

DISTRICT I
1625 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

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

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

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

AS DRILLED PLAT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34869		*Pool Code 71629		*Pool Name BASIN FRUITLAND COAL	
*Property Code 7238		*Property Name LACKEY A			*Well Number 100
*GRID No. 14538		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			*Elevation 5782'

¹⁰ Surface Location

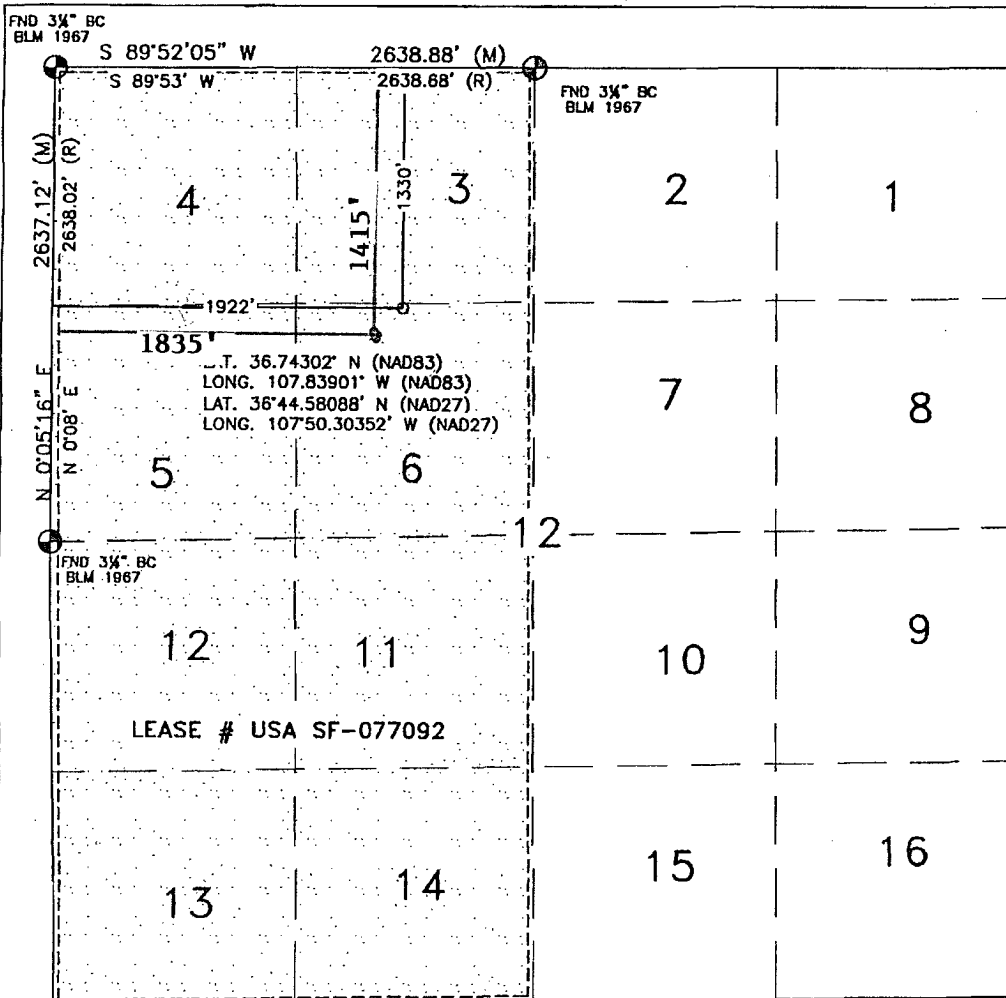
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	12	29N	10W	6	1330'	NORTH	1922'	WEST	SAN JUAN

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
F	12	29N	10W		1415'	NORTH	1835'	WEST	SAN JUAN
¹² Dedicated Acres 315.56 Acres - (W/2)			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. RCVD APR 21 '11 OIL CONS. DIV.		

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 DIST. 3

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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.

Marie E. Jaramillo 4/14/11
Signature Date

Marie E. Jaramillo 4/14/11
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.

MAY 20, 2008

Date of Survey

Signature and Seal of Professional Surveyor:

David R. Russell



DAVID RUSSELL

Certificate Number 10201

RCVD APR 21 '11
OIL CONS. DIV.
DIST. 3

30-045-34869

ConocoPhillips

SJB (NM West)

SEC 12-T29N-10W

Lackey A 100

API# 30-045-34869

Original Hole

Survey: Actual

Standard Survey Report

06 December, 2010

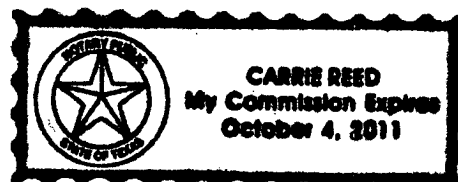
This survey is correct to the best of my knowledge and is supported by actual field data.

R. L. Hartman

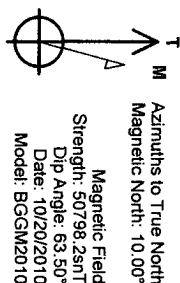
Notorized this date 14 of December, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



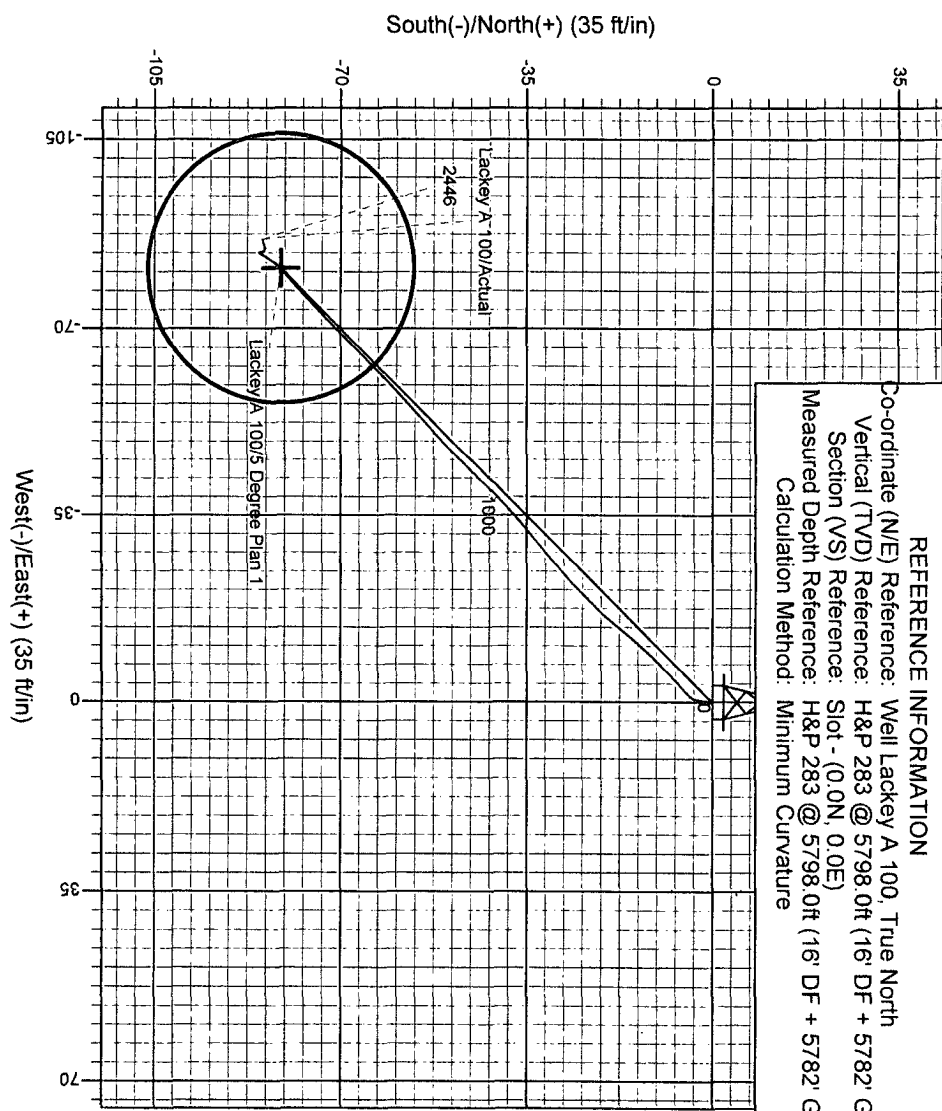
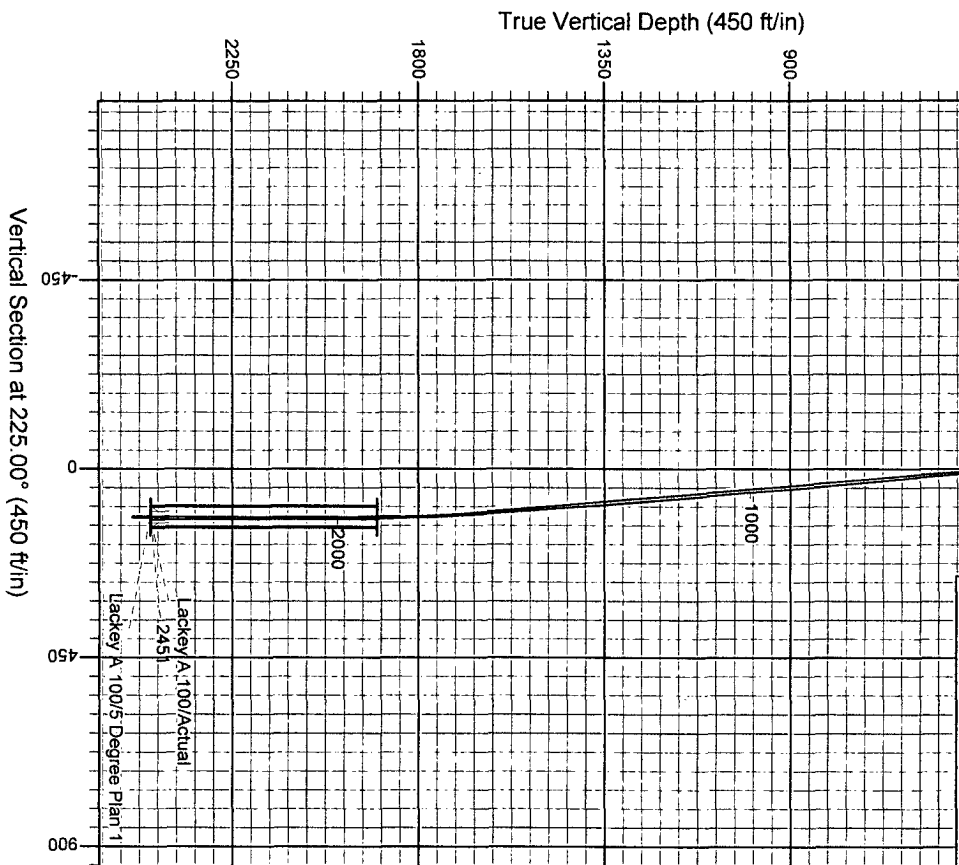
Project: SJB (NM West)
Site: SEC 12-T29N-10W
Well: Lackey A 100
Wellbore: Original Hole
Design: 5 Degree Plan 1



+N/-S 0.0
+E/-W 0.0
Northing 2089713.61

WELL DETAILS: Lackey A 100
H&P 283 @ 5798.0ft (16' DF + 5782' GL)
Ground Level: 5782.0
Easting 498517.84
Latitude 36° 44' 34.853 N
Longitude 107° 50' 18.211 W

Slot



REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well Lackey A 100, True North
Vertical (TVD) Reference: H&P 283 @ 5798.0ft (16' DF + 5782' GL)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: H&P 283 @ 5798.0ft (16' DF + 5782' GL)
Calculation Method: Minimum Curvature

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

PROJECT DETAILS: SJB (NM West)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

SITE DETAILS: SEC 12-T29N-10W
San Juan County NM
Site Centre Latitude: 36° 44' 34.853 N
Longitude: 107° 50' 18.211 W
Positional Uncertainty: 7.5
Convergence: 0.00
Local North: True

Scientific Drilling International, Inc.
Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Lackey A 100
Project:	SJB (NM West)	TVD Reference:	H&P 283 @ 5798.0ft (16' DF + 5782' GL)
Site:	SEC 12-T29N-10W	MD Reference:	H&P 283 @ 5798.0ft (16' DF + 5782' GL)
Well:	Lackey A 100	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	edmCOP

Project	SJB (NM West), 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 West 3003		Using geodetic scale factor

Site	SEC 12-T29N-10W		
Site Position:		Northing:	2,089,713.61 ft
From:	Lat/Long	Easting:	498,517.84 ft
Position Uncertainty:	15.0 ft	Slot Radius:	4-3/8"
		Latitude:	36° 44' 34.853 N
		Longitude:	107° 50' 18.211 W
		Grid Convergence:	0.00 °

Well	Lackey A 100, Vertical FC Well		
Well Position	+N/-S	0.0 ft	Northing: 2,089,713.61 ft
	+E/-W	0.0 ft	Easting: 498,517.84 ft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 44' 34.853 N
		Longitude:	107° 50' 18.211 W
		Ground Level:	5,782.0 ft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2010	10/20/2010	10.00
			Dip Angle (°)
			63.50
			Field Strength (nT)
			50,798

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 (°)
			225.61

Survey Program	Date 12/6/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
299.0	2,451.0	Actual (Original Hole)	MWD SDI
			Description
			MWD - Standard ver 1.0.1

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
299.0	1.14	188.85	299.0	-2.9	-0.5	2.4	0.38	0.38	0.00
330.0	1.35	201.27	330.0	-3.6	-0.6	3.0	1.10	0.68	40.06
361.0	2.01	223.98	361.0	-4.3	-1.1	3.8	2.98	2.13	73.26
395.0	2.83	228.15	394.9	-5.3	-2.2	5.3	2.47	2.41	12.26
426.0	3.45	227.48	425.9	-6.4	-3.4	7.0	2.00	2.00	-2.16
456.0	3.76	227.96	455.8	-7.7	-4.8	8.9	1.04	1.03	1.60
487.0	4.22	224.01	486.7	-9.2	-6.4	11.0	1.73	1.48	-12.74
518.0	4.93	227.24	517.6	-10.9	-8.2	13.5	2.44	2.29	10.42
579.0	5.30	217.83	578.4	-14.9	-11.8	18.9	1.50	0.61	-15.43
654.0	5.42	220.36	653.1	-20.4	-16.2	25.9	0.35	0.16	3.37
744.0	5.37	229.24	742.7	-26.4	-22.2	34.3	0.93	-0.06	9.87
834.0	4.91	229.13	832.3	-31.6	-28.3	42.3	0.51	-0.51	-0.12

Scientific Drilling International, Inc.
Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Lackey A 100
Project:	SJB (NM West)	TVD Reference:	H&P 283 @ 5798.0ft (16' DF + 5782' GL)
Site:	SEC 12-T29N-10W	MD Reference:	H&P 283 @ 5798.0ft (16' DF + 5782' GL)
Well:	Lackey A 100	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)
924.0	4.57	232.38	922.0	-36.3	-34.0	49.7	0.48	-0.38	3.61
1,014.0	4.69	222.28	1,011.7	-41.3	-39.3	57.0	0.91	0.13	-11.22
1,104.0	5.31	225.98	1,101.4	-46.9	-44.8	64.8	0.78	0.69	4.11
1,194.0	5.21	228.00	1,191.0	-52.5	-50.8	73.1	0.23	-0.11	2.24
1,284.0	4.42	226.01	1,280.7	-57.6	-56.4	80.6	0.90	-0.88	-2.21
1,374.0	4.40	228.78	1,370.4	-62.3	-61.5	87.5	0.24	-0.02	3.08
1,464.0	4.22	221.98	1,460.2	-67.1	-66.3	94.3	0.60	-0.20	-7.56
1,554.0	4.35	227.48	1,549.9	-71.8	-71.0	101.0	0.48	0.14	6.11
1,644.0	4.23	225.47	1,639.7	-76.5	-75.9	107.7	0.21	-0.13	-2.23
1,734.0	2.64	230.15	1,729.5	-80.1	-79.8	113.1	1.79	-1.77	5.20
1,824.0	1.64	219.72	1,819.4	-82.4	-82.3	116.5	1.19	-1.11	-11.59
1,914.0	1.36	201.60	1,909.4	-84.4	-83.5	118.7	0.61	-0.31	-20.13
2,004.0	0.24	295.08	1,999.4	-85.3	-84.0	119.8	1.55	-1.24	103.87
2,094.0	0.42	7.17	2,089.4	-84.9	-84.2	119.6	0.46	0.20	80.10
2,184.0	0.38	320.66	2,179.4	-84.4	-84.3	119.3	0.35	-0.04	-51.68
2,274.0	0.55	255.80	2,269.4	-84.3	-84.9	119.6	0.58	0.19	-72.07
2,364.0	0.48	258.88	2,359.4	-84.4	-85.7	120.3	0.08	-0.08	3.42
2,451.0	0.73	244.44	2,446.4	-84.7	-86.6	121.1	0.33	0.29	-16.60