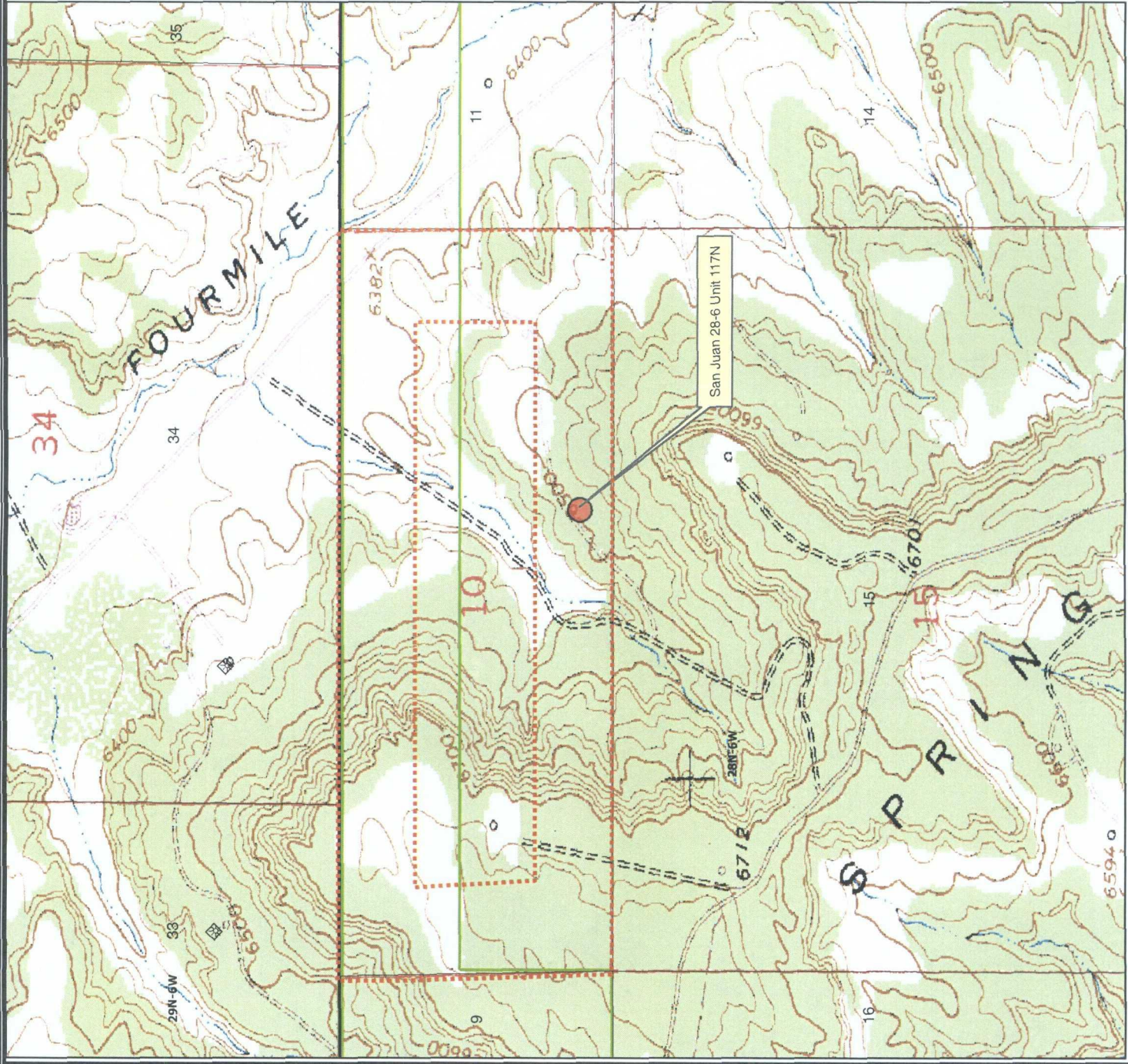
Author: Richard Davis

Date: 3/10/2010

Compiled by:

Scale:

Project File path\dwg\Process\San Juan\San Juan 28-6 Unit 117N.mxd



Legend

San Juan 28-6 Unit 117N Ship

P2000 Well Headers

FORMATION1

MANCOS

MANCOS B

MANCOS / GALLUP

There are no Mancos wells in Section 15. 4-Star owns 100% below the MVD except the DK formation in Section 15



1" equals 1,232'

GCS Assumed Geographic 1



**ConocoPhillips**

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San Juan 28-6 Unit 117N  
Sec. 10, T28N, R6W  
BHL-197 FSL, 1930 FEL  
Topography Plat

Author: Richard Davis

Compiled by:

Project File path: g:\p2000\Process and Template\Template 1.mxd

Date:

Scale: 3/10/2010

**Brooks, David K., EMNRD**

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**From:** Brooks, David K., EMNRD  
**Sent:** Wednesday, March 17, 2010 10:49 AM  
**To:** 'Clugston, Patricia L'  
**Subject:** San Juan 28-6 Unit #117N; NSL Application

Dear Ms. Clugston

I have examined this application, and I have two questions.

First, the certification regarding notice to Four Star Oil & Gas does not comply with the requirements of Rule 15.13.D, which requires that the applicant certify (1) that the noticed party was sent a copy of the application, and (2) that the notice advise that the application may be granted unless a protest is filed with OCD within 20 days after OCD's receipt of the application. I have been somewhat flexible on the first of these requirements, since it seems to me the spirit of the rule has been complied with if the notice furnishes the essential information (proposed location and objective formation) that is contained in the application, even if it does not include copies of everything. Noticed parties can inquire if they need more detailed information. However, the second requirement, I believe, is vital. In this case, your cover letter to For Star may have satisfied these requirements, but since it was not included in the materials submitted, I do not know that. I accordingly request that you file a certification of notice that meets these requirements.

Second, the Mancos is obviously not the "bottom" of this well, and the application does not explain the drilling plan. Does the "bottom hole" location correspond to the actual location at which the well will be completed in the Mancos. If not, we need to know the footage location at which the well penetrates, or will penetrate, the Mancos.

Thanks

David K. Brooks  
Legal Examiner

*Burlington Resources Oil & Gas Company, LP*

P.O. Box 4289  
Farmington, NM 87499

March 15, 2010

Four Star Oil & Gas Company  
Attn: Barbara Nelms  
P.O. Box 2100  
Houston, TX 77252

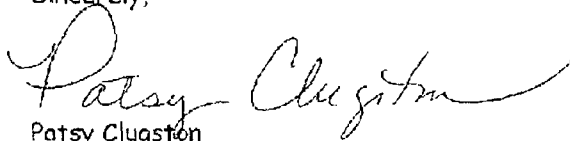
NSL Approval for the SJ 28-6 Unit #117N

Dear Ms. Nelms:

Attached you will find a copy of our NSL (non-standard location) application to the NMOCD office in Santa Fe. And according to NMOCD Rule 104.E(4) be advised that Four Star Oil & Gas Company has a 20 day time frame from the date this notice is received to let the NMOCD know that you have objection to Burlington Resources Oil & Gas, LP completing the SJ 28-6 Unit #117N in the Basin Mancos interval.

Attached is a copy of the NSL application that was originally submitted to the NMOCD. If you are so inclined, please sign the attached waiver and return it to my attention either by mail at the address shown above or by fax @ 505-599-4062. If the 20 day waiting period expires the NMOCD will conclude that your company has no objection and the NSL approval will be granted to Burlington Resources. If you do have objection to the staked location on this well, please advise the NMOCD and us as soon as possible. If you should have questions concerning this application please feel free to call me at 505-326-9518.

Sincerely,



Patsy Clugston  
Sr. Regulatory Specialist  
ConocoPhillips Company

Waiver to NSL - Four Star Oil and Gas Company

Four Star Oil & Gas Company does not object to Burlington Resources Oil & Gas, LP's completing the SJ 28-6 Unit #117N in the Basin Mancos interval also with the Basin Dakota and Blanco Mesaverde. We understand that the only interval that is considered NSL on the well is the Basin Mancos. The well is located at a surface location of Unit J, 1 909 FSL & 1920' FEL, Section 10, T28N, R6W and the bottomhole location is Unit O, 189' FSL and 1947' FEL, Sec. 10, T28N, R6W in San Juan County NM. API is 30-039-30726.

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Company Agent

---

Date

# ConocoPhillips

SJB (NM Central)  
SEC 10-T28N-R6W  
SJ 28-6 #117N

Original Hole

Survey: Actual

## Standard Survey Report

17 February, 2010

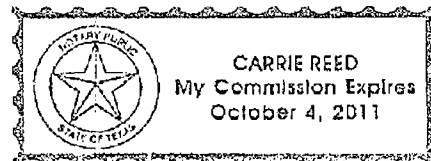
This survey is correct to the best of my knowledge and is supported by actual field data.

*Robert*

Notorized this date 17 of February, 2010.

*Carrie Reed*

Notary Signature  
County of Midland  
State of Texas





Scientific Drilling  
Directional Drilling Operations

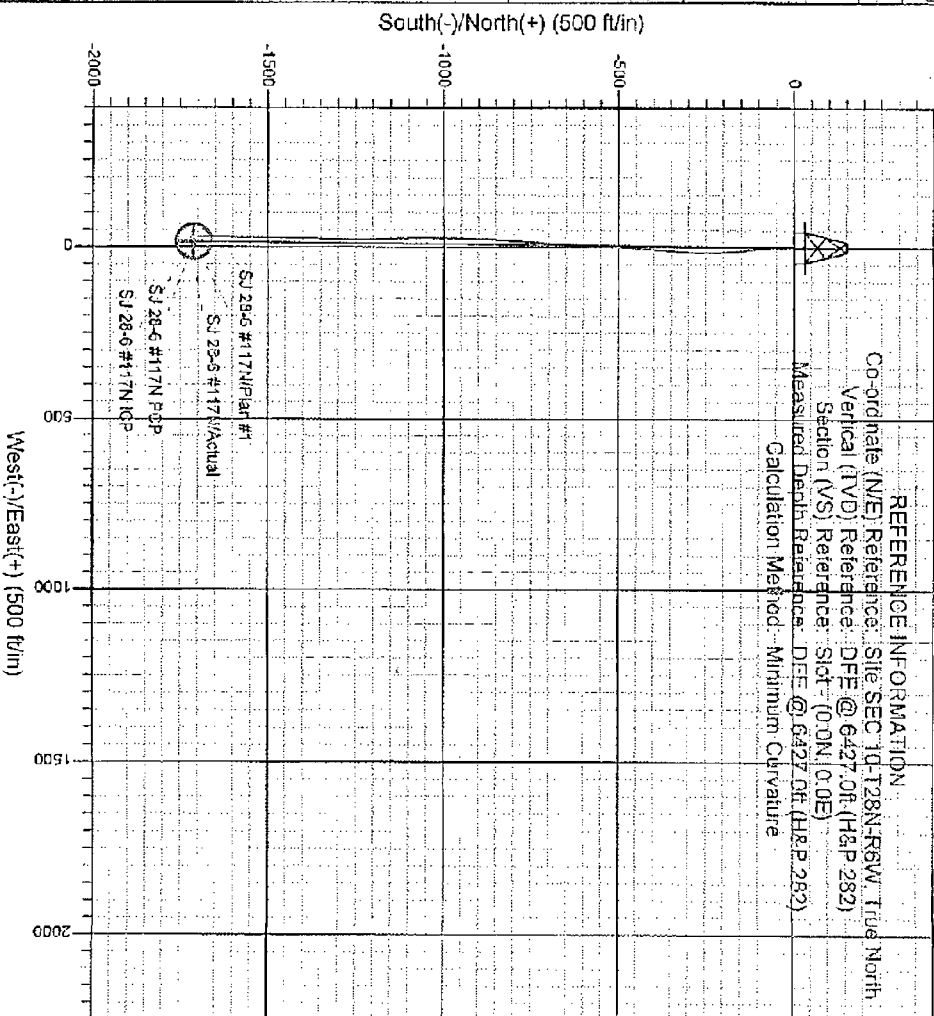
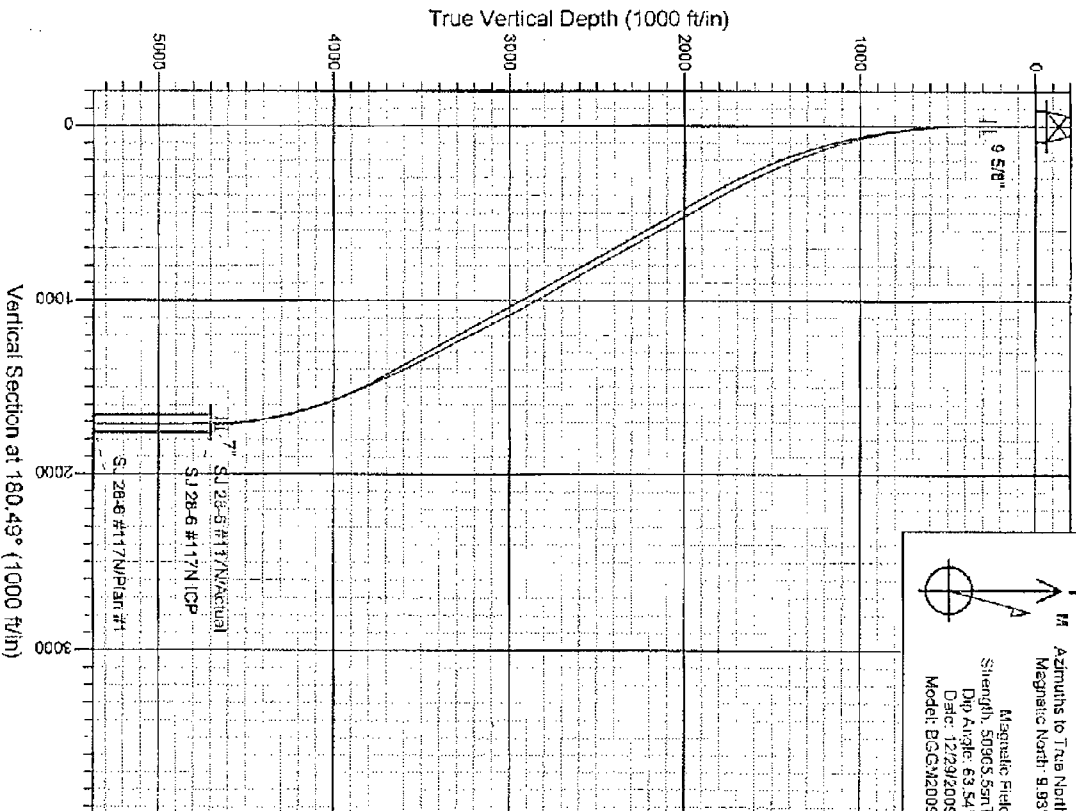
Project: SJB (NM Central)  
Site: SEC 10-T28N-R6W  
Well: SJ 28-6 #1 17N  
Wellbore: Original Hole  
Design: Plan #1

Cofocop Phillips

Azimuths to True North  
Magnetic North: 9.93°  
Magnetic Field  
Strength: 500GS/5mT  
Dip Angle: 65.54°  
Date: 12/29/2009  
Model: BGGM2009

WELL DETAILS: SJ 28-6 #1 17N  
D/E @ 6427.0ft (H&P 282)  
Ground Level: 6411.0  
Easting: 147697.63  
Northing: 2086674.87  
Latitude: 36° 40' 25.544 N  
Longitude: 107° 27' 5.170 W  
Slope

REFERENCE INFORMATION  
Co-ordinate (N/E) Reference: Site SEC 10-T28N-R6W True North  
Vertical (TVD) Reference: D/E @ 6427.0ft (H&P 282)  
Section (VS) Reference: SJC - (0.0N) (0.0E)  
Measured Depth Reference: D/E @ 6427.0ft (H&P 282)  
Calculation Method: Minimum Curvature



COMPANY DETAILS: Cofocop Phillips  
Calculation Method: Minimum Curvature  
Error System: ISCWSA  
Scan Method: Closest Approach 3D  
Error Surface: Combined Covariances  
Warning Method: Risk Ratio

PROJECT DETAILS: SJB (NM Central)  
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico Central 3002  
System Datum: Mean Sea Level

SITE DETAILS: SEC 10-T28N-R6W  
Rio Arriba County NM  
Site Centre Latitude: 36° 40' 25.544 N  
Longitude: 107° 27' 5.170 W  
Positional Uncertainty: 0.0  
Convergence: -0.72  
Local North: True

**Scientific Drilling International, Inc.**  
Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 28-6 #117N
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6427.0ft (H&P 282)
Site:	SEC 10-T28N-R6W	MD Reference:	DFE @ 6427.0ft (H&P 282)
Well:	SJ 28-6 #117N	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	edmCOP

Project:	SJB (NM Central), New Mexico, S-Type MV/DK Wells		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico Central 3002		Using geodetic scale factor

Site:	SEC 10-T28N-R6W		
Site Position:		Northing:	2,060,674.87 ft
From:	Lat/Long	Easting:	147,667.63 ft
Position Uncertainty:	0.0 ft	Slot Radius:	6-1/8"
		Grid Convergence:	-0.72 °

Well:	SJ 28-6 #117N, S-Type MV/DK Well		
Well Position	+N-S	0.0 ft	Northing: 2,060,674.87 ft
	+E-W	0.0 ft	Easting: 147,667.63 ft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Ground Level:	6,411.0 ft

Wellbore:	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	BGGM2009	12/29/2008	9.93
			Dip Angle
			63.54
			Field Strength
			50,806

Design:	Original Hole		
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
			180.91

Survey Program	Date: 2/17/2010		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
364.0	5,050.0	Actual (Original Hole)	MWD SDI
			Description
			MWD - Standard ver 1.0.1

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
364.0	0.48	221.90	364.0	-1.1	-1.0	1.2	0.13	0.13	0.00
394.0	0.67	166.01	394.0	-1.4	-1.1	1.4	1.88	0.63	-186.30
425.0	1.17	194.41	425.0	-1.9	-1.1	1.9	2.14	1.61	91.61
456.0	1.82	173.45	456.0	-2.7	-1.1	2.7	2.71	2.10	-67.61
487.0	2.69	174.69	487.0	-3.9	-1.0	3.9	2.81	2.81	4.00
518.0	3.28	178.57	517.9	-5.5	-0.9	5.5	2.07	1.80	16.74
548.0	3.59	181.39	547.9	-7.3	-0.9	7.3	1.10	1.03	6.07
578.0	4.61	178.38	577.8	-9.4	-0.9	9.5	3.47	3.40	-10.03
608.0	5.13	176.56	607.7	-12.0	-0.8	12.0	1.81	1.73	-6.07
639.0	6.47	180.80	638.5	-14.8	-0.7	14.8	1.67	1.10	13.68
670.0	8.10	179.06	669.4	-10.0	-0.7	18.0	2.11	2.03	-5.61
700.0	6.96	177.83	699.2	-21.4	-0.6	21.4	2.90	2.87	-4.10

# Scientific Drilling International, Inc.

## Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 28-G #117N
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6427.0N (H&P 282)
Site:	SEC 10-T26N-R6W	MD Reference:	DFE @ 6427.0N (H&P 282)
Well:	SJ 28-G #117N	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	edmCOP

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
731.0	7.35	178.23	729.9	-25.2	-0.5	25.2	1.27	1.28	1.29	
761.0	8.31	179.23	759.7	-29.3	-0.4	29.3	3.24	3.20	3.50	
791.0	8.87	177.02	789.3	-33.8	-0.3	33.8	2.18	1.87	-7.53	
822.0	9.43	178.40	819.9	-38.7	0.0	38.7	1.83	1.81	-2.00	
871.0	10.79	178.02	868.2	-47.3	0.8	47.3	2.78	2.78	-0.78	
916.0	12.09	177.56	912.3	-58.2	1.1	56.2	2.97	2.89	3.42	
961.0	13.31	175.82	958.2	-66.1	1.6	66.1	2.64	2.71	-3.87	
1,006.0	13.86	174.94	999.9	-76.6	2.5	76.6	1.26	1.20	-1.96	
1,061.0	14.84	173.09	1,043.5	-87.7	3.7	87.6	2.42	2.20	-4.11	
1,096.0	16.23	174.48	1,086.9	-99.7	5.0	99.6	3.20	3.09	3.09	
1,141.0	17.50	173.89	1,129.9	-112.7	6.3	112.6	2.87	2.82	-1.78	
1,186.0	18.90	171.37	1,172.7	-126.6	8.2	126.5	3.50	3.11	-5.18	
1,231.0	20.09	173.30	1,215.1	-141.5	10.1	141.3	3.01	2.84	4.29	
1,276.0	21.15	173.23	1,257.2	-157.2	12.0	157.0	2.38	2.36	-0.18	
1,321.0	22.04	175.65	1,299.1	-173.7	13.6	173.5	2.80	1.98	5.38	
1,366.0	22.48	175.18	1,340.7	-190.7	15.0	190.4	1.08	1.00	-1.04	
1,410.0	22.96	177.28	1,381.3	-207.7	16.1	207.4	2.13	1.07	4.77	
1,456.0	22.73	178.01	1,423.7	-225.5	16.8	225.2	0.79	-0.50	1.59	
1,500.0	23.64	178.65	1,464.1	-242.8	17.3	242.5	2.15	2.07	1.45	
1,545.0	24.43	182.52	1,506.2	-261.1	17.1	260.8	3.92	1.76	8.60	
1,590.0	24.71	182.13	1,548.2	-279.8	16.4	279.5	0.72	0.62	-0.87	
1,635.0	25.82	183.08	1,586.6	-299.0	15.5	298.7	2.83	2.47	2.41	
1,680.0	26.55	184.57	1,627.2	-318.8	14.2	316.6	2.18	1.62	3.31	
1,725.0	27.49	184.05	1,667.3	-339.2	12.6	339.0	2.15	2.09	-1.18	
1,770.0	28.38	185.05	1,707.1	-360.2	10.9	360.0	2.23	1.98	2.22	
1,815.0	29.07	184.61	1,746.5	-381.8	9.1	381.6	1.80	1.53	-0.98	
1,860.0	28.61	183.70	1,786.0	-403.4	7.6	403.3	1.41	-1.02	-2.02	
1,905.0	29.08	183.86	1,825.4	-425.1	6.1	424.9	1.08	1.04	0.36	
1,950.0	29.04	184.04	1,864.6	-447.2	4.6	447.0	1.70	1.69	0.40	
1,995.0	30.02	184.17	1,903.6	-469.6	3.0	469.5	0.43	0.40	0.29	
2,040.0	29.25	183.13	1,981.8	-514.0	0.2	513.9	1.03	-0.86	-1.16	
2,175.0	28.19	182.98	2,060.7	-557.2	-2.2	557.1	1.18	-1.18	-0.17	
2,265.0	28.85	183.39	2,139.7	-600.1	-4.5	600.1	0.87	0.84	0.46	
2,355.0	28.81	184.20	2,218.6	-643.5	-7.4	643.5	0.46	-0.16	0.90	
2,445.0	28.79	183.40	2,297.4	-688.8	-10.3	688.8	0.43	-0.02	-0.89	
2,535.0	28.58	184.37	2,376.4	-729.9	-13.2	730.0	0.57	-0.23	1.08	
2,625.0	29.33	183.20	2,455.1	-773.4	-16.1	773.5	1.07	0.87	-1.30	
2,715.0	30.16	183.98	2,533.2	-817.9	-18.9	818.1	0.99	0.89	0.87	
2,805.0	31.27	183.33	2,610.5	-863.8	-21.8	864.1	1.29	1.23	-0.72	
2,895.0	30.11	181.82	2,689.0	-909.7	-23.9	910.0	1.55	-1.29	-1.88	
2,985.0	30.22	181.54	2,768.9	-954.8	-25.2	955.2	0.20	0.12	-0.31	
3,075.0	30.37	180.85	2,843.5	-1,000.3	-26.2	1,000.5	0.42	0.17	-0.77	
3,164.0	28.72	179.83	2,921.0	-1,044.2	-26.4	1,044.5	1.94	-1.85	-1.15	
3,209.0	28.10	179.33	2,960.5	-1,065.6	-26.8	1,065.9	1.48	-1.38	-1.11	
3,254.0	27.89	178.20	3,000.3	-1,086.7	-25.8	1,087.0	1.21	-0.24	-2.51	
3,299.0	27.42	178.21	3,040.1	-1,107.7	-25.2	1,107.9	1.27	-1.27	0.02	
3,344.0	27.32	178.04	3,080.1	-1,128.3	-24.5	1,128.8	0.28	-0.22	-0.36	
3,389.0	27.16	177.59	3,120.1	-1,148.9	-23.7	1,149.1	0.58	-0.36	-1.00	
3,434.0	27.32	176.98	3,160.1	-1,169.5	-22.7	1,169.7	0.72	0.36	-1.36	
3,479.0	27.30	177.49	3,200.1	-1,190.1	-21.7	1,190.3	0.52	-0.04	1.13	
3,524.0	27.32	177.73	3,240.0	-1,210.7	-20.9	1,210.9	0.25	0.04	0.53	
3,569.0	26.91	178.93	3,280.1	-1,231.2	-20.3	1,231.4	1.52	-0.91	2.67	
3,614.0	27.90	180.39	3,320.1	-1,251.9	-20.2	1,252.1	2.66	2.20	3.24	
3,658.0	29.46	182.58	3,359.7	-1,273.1	-20.7	1,273.2	4.27	3.55	4.98	

# Scientific Drilling International, Inc.

## Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 28-0 #117N
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6427.0ft (H&P 282)
Site:	SEC 10-T28N-R6W	MD Reference:	DFE @ 6427.0ft (H&P 282)
Well:	SJ 28-0 #117N	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	edmCOP

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,703.0	29.92	182.60	3,397.7	-1,295.3	-21.7	1,295.5	1.02	1.02	0.04	
3,748.0	29.16	182.11	3,436.9	-1,317.5	-22.6	1,317.7	1.73	-1.64	-1.09	
3,793.0	28.64	181.47	3,476.3	-1,339.2	-23.3	1,339.4	1.38	-1.20	-1.42	
3,838.0	27.17	181.35	3,516.1	-1,360.3	-23.8	1,360.6	3.27	-3.27	-0.27	
3,883.0	26.70	180.63	3,556.2	-1,380.7	-24.2	1,380.9	1.27	-1.04	-1.60	
3,929.0	25.66	180.37	3,597.5	-1,401.0	-24.4	1,401.2	2.27	-2.26	-0.57	
3,973.0	25.07	179.99	3,637.2	-1,419.8	-24.4	1,420.0	1.39	-1.34	-0.86	
4,018.0	25.13	182.48	3,678.0	-1,438.0	-24.8	1,439.1	2.35	0.13	5.53	
4,063.0	24.62	182.26	3,718.8	-1,457.8	-25.6	1,458.0	1.15	-1.13	-0.49	
4,108.0	24.72	182.21	3,759.7	-1,476.6	-26.4	1,476.6	0.23	0.22	-0.11	
4,153.0	24.52	181.65	3,800.6	-1,495.3	-27.0	1,495.0	0.68	-0.44	-1.24	
4,198.0	24.17	181.34	3,841.6	-1,513.9	-27.5	1,514.1	0.83	-0.78	-0.69	
4,243.0	22.24	180.58	3,882.9	-1,531.6	-27.8	1,531.8	4.34	-4.29	-1.69	
4,288.0	20.63	178.57	3,924.8	-1,549.0	-27.7	1,548.3	3.95	-3.58	-4.47	
4,333.0	19.52	179.17	3,967.1	-1,569.5	-27.4	1,569.7	2.51	-2.47	1.33	
4,378.0	18.91	181.54	4,009.6	-1,578.3	-27.4	1,578.5	2.20	-1.36	5.27	
4,423.0	18.26	180.92	4,052.2	-1,592.6	-27.7	1,592.9	1.51	-1.44	-1.38	
4,468.0	18.42	181.48	4,095.0	-1,606.8	-28.0	1,607.0	0.53	0.36	1.24	
4,513.0	17.30	180.57	4,137.8	-1,620.6	-28.3	1,620.9	2.56	-2.49	-2.02	
4,558.0	16.01	181.49	4,180.9	-1,633.5	-28.5	1,633.7	2.93	-2.67	2.04	
4,603.0	14.44	180.68	4,224.3	-1,645.3	-28.8	1,645.5	3.52	-3.49	-1.80	
4,648.0	13.59	178.10	4,268.0	-1,656.2	-28.6	1,656.4	2.40	-1.96	-5.73	
4,693.0	13.38	179.57	4,311.7	-1,666.6	-28.4	1,666.9	0.86	-0.40	3.27	
4,738.0	13.19	177.36	4,355.5	-1,677.0	-28.2	1,677.2	1.20	-0.42	-4.91	
4,783.0	11.47	178.71	4,399.5	-1,686.6	-27.8	1,686.8	3.88	-3.82	3.00	
4,828.0	9.79	178.31	4,443.7	-1,694.9	-27.6	1,695.1	3.74	-3.73	-0.89	
4,873.0	8.53	175.75	4,488.2	-1,702.0	-27.2	1,702.2	2.94	-2.80	-5.69	
4,918.0	7.39	174.57	4,532.7	-1,708.2	-26.7	1,708.4	2.68	-2.63	-2.62	
4,963.0	5.49	177.19	4,577.4	-1,713.3	-26.3	1,713.5	4.27	-4.22	5.82	
5,008.0	4.06	191.36	4,622.3	-1,717.0	-26.6	1,717.2	4.10	-3.18	31.49	
5,060.0	4.05	169.99	4,674.1	-1,720.6	-27.2	1,720.8	0.32	-0.02	-4.56	

## Brooks, David K., EMNRD

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**From:** Clugston, Patricia L [Patsy.L.Clugston@conocophillips.com]  
**Sent:** Thursday, March 18, 2010 10:54 AM  
**To:** Brooks, David K., EMNRD  
**Subject:** RE: San Juan 28-6 Unit #117N; NSL Application  
**Attachments:** SJ 28-6 #117N NSL notification ltr.pdf; Directional survey 28-6 117N.pdf

Hi David,

I'm sorry, I should of attached the letter to the Four Star with my application. I have scanned it and a copy of the directional survey for this well. This is a "S" curve directional well, and what this means is that the directional portion of the well is from the surface to the intermediate casing setting depth which is drilled using directional tools. We release the directional company once they are ready to set the intermediate casing and in this case it is approx. 5059'.

We then drill the well vertical from that point forward with air and the well is then surveyed at TD so the actual footages for the top of the pay zones and the TD on a "S" curve directional drill well are in the vertical section and on this well we have calculated this well to be at 187' FSL & 1947' FEL, Sec. 10, T28N, R6W.

Let me know if you need anything else on this well. Thanks. Patsy

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**From:** Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us]  
**Sent:** Wednesday, March 17, 2010 10:49 AM  
**To:** Clugston, Patricia L  
**Subject:** San Juan 28-6 Unit #117N; NSL Application

Dear Ms. Clugston

I have examined this application, and I have two questions.

First, the certification regarding notice to Four Star Oil & Gas does not comply with the requirements of Rule 15.13.D, which requires that the applicant certify (1) that the noticed party was sent a copy of the application, and (2) that the notice advise that the application may be granted unless a protest is filed with OCD within 20 days after OCD's receipt of the application. I have been somewhat flexible on the first of these requirements, since it seems to me the spirit of the rule has been complied with if the notice furnishes the essential information (proposed location and objective formation) that is contained in the application, even if it does not include copies of everything. Noticed parties can inquire if they need more detailed information. However, the second requirement, I believe, is vital. In this case, your cover letter to For Star may have satisfied these requirements, but since it was not included in the materials submitted, I do not know that. I accordingly request that you file a certification of notice that meets these requirements.

Second, the Mancos is obviously not the "bottom" of this well, and the application does not explain the drilling plan. Does the "bottom hole" location correspond to the actual location at which the well will be completed in the Mancos. If not, we need to know the footage location at which the will penetrates, or will penetrate, the Mancos.

Thanks

David K. Brooks  
Legal Examiner

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