

ABOVE THIS LINE FOR DIVISION USE ONLY

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



*Conoco Phillips*  
*San Juan 27-5U 1441*  
*5565*

**ADMINISTRATIVE APPLICATION CHECKLIST**

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]**

[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

2007 JAN 16 PM 3 36

[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

\_\_\_\_\_  
 1/15/07  
 Date

\_\_\_\_\_  
 clugspl@conocophillips.com  
 e-mail Address



January 15, 2007  
Sent Overnight UPS

New Mexico Oil Conservation Division  
NSL Examiner  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Re: San Juan 27-5 Unit #144P  
Unit N (SESW), 1200' FSL & 2370' FWL - Surface; Unit O (SWSE), 574' FSL & 2134' FEL - Bottomhole  
Section 35, T27N, R5W, Rio Arriba County, New Mexico  
API-30-039-29911

Dear Sir:

This is a request for administrative approval for a non-standard gas well location in the Blanco Mesaverde and the Basin Dakota pool. 71599

The subject well, San Juan 27-5 Unit #144P was staked as a directionally drilled well with the bottomhole location at a proposed standard location per Order R-10987-A (MV) and R-10987-B (DK). The well was drilled to within a few feet of the plan, but unfortunately the plan utilized an estimated latitude and longitude for the bottomhole location. This estimated point was first used in a scoping exercise for the initial planning of the project and was never replaced with an actual value later in development of the project. Since the development of the plan for this well, a change in process was developed to put the true bottomhole latitude and longitude on the staking plat (C102) from which the plan is built. Had this procedure been in place prior to the development of the directional plan for this well the estimated value would have been replaced with a true position and the well would not have been drilled as NSL. If a surveyor had been asked to calculate the true bottom hole location for this well (in footages from the south line using the surface hole location and the final directional survey correcting for the non-square section lines) he would have found the well bottomhole target would have been 574' FSL instead of 700' FSL as previously thought.

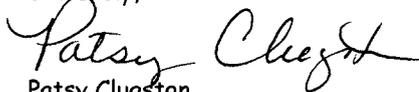
Production from the Basin Dakota is included in 320 S/2 and Blanco Mesaverde is included in the 304.54 E/2 acre gas spacing unit of Section 35, T27N, R05W.

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

1. Approved APD cover page and C102 plat showing location of the well (MV)
2. 9 Section Plan showing wells in the area
3. Offset Operator Plat for Section 35
4. Copy of the directional drill survey showing the final footages with the indication in footages showing as at what point the well became NSL and the footages at TD.

Burlington is the offset operator and 100% WI Owner of the affected Section, the E/2 of Section 2, T26N, R5W, therefore no notification is required. Please let me know if you have any questions about this application at 505-326-9518.

Sincerely,

  
Patsy Clugston  
Sr. Regulatory Specialist

District I  
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

District II  
PO Drawer 00, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

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

2006 MAY 12 AM 9:47 AMENDED REPORT

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039 - 29911		*Pool Code MV-72319 DK-71599		*Pool Name Blanco Mesaverde/ Basin Dakota	
*Property Code 7454		*Property Name SAN JUAN 27-5 UNIT			*Well Number 144P
*OGRID No. 14538		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP			*Elevation 6641'

10 Surface Location

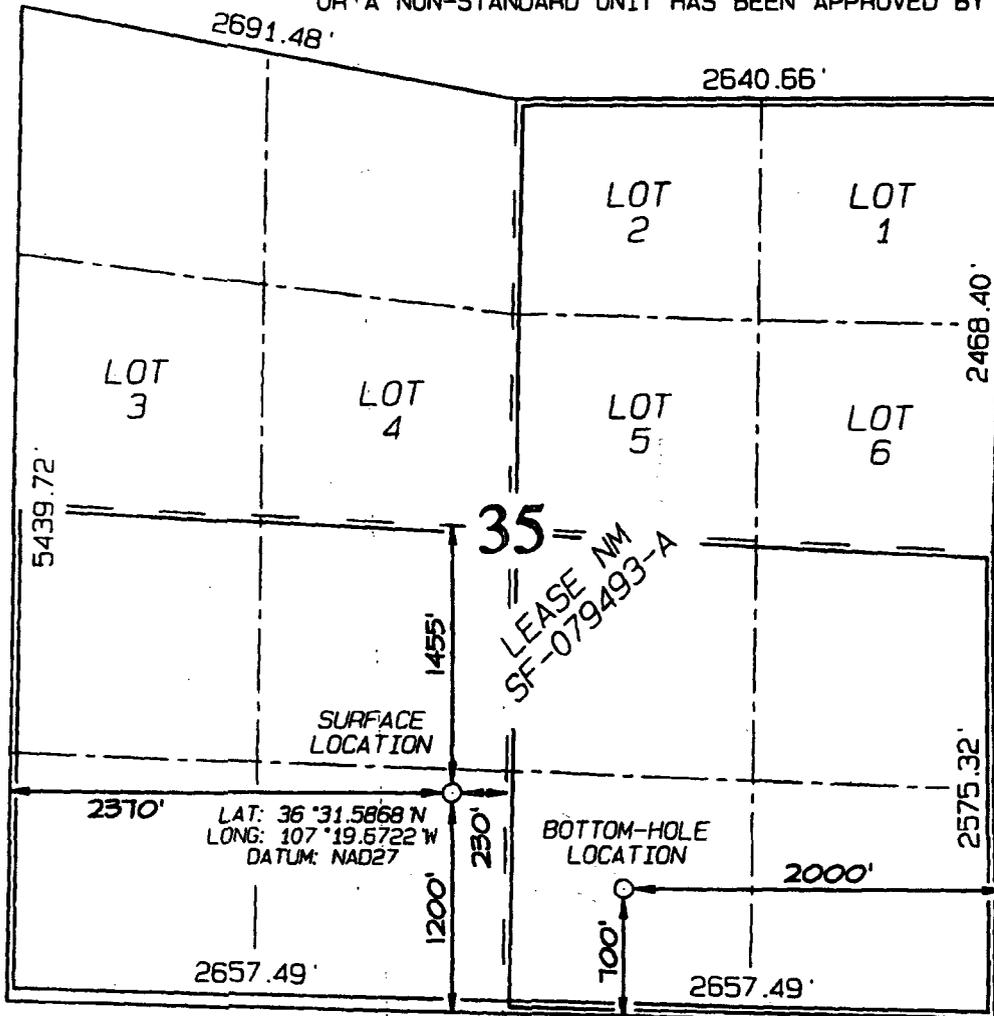
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	35	27N	5W		1200	SOUTH	2370	WEST	RIO ARRIBA

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	35	27N	5W		700	SOUTH	2000	EAST	RIO ARRIBA

*Dedicated Acres MV-304.54 E2 DK-320 S2		*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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

*Philana Thompson*  
Signature  
Philana Thompson  
Printed Name  
Regulatory Associate II  
Title  
August 1, 2005  
Date

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.

Survey Date: JULY 26, 2005  
Signature and Seal of Professional Surveyor



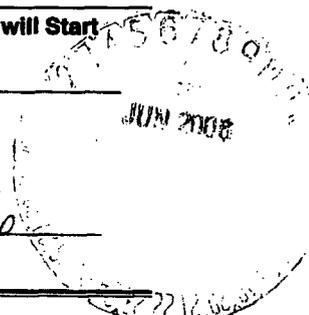
JASON C. EDWARDS  
Certificate Number 15269

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

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work <b>DRILL</b>	2005 MAY 12 AM 9 47	5. Lease Number <b>NMSF-079493-A</b>
1b. Type of Well <b>GAS</b>	RECEIVED GEO FARMINGTON NM	Unit Reporting Number <b>NMNM-0784098-MV NMNM-678409A-DK</b>
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company		6. If Indian, All. or Tribe
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700		7. Unit Agreement Name <b>San Juan 27-5 Unit</b>
4. Location of Well Surface: Unit N (SESW), 1200' FSL, 2370' FWL Bottom: Unit O (SWSE), 700' FSL, 2000' FEL  Latitude 36° 31.5868'N Longitude 107° 19.6722'W		8. Farm or Lease Name  9. Well Number <b>#144P</b>
14. Distance in Miles from Nearest Town 18 miles to Gobernador, NM		10. Field, Pool, Wildcat <b>Blanco Mesaverde/ Basin Dakota</b>
15. Distance from Proposed Location to Nearest Property or Lease Line 1200'		11. Sec., Twn, Rge, Mer. (NMPM) <b>Sec. 35, T27N, R5W</b>
16. Acres in Lease		API # <b>30-039-29911</b>
17. Acres Assigned to Well MV 304.54 E2/ DK 320 S2		12. County <b>Rio Arriba</b>
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 690' - San Juan 27-5 Unit #144		13. State <b>NM</b>
19. Proposed Depth 7983'		20. Rotary or Cable Tools <b>Rotary</b>
21. Elevations (DF, FT, GR, Etc.) 6641' GL		22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Armando Sandoval</u> Regulatory Analyst		Date <u>5-12-06</u>

*N*



PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY [Signature] TITLE APM DATE 6/6/06

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.

**HOLD C164 FOR directional survey**

ALL INFORMATION AUTHORIZED ARE  
 SUBJECT TO CHANGE WITH ATTACHED  
 "GENERAL REGULATIONS".

This action is subject to technical and  
 approval pursuant to 43 CFR 3165.3  
 and 43 CFR 3165.4

**NMOC**  
*[Signature]*





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

SUBMIT IN... (See other instructions on reverse side)

FOR APPROVED  
OMB NO. 1004-0137

Expires: December 31, 1991

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WEL  GAS WEL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEE P-EN  PLUG BACK  DIFF. RESVR  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Burlington Resources

3. ADDRESS AND TELEPHONE NO.  
PO BOX 4289, Farmington, NM 87499 (505) 326-9700

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface Unit N (SESW) 1200' FSL & 2370' FWL  
At top prod. interval reported below Unit O (SWSE) 574' FSL & 2134' FEL  
At total depth Unit O (SWSE) 574' FSL & 2134' FEL

5. LEASE DESIGNATION AND SERIAL NO.  
NMSF-079493-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
San Juan 27-5 Unit

8. FARM OR LEASE NAME, WELL NO.  
San Juan 27-5 Unit 144P

9. API WELL NO.  
30-039-29911

10. FIELD AND POOL, OR WILDCAT  
Blanco M/Basin DK

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 35, T27N, R05W, NMPM

12. COUNTY OR PARISH  
Rio Arriba

13. STATE  
New Mexico

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

15. DATE SPUNDED  
9/22/06

16. DATE T.D. REACHED  
10/7/06

17. DATE COMPL. (Ready to prod.)  
11/27/06

18. ELEVATIONS (DF, RKB, RT, BR, ETC.)\*  
GL-6641'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD  
TMD-7975' TVD-7806'

21. PLUG, BACK T.D., MD & TVD  
TMD-7973' TVD-7804'

22. IF MULTIPLE COMPL., HOW MANY\*  
2

23. INTERVALS DRILLED BY  
Yes

24. PRODUCTION INTERVAL (S) OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\*  
Basin Dakota 7737' - 7928'

25. WAS DIRECTIONAL SURVEY MADE  
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN  
CBL/GR/CCL Log

27. WAS WELL CORED  
No

**28. CASING RECORD (Report all strings set in well)**

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9 5/8"	32.3# H-40	340'	12 1/4"	Surface: 260 sx (345 cf)	62 bbbs
7"	23# L-80	3823'	8 3/4"	Surface: 551 sx (1183 cf) DV tool set @ 2957'	105 bbbs
4 1/2"	11.5# L-80	7973'	6 1/4"	TOC 2800'; 303 sx (610 cf)	

**29. LINER RECORD**

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

**30. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7876'	
4.7# L-80		

**31. PERFORATION RECORD (Interval, size and number)**

Dakota @ .34" holes

7866' - 7928' = 2 spf = 44 Holes

7737' - 7850' = 1 spf = 20 Holes

**Total = 64 Holes**

**32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7737' - 7928'	Pump 10 bbbs of 15% HCL. Frac w/ 95760 gal Slickwater N2 Foam w/ 40000# 20/40 Brady sand

**33. PRODUCTION**

DATE FIRST PRODUCTION  
SI

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  
Flow

WELL STATUS (Producing or shut-in)  
SI

DATE OF TEST  
11/21/06

HOURS TESTED  
3

CHOKE SIZE  
2"

PROD'N FOR TEST PERIOD  
OIL-BBL  
GAS-MCF  
WATER-BBL  
GAS-OIL RATIO

50 mcf

FLOW, TUBING PRESS.  
SITP - 741#

CASING PRESSURE  
SICP - 681#

CALCULATED 24-HOUR RATE  
OIL-BBL  
GAS-MCF  
WATER-BBL  
OIL GRAVITY-API (CORR.)

400 mcf/d  
1 BWP

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
To be sold

TEST WITNESSED BY

35. LIST OF ATTACHMENTS  
This is a commingled Mesaverde/Dakota well per DHC #2363 AZ. Will file for NSL.

W/. Thereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Sandra Roland TITLE Regulatory Technician DATE 12/14/06

\*(See Instructions and Spaces for Additional Data on Reverse Side)

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

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

SUBMIT IN DATE  
(See other instructions on reverse side)

FOR APPROVED  
OMB NO. 1004-0137  
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.  
**NMSF-079493-A**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
**San Juan 27-5 Unit**

8. FARM OR LEASE NAME, WELL NO.  
**San Juan 27-5 Unit 144P**

9. API WELL NO.  
**30-039-29911**

10. FIELD AND POOL, OR WILDCAT  
**Blanco MV/Basin DK**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec. 35, T27N, R05W, NMPM**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEE P-EN  PLUG BACK  DIFF. RESVR  Other \_\_\_\_\_

2. NAME OF OPERATOR  
**Burlington Resources**

3. ADDRESS AND TELEPHONE NO.  
**PO BOX 4289, Farmington, NM 87499 (505) 326-9700**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface **Unit N (SESW) 1200' FSL & 2370' FWL**  
At top prod. interval reported below **Unit O (SWSE) 574' FSL & 2134' FEL**  
At total depth **Unit O (SWSE) 574' FSL & 2134' FEL**

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

12. COUNTY OR PARISH **Rio Arriba** 13. STATE **New Mexico**

15. DATE SPUNDED **9/22/06** 16. DATE T.D. REACHED **10/7/06** 17. DATE COMPL. (Ready to prod.) **11/27/06** 18. ELEVATIONS (DF, RKB, RT, BR, ETC.) **GL-6641'** 19. ELEV. CASINGHEAD \_\_\_\_\_

20. TOTAL DEPTH, MD & TVD **TMD-7975' TVD-7806'** 21. PLUG, BACK T.D., MD & TVD **TMD-7973' TVD-7804'** 22. IF MULTIPLE COMPL., HOW MANY\* **2** 23. INTERVALS DRILLED BY **Yes** ROTARY TOOLS \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_

24. PRODUCTION INTERVAL (S) OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\* **Blanco Mesaverde 5092' - 6036'** 25. WAS DIRECTIONAL SURVEY MADE **Yes**

26. TYPE ELECTRIC AND OTHER LOGS RUN **CBL/GR/CCL Log** 27. WAS WELL CORED **No**

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9 5/8"	32.3# H-40	340'	12 1/4"	Surface: 260 sx (345 cf)	62 bbls
7"	23# L-80	3823'	8 3/4"	Surface: 551 sx (1183 cf) DV tool set @ 2957'	105 bbls
4 1/2"	11.5# L-80	7973'	6 1/4"	TOC 2900'; 303 sx (610 cf)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7876'	
4.7# L-80		

31. PERFORATION RECORD (Interval, size and number)

**Mesaverde @ .34" holes**  
PTL 5546' - 6036' = 1 spf = 27 Holes  
Men/CH 5092' - 5462' = 1 spf = 30 Holes

**Total = 57 Holes**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5546' - 6036'	Pump 10 bbls of 15% HCL. Frac w/ 47838 gal Slickwater N2 Foam w/ 100000# 20/40 Brady sand & 1161800 scf N2
5092' - 5462'	Pump 10 bbls of 15% HCL. Frac w/ 45318 gal Slickwater N2 Foam w/ 100000# 20/40 Brady sand & 1129900 scf N2

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
SI	Flow	SI

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PRODN FOR TEST PERIOD	OIL-BBL	GAS-MCF	WATER-BBL	GAS-OIL RATIO
11/22/06	3	2"	→		128 mcf		

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL	GAS-MCF	WATER-BBL	OIL GRAVITY-API (CORR.)
SITP - 741#	SICP - 681#	→		1027 mcfd	1/4 BWPH	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **To be sold** TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS **This is a commingled Mesaverde/Dakota well per DHC #2363 AZ. Will file for NSL.**

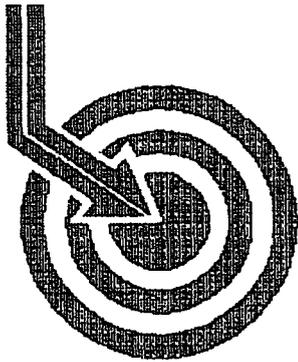
W/ I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Kandis Koland TITLE **Regulatory Technician** DATE **12/14/06**

\*(See Instructions and Spaces for Additional Data on Reverse Side)

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 representations as to any matter within its jurisdiction.

ROUND JAMES OT  
OIL CONS. DIV.  
DIST. 3



# Scientific Drilling

30-089-29911

## BURLINGTON RESOURCES

Field: San Juan  
Site: Rio Arriba County, NM  
Well: San Juan 27-5 #144P  
Wellpath: VH - Job #32D0906737  
Survey: 09/10/06-09/27/06

Surface 1200/S 2370/W  
Int. TD 574/S 2095/E

HOLD C184 FOR NSL

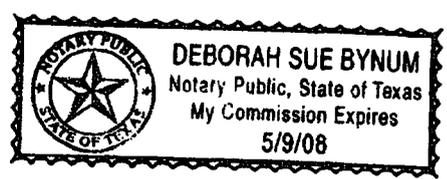
This survey is correct to the best of my knowledge and is supported by actual field data.

.....Richard..... Company Representative

Notorized this date 2nd of December, 2006.

Deborah Sue Bynum

Notary Signature  
County of Midland  
State of Texas



*Handwritten initials*



# Scientific Drilling International Survey Report

<b>Company:</b> BURLINGTON RESOURCES	<b>Date:</b> 11/29/2006	<b>Time:</b> 15:17:35	<b>Page:</b> 1
<b>Field:</b> San Juan	<b>Co-ordinate(NE) Reference:</b>	<b>Site:</b> Rio Arriba County, NM, Grid North	
<b>Site:</b> Rio Arriba County, NM	<b>Vertical (TVD) Reference:</b>	<b>SITE 0.0</b>	
<b>Well:</b> San Juan 27-5 #144P	<b>Section (VS) Reference:</b>	<b>Well (0.00N,0.00E,129.10Azi)</b>	
<b>Wellpath:</b> VH - Job #32D0906737	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db: Sybase</b>

<b>Survey:</b> 09/10/08-09/27/08	<b>Start Date:</b>	<b>09/10/2006</b>
<b>E-field 0'-3833'</b>	<b>Engineer:</b>	<b>Calvert/Lowe/Heikkinen/Stalzer</b>
<b>Company:</b> Scientific Drilling Internatio	<b>Tied-to:</b>	<b>From Surface</b>
<b>Tool:</b> E-field;E-field		

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ChD ft	ChA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
395.00	0.10	212.69	395.00	0.04	-0.29	-0.19	0.03	0.34	212.69
426.00	1.08	127.81	426.00	0.33	-0.49	0.03	3.47	0.49	176.51
457.00	2.02	127.00	456.99	1.17	-1.00	0.70	3.03	1.22	145.11
488.00	3.41	124.80	487.95	2.64	-1.85	1.89	4.50	2.65	134.45
518.00	4.49	130.97	517.88	4.70	-3.13	3.51	3.88	4.71	131.78
549.00	5.54	133.72	548.76	7.40	-4.96	5.51	3.47	7.41	132.03
579.00	6.57	135.35	578.59	10.55	-7.19	7.76	3.48	10.58	132.80
610.00	7.33	130.57	609.38	14.29	-9.73	10.51	3.08	14.32	132.81
641.00	8.27	133.41	640.08	18.49	-12.55	13.63	3.28	18.53	132.64
672.00	9.32	132.12	670.71	23.22	-15.77	17.11	3.45	23.27	132.66
703.00	9.86	131.54	701.28	28.38	-19.21	20.96	1.77	28.43	132.51
734.00	11.18	131.57	731.76	34.04	-22.97	25.20	4.28	34.09	132.35
765.00	12.29	131.48	762.11	40.34	-27.15	29.92	3.58	40.40	132.22
796.00	13.36	130.42	792.34	47.21	-31.65	35.12	3.53	47.28	132.03
827.00	14.36	129.23	822.43	54.64	-36.41	40.82	3.35	54.70	131.73
859.00	15.16	125.32	853.38	62.78	-41.34	47.31	3.99	62.82	131.15
890.00	15.81	126.66	883.25	71.05	-46.20	54.00	2.39	71.07	130.55
922.00	16.80	124.14	913.96	80.01	-51.40	61.33	3.80	80.02	129.97
953.00	17.62	124.40	943.58	89.15	-56.56	68.91	2.66	89.15	129.38
985.00	18.42	125.37	974.01	99.02	-62.23	77.03	2.67	99.02	128.93
1017.00	19.21	124.56	1004.30	109.31	-68.14	85.48	2.60	109.32	128.56
1048.00	19.73	127.16	1033.52	119.63	-74.19	93.86	3.26	119.64	128.33
1080.00	20.23	130.17	1063.60	130.56	-81.03	102.39	3.57	130.57	128.36
1142.00	20.75	131.60	1121.68	152.25	-85.23	118.79	1.16	152.25	128.72
1205.00	21.34	129.33	1180.48	174.86	-109.91	136.00	1.80	174.86	128.94
1269.00	21.95	127.39	1239.96	198.48	-124.55	154.52	1.47	198.47	128.87
1333.00	21.39	131.28	1299.44	222.08	-139.52	172.79	2.41	222.08	128.92
1398.00	21.83	133.37	1358.02	245.25	-155.14	189.94	1.41	245.25	129.24
1459.00	21.83	131.73	1416.50	268.63	-170.98	207.20	0.97	268.63	129.53
1520.00	22.14	133.46	1473.06	291.42	-186.44	224.00	1.18	291.44	129.77
1584.00	21.97	128.11	1532.39	315.42	-202.12	242.18	3.15	315.44	129.85
1645.00	20.80	125.92	1589.19	337.64	-215.52	259.93	2.32	337.66	129.66
1708.00	20.99	126.66	1648.04	360.08	-228.82	278.04	0.52	360.09	129.45
1769.00	21.19	124.21	1704.96	381.98	-241.54	295.92	1.48	381.98	129.22
1831.00	21.63	124.04	1762.68	404.53	-254.24	314.66	0.72	404.53	128.94
1895.00	20.67	125.60	1822.37	427.55	-267.41	333.82	1.74	427.56	128.71
1958.00	20.44	130.55	1881.36	449.65	-281.04	351.02	2.78	449.66	128.68
2020.00	20.82	130.10	1939.39	471.49	-295.17	367.67	0.66	471.50	128.76
2083.00	21.12	129.04	1998.21	494.04	-309.54	385.05	0.77	494.04	128.80
2146.00	21.20	127.78	2056.97	516.77	-323.66	402.87	0.73	516.78	128.78
2210.00	21.24	130.14	2116.63	539.93	-338.23	420.88	1.34	539.94	128.79
2273.00	21.65	133.10	2175.27	562.94	-353.52	438.09	1.84	562.94	128.90
2336.00	21.80	130.85	2233.79	586.22	-369.12	455.43	1.34	586.22	129.02
2398.00	22.11	132.01	2291.30	609.38	-384.46	472.80	0.86	609.38	129.12
2461.00	22.14	131.78	2349.66	633.08	-400.30	490.47	0.15	633.08	129.22
2522.00	22.39	132.66	2408.11	656.16	-415.83	507.58	0.68	656.17	129.33
2585.00	21.57	131.05	2464.53	679.71	-431.57	525.14	1.62	679.72	129.41
2647.00	21.88	129.88	2522.13	702.65	-446.48	542.80	0.86	702.67	129.45



# Scientific Drilling International Survey Report

<b>Company:</b> BURLINGTON RESOURCES	<b>Date:</b> 11/29/2006	<b>Time:</b> 15:17:35	<b>Page:</b> 2
<b>Field:</b> San Juan	<b>Co-ordinate(N/E) Reference:</b>	<b>Site:</b> Rio Arriba County, NM, Grid North	
<b>Site:</b> Rio Arriba County, NM	<b>Vertical (TVD) Reference:</b>	<b>SITE 0.0</b>	
<b>Well:</b> San Juan 27-5 #144P	<b>Section (VS) Reference:</b>	<b>Well (0.00N,0.00E,129.10Azi)</b>	
<b>Wellpath:</b> VH - Job #32D0908737	<b>Survey Calculation Method:</b>	<b>Minimum Curvature</b>	<b>Db: Sybase</b>

**Survey**

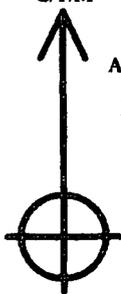
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
2710.00	22.11	130.21	2580.54	726.24	-461.64	560.66	0.41	726.26	129.47
2772.00	21.80	125.37	2638.09	749.30	-475.78	578.88	3.02	749.31	129.42
2834.00	21.40	126.00	2695.78	772.00	-489.35	597.10	1.59	772.00	129.34
2897.00	20.76	126.14	2754.56	794.64	-503.01	615.17	1.47	794.64	129.27
2960.00	19.92	124.68	2813.63	816.49	-515.70	633.02	1.56	816.49	129.17
3023.00	18.79	125.01	2873.07	837.31	-527.63	650.15	1.80	837.31	129.06
3086.00	18.22	127.52	2932.82	857.28	-539.45	666.27	1.55	857.28	129.00
3150.00	17.63	126.01	2993.71	876.96	-551.24	682.05	1.17	876.96	128.95
3212.00	15.19	129.56	3053.18	894.46	-561.94	695.91	4.25	894.46	128.92
3275.00	13.97	131.83	3114.15	910.31	-572.27	707.94	2.14	910.31	128.95
3338.00	13.85	130.93	3175.30	925.44	-582.28	719.30	0.39	925.44	128.99
3401.00	12.15	126.66	3236.69	939.61	-591.36	730.18	2.82	939.61	129.00
3463.00	10.43	126.66	3297.49	951.74	-598.79	739.77	2.84	951.74	128.99
3525.00	10.15	125.57	3358.49	962.80	-605.32	748.72	0.55	962.80	128.95
3589.00	9.35	127.10	3421.56	973.63	-611.73	757.45	1.31	973.63	128.92
3652.00	7.81	126.39	3483.66	983.02	-617.36	764.98	2.45	983.02	128.90
3714.00	5.45	127.27	3545.44	990.17	-621.64	770.72	3.81	990.17	128.89
3777.00	3.20	129.82	3608.25	994.92	-624.58	774.45	3.58	994.92	128.89
3788.00	2.68	133.08	3619.24	995.48	-624.95	774.87	4.96	995.49	128.89
3833.00	0.55	146.42	3664.22	996.74	-625.85	775.76	4.77	996.74	128.90



**Scientific  
Drilling**

Field: San Juan  
Site: Rio Arriba County, NM  
Well: San Juan 27-5 #144P  
Wellpath: VH - Job #32D0906737  
Survey: 09/10/06-09/27/06

G/T/M

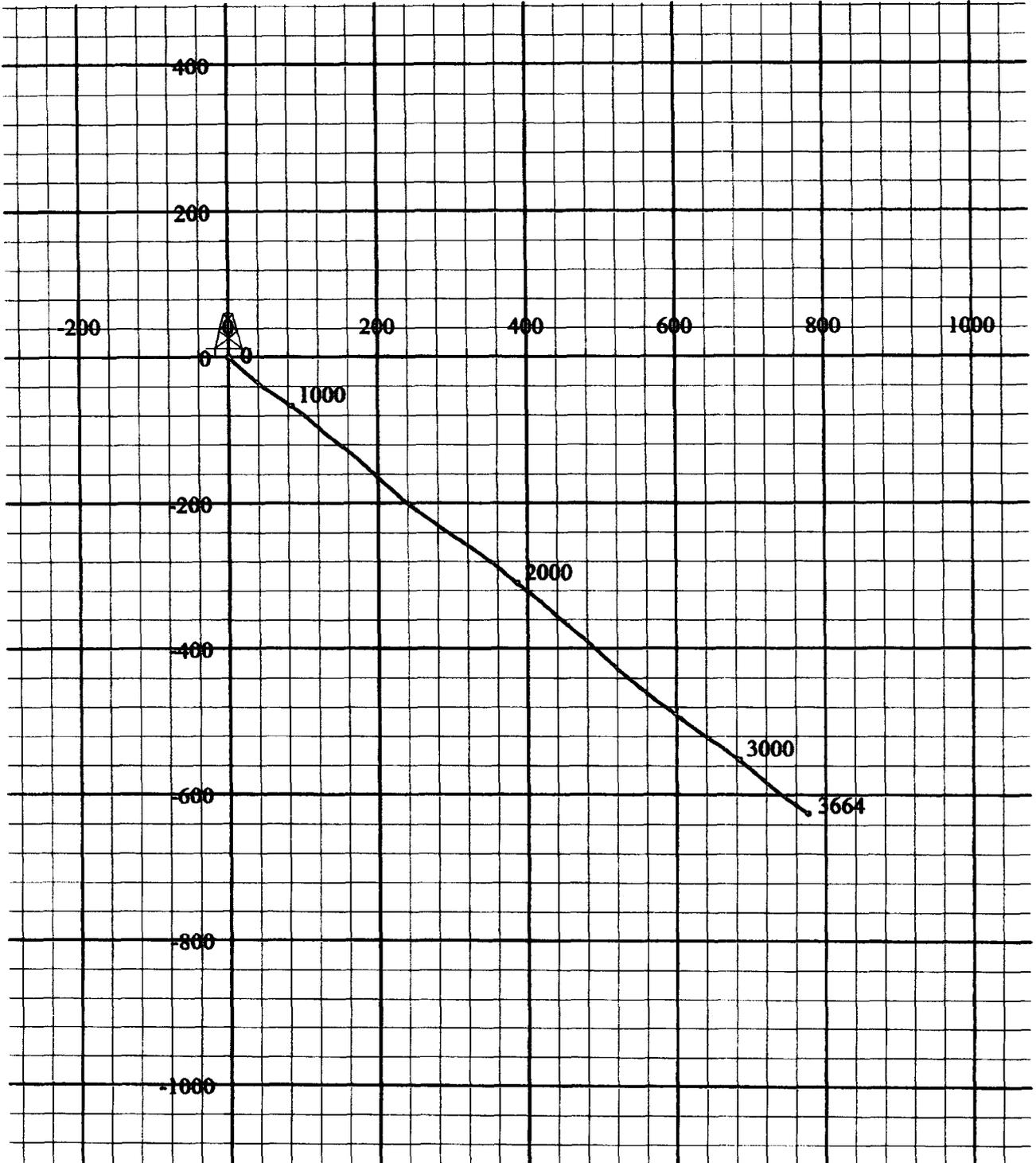


Azimuths to Grid North  
True North: 0.00°  
Magnetic North: 0.00°

Magnetic Field  
Strength: 0nT  
Dip Angle: 0.00°  
Date: 11/29/2006  
Model: igrf2000

West(-)/East(+) [100ft/in]

South(-)/North(+) [100ft/in]



**CDP Deviation Report**

**ConocoPhillips**

**SAN JUAN 27-5 UNIT #144P**

<b>Operator</b> BURLINGTON RESOURCES O&G CO LP	<b>Legal WellName</b> SAN JUAN 27-5 UNIT #144P	<b>API / UWI</b> 3003929911	<b>County</b> RIO ARRIBA	<b>State/Province</b> NEW MEXICO
<b>Surface Legal Location</b> NMPM,035-027N-005W	<b>N/S Dist (ft)</b> 1,200.00	<b>N/S Ref</b> S	<b>E/W Dist (ft)</b> 2,370.00	<b>E/W Ref</b> W

<b>Survey Date</b>	<b>MD (ft)</b>	<b>MD (ft)</b>	<b>Notes</b>	<b>SPRNG/COMP</b>
9/22/2006	0.00	0.00		
9/22/2006	97.00	0.25	TC	
9/22/2006	329.00	0.75	TC	
9/24/2006	395.00	0.10	MD	
9/24/2006	426.00	1.08	MD	
9/24/2006	457.00	2.02	MD	
9/24/2006	488.00	3.41	MD	
9/24/2006	518.00	4.49	MD	
9/24/2006	549.00	5.54	MD	
9/24/2006	579.00	6.57	MD	
9/24/2006	610.00	7.33	MD	
9/24/2006	641.00	8.27	MD	
9/24/2006	672.00	9.32	MD	
9/24/2006	703.00	9.86	MD	
9/24/2006	734.00	11.18	MD	
9/24/2006	765.00	12.29	MD	
9/24/2006	796.00	13.36	MD	
9/24/2006	827.00	14.36	MD	
9/24/2006	859.00	15.16	MD	
9/24/2006	890.00	15.81	MD	
9/24/2006	922.00	16.80	MD	
9/24/2006	953.00	17.62	MD	
9/24/2006	985.00	18.42	MD	
9/24/2006	1,017.00	19.21	MD	
9/24/2006	1,048.00	19.73	MD	
9/24/2006	1,080.00	20.23	MD	
9/24/2006	1,142.00	20.75	MD	
9/24/2006	1,205.00	21.34	MD	
9/25/2006	1,269.00	21.95	MD	
9/25/2006	1,333.00	21.39	MD	
9/25/2006	1,396.00	21.83	MD	
9/25/2006	1,459.00	21.83	MD	
9/25/2006	1,520.00	22.14	MD	
9/25/2006	1,584.00	21.97	MD	
9/25/2006	1,645.00	20.80	MD	

RCVD JAN5'07  
OIL CONS. DIV.  
DIST. 3

I, the undersigned, certify that I acting in my capacity as Drilling Engineer for ConocoPhillips Company, am authorized by said company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.



Subscribed and sworn to me this 1/5/07  
Patricia L. Choy

Notary Public in and for San Juan County, New Mexico  
My commission expires 9/15/08

ConocoPhillips

COP Deviation Report  
SAN JUAN 27 UNIT #1449

Survey Date	MD (USD)	MD (C)	MD (M)	Survey Company
9/25/2006	1,708.00	20.99	MD	
9/25/2006	1,769.00	21.19	MD	
9/25/2006	1,831.00	21.63	MD	
9/25/2006	1,895.00	20.67	MD	
9/25/2006	1,958.00	20.44	MD	
9/25/2006	2,020.00	20.82	MD	
9/25/2006	2,083.00	21.12	MD	
9/25/2006	2,146.00	21.20	MD	
9/25/2006	2,210.00	21.24	MD	
9/25/2006	2,273.00	21.65	MD	
9/25/2006	2,336.00	21.80	MD	
9/25/2006	2,398.00	22.11	MD	
9/25/2006	2,461.00	22.14	MD	
9/25/2006	2,522.00	22.39	MD	
9/25/2006	2,585.00	21.57	MD	
9/25/2006	2,647.00	21.88	MD	
9/25/2006	2,710.00	22.11	MD	
9/26/2006	2,772.00	21.60	MD	
9/26/2006	2,834.00	21.40	MD	
9/26/2006	2,897.00	20.76	MD	
9/26/2006	2,960.00	19.92	MD	
9/26/2006	2,992.00	19.73	MD	
9/26/2006	3,023.00	18.79	MD	
9/26/2006	3,054.00	18.48	MD	
9/26/2006	3,086.00	18.22	MD	
9/26/2006	3,150.00	17.63	MD	
9/26/2006	3,212.00	15.19	MD	
9/26/2006	3,275.00	13.97	MD	
9/26/2006	3,338.00	13.85	MD	
9/26/2006	3,401.00	12.15	MD	
9/26/2006	3,463.00	10.43	MD	
9/26/2006	3,525.00	10.15	MD	
9/26/2006	3,589.00	9.35	MD	
9/26/2006	3,652.00	7.81	MD	
9/26/2006	3,714.00	5.45	MD	
9/27/2006	3,777.00	3.20	MWD	
9/27/2006	3,788.00	2.68	MWD	
9/27/2006	3,833.00	0.55	MWD	
9/27/2006	7,949.00	1.00	TOTCO	

RCVD JAN5'07  
OIL CONS. DIV.

DIST. 3

I, the undersigned, certify that I acting in my capacity as Drilling Engineer for ConocoPhillips Company, am authorized by said company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.



Subscribed and sworn to me this 1/5/07

Patricia L. Chest

Notary Public in and for San Juan County, New Mexico

My commission expires 9/15/08

86

### 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.

12 Records found

Displaying Screen 1 of 1

- | <b>API Number</b>  | <b>ULSTR</b> | <b>Footages</b>     |                        |
|--|--------------|---------------------|------------------------|
| <input type="radio"/> 3003906844                           | A-35-27N-5W  | 800 FNL & 990 FEL   | MV                     |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 020  |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003920467                           | K-35-27N-5W  | 1650 FSL & 1840 FWL | DK                     |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 144  |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003920468                           | A-35-27N-5W  | 800 FNL & 800 FEL   | (DK)                   |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 145  |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003920647                           | C-35-27N-5W  | 800 FNL & 1500 FWL  | <del>Per 9/22</del> PC |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 161  |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003920739                           | I-35-27N-5W  | 1450 FSL & 790 FEL  | not listed             |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 159  |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003926066                           | E-35-27N-5W  | 1500 FNL & 1170 FWL | MV                     |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 145M |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003926084                           | I-35-27N-5W  | 1685 FSL & 995 FEL  | (MV)                   |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 144M |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003926291                           | C-35-27N-5W  | 865 FNL & 1505 FWL  | PC                     |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 161R |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003927641                           | M-35-27N-5W  | 675 FSL & 390 FWL   | (MV) DK                |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 144N |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003927642                           | F-35-27N-5W  | 2280 FNL & 2385 FWL | <del>MV, DK</del>      |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 145N |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003929911                           | N-35-27N-5W  | 1200 FSL & 2370 FWL | (MV) DK                |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 144P |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |
| <input type="radio"/> 3003960085                           | K-35-27N-5W  | 1650 FSL & 1650 FWL | PC                     |
| <b>Well Name &amp; Number:</b> SAN JUAN 27 5 UNIT No. 012  |              |                     |                        |
| <b>Operator:</b> BURLINGTON RESOURCES OIL & GAS COMPANY LP |              |                     |                        |