

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

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

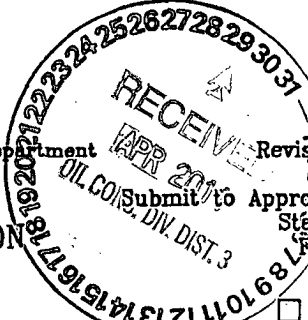
DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

"AS DRILLED PLAT"



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

*API Number 30-045-35064		*Pool Code 72319 / 71599		*Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
*Property Code 7613		*Property Name TURNER FEDERAL			*Well Number 2 M
*OGRID No. 14538		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			*Elevation 6591'

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
D	13	30N	10W	4	745'	NORTH	979'	WEST	SAN JUAN

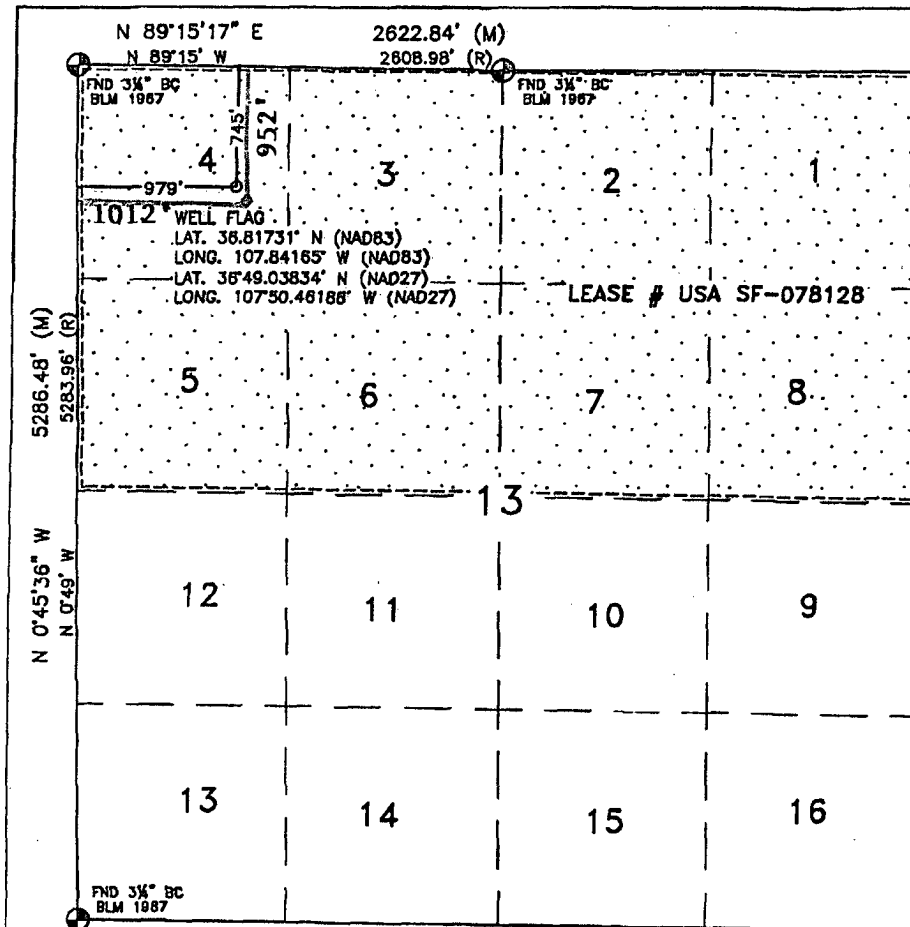
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	30N	11W		952	NORTH	1012	WEST	SAN JUAN

¹² Dedicated Acres 316.46 ACRES - N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

16



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.

Crystal Tafoya 4/28/11
Signature Date

Crystal Tafoya 4/28/11

Printed Name

¹⁸ SURVEYOR CERTIFICATION

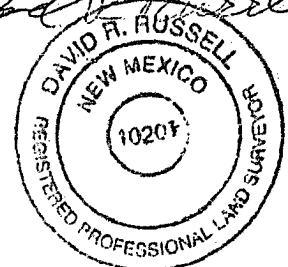
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JANUARY 14, 2009

Date of Survey

Signature and Seal of Professional Surveyor:

David R. Russell



DAVID RUSSELL

Certificate Number

10201

Legal WellName : TURNER FEDERAL #2M

API / UWI: 3004535064

Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP

Surf Loc: 013-030N-010W-D

St/Prov: NEW MEXICO

N/S Dist (ft): 745.00 - FNL

County: SAN JUAN

E/W Dist (ft): 979.00 - FWL

KVD APR 25 11

OIL CONS. DIV.
DIST 3

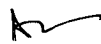
Wellbore Name : Original Hole

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
INCLINATION SURVEY	03/15/2011	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
03/15/2011	130.00	.75	.00	Inc-WL	MOTE
03/15/2011	238.00	.75	.00	Inc-WL	MOTE

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
DIRECTIONAL SURVEY	03/20/2011	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
03/20/2011	268.00	.96	247.02	Inc-MWD	Scientific Drilling
03/20/2011	330.00	.74	257.44	Inc-MWD	Scientific Drilling
03/20/2011	392.00	1.71	240.44	Inc-MWD	Scientific Drilling
03/20/2011	453.00	2.68	214.81	Inc-MWD	Scientific Drilling
03/20/2011	513.00	3.22	194.73	Inc-MWD	Scientific Drilling
03/20/2011	575.00	3.24	182.85	Inc-MWD	Scientific Drilling
03/20/2011	637.00	3.29	185.10	Inc-MWD	Scientific Drilling
03/20/2011	698.00	3.67	182.62	Inc-MWD	Scientific Drilling
03/20/2011	760.00	4.60	181.98	Inc-MWD	Scientific Drilling
03/20/2011	822.00	4.88	189.29	Inc-MWD	Scientific Drilling
03/20/2011	888.00	4.86	185.18	Inc-MWD	Scientific Drilling
03/21/2011	951.00	4.44	181.18	Inc-MWD	Scientific Drilling
03/21/2011	1,013.00	4.66	177.90	Inc-MWD	Scientific Drilling
03/21/2011	1,076.00	4.20	184.56	Inc-MWD	Scientific Drilling
03/21/2011	1,139.00	3.95	188.51	Inc-MWD	Scientific Drilling
03/21/2011	1,202.00	3.79	184.19	Inc-MWD	Scientific Drilling
03/21/2011	1,265.00	4.56	188.32	Inc-MWD	Scientific Drilling
03/21/2011	1,328.00	4.67	186.52	Inc-MWD	Scientific Drilling
03/21/2011	1,391.00	4.61	190.89	Inc-MWD	Scientific Drilling
03/21/2011	1,454.00	4.33	187.55	Inc-MWD	Scientific Drilling
03/21/2011	1,517.00	4.53	193.15	Inc-MWD	Scientific Drilling
03/21/2011	1,580.00	4.32	189.70	Inc-MWD	Scientific Drilling
03/21/2011	1,643.00	4.92	186.43	Inc-MWD	Scientific Drilling
03/21/2011	1,706.00	4.48	192.03	Inc-MWD	Scientific Drilling
03/21/2011	1,769.00	4.06	198.56	Inc-MWD	Scientific Drilling
03/21/2011	1,832.00	4.05	196.50	Inc-MWD	Scientific Drilling
03/21/2011	1,895.00	4.62	193.28	Inc-MWD	Scientific Drilling

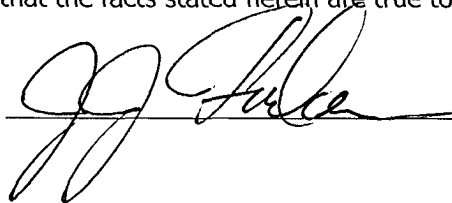


03/21/2011	1,958.00	4.75	194.77	Inc-MWD	Scientific Drilling
03/21/2011	2,021.00	4.96	190.10	Inc-MWD	Scientific Drilling
03/21/2011	2,085.00	4.61	188.08	Inc-MWD	Scientific Drilling
03/21/2011	2,148.00	4.31	191.00	Inc-MWD	Scientific Drilling
03/21/2011	2,211.00	4.37	188.46	Inc-MWD	Scientific Drilling
03/21/2011	2,275.00	4.51	185.94	Inc-MWD	Scientific Drilling
03/21/2011	2,338.00	4.61	186.75	Inc-MWD	Scientific Drilling
03/21/2011	2,401.00	4.41	189.93	Inc-MWD	Scientific Drilling
03/21/2011	2,464.00	4.29	187.66	Inc-MWD	Scientific Drilling
03/21/2011	2,527.00	4.18	187.39	Inc-MWD	Scientific Drilling
03/21/2011	2,591.00	4.16	187.31	Inc-MWD	Scientific Drilling
03/20/2011	2,654.00	4.39	190.06	Inc-MWD	Scientific Drilling
03/20/2011	2,716.00	4.13	190.10	Inc-MWD	Scientific Drilling
03/20/2011	2,779.00	4.20	186.58	Inc-MWD	Scientific Drilling
03/20/2011	2,843.00	3.68	183.47	Inc-MWD	Scientific Drilling
03/20/2011	2,906.00	3.39	178.24	Inc-MWD	Scientific Drilling
03/20/2011	2,969.00	3.21	181.02	Inc-MWD	Scientific Drilling
03/20/2011	3,032.00	2.63	182.77	Inc-MWD	Scientific Drilling
03/20/2011	3,095.00	2.66	173.61	Inc-MWD	Scientific Drilling
03/20/2011	3,158.00	2.51	168.89	Inc-MWD	Scientific Drilling
03/20/2011	3,220.00	2.10	184.46	Inc-MWD	Scientific Drilling
03/20/2011	3,284.00	1.81	192.58	Inc-MWD	Scientific Drilling
03/20/2011	3,347.00	1.95	196.15	Inc-MWD	Scientific Drilling
03/20/2011	3,411.00	1.80	189.00	Inc-MWD	Scientific Drilling
03/20/2011	3,473.00	1.66	184.70	Inc-MWD	Scientific Drilling
03/20/2011	3,489.00	1.91	186.68	Inc-MWD	Scientific Drilling

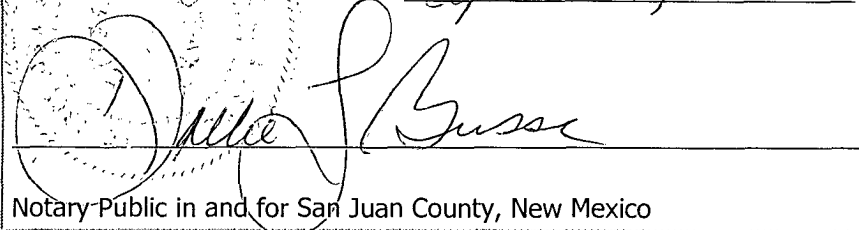
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
FINAL BH SURVEY	03/31/2011	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
03/31/2011	7,768.00	1.75	.00	Inc-WL	Phoenix Services LLC

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 April 21, 2011


Notary-Public in and for San Juan County, New Mexico

My Commission expires AUGUST 6, 2014



Scientific Drilling
Directional Drilling Operations

RCVD APR 25 '11

OIL CONS. DIV.

DIST. 3

ConocoPhillips

SJB (NM West)
SEC 13-T30N-R10W
Turner Federal #2M

Original Hole

Design: Original Hole

Standard Survey Report

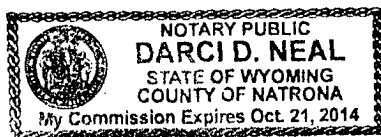
29 March, 2011

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

Notarized this date 30th of March, 2011.

Darci D. Neal

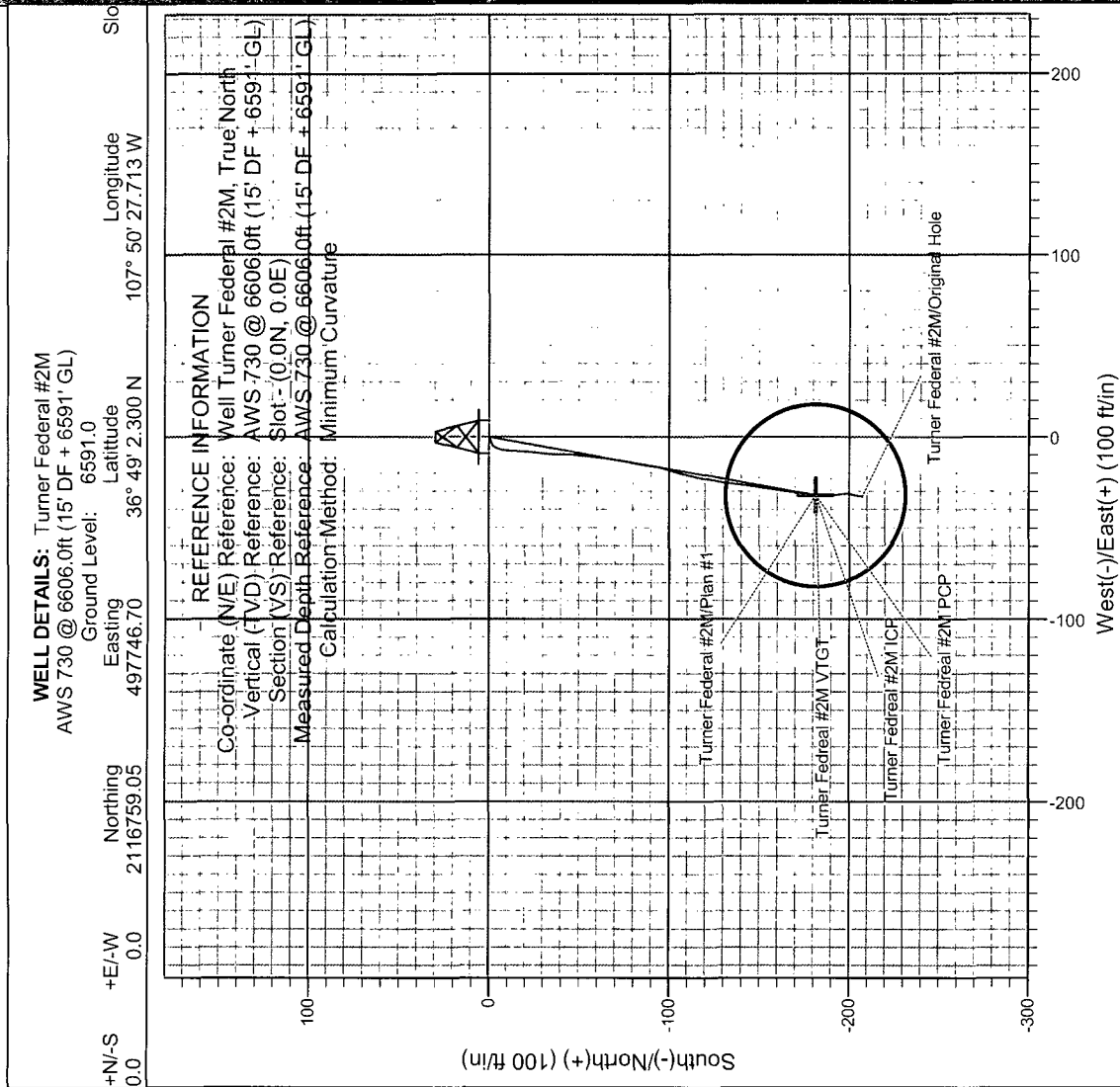
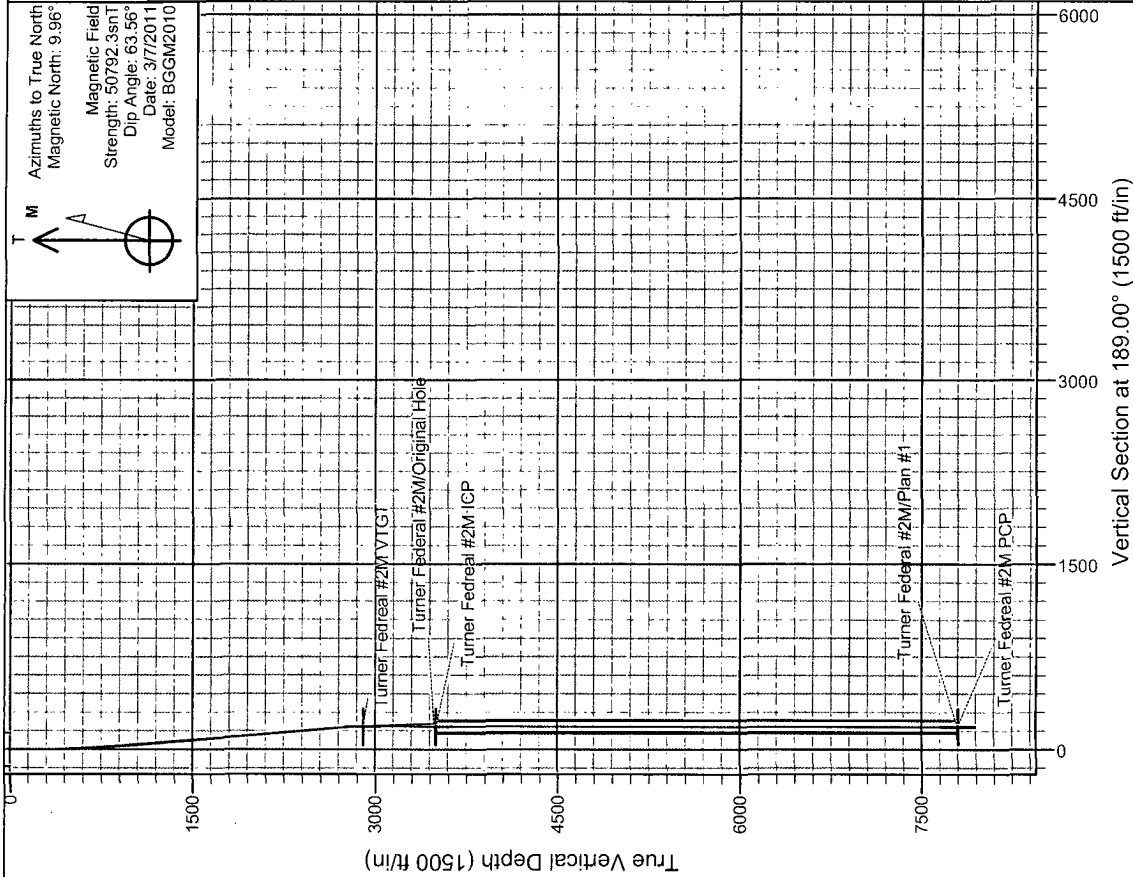
Notary Signature
County of Natrona
State of Wyoming



ConocoPhillips



Project: SJB (NM West)
Site: SEC 13-T30N-R10W
Well: Turner Federal #2M
Wellbore: Original Hole
Design: Original Hole



WELL DETAILS: Turner Federal #2M
AWS 730 @ 6606.0ft (15' DF + 6591' GL)
Ground Level: 6591.0

+E/-W 0.0 Northing 2116759.05 Easting 497746.70
+N/-S 0.0 Latitude 36° 49' 2.300 N Longitude 107° 50' 27.713 W

REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well Turner Federal #2M, True North
Vertical (TVD) Reference: AWS 730 @ 6606.0ft (15' DF + 6591' GL)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: AWS 730 @ 6606.0ft (15' DF + 6591' 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 13-T30N-R10W
San Juan County NM
Site Centre Latitude: 36° 49' 2.300 N
Longitude: 107° 50' 27.713 W
Positional Uncertainty: 7.5
Convergence: 0.00
Local North: True



Scientific Drilling Survey Report



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Turner Federal #2M
Project:	SJB (NM West)	TVD Reference:	AWS 730 @ 6606.0ft (15' DF + 6591' GL)
Site:	SEC 13-T30N-R10W	MD Reference:	AWS 730 @ 6606.0ft (15' DF + 6591' GL)
Well:	Turner Federal #2M	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 13-T30N-R10W		
Site Position:		Northing:	2,116,759.05 ft
From:	Lat/Long	Easting:	497,746.70 ft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 49' 2.300 N
		Longitude:	107° 50' 27.713 W
		Grid Convergence:	0.00 °

Well	Turner Federal #2M, FC Nudge		
Well Position	+N/-S	0.0 ft	Northing: 2,116,759.05 ft
	+E/-W	0.0 ft	Easting: 497,746.70 ft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 49' 2.300 N
		Longitude:	107° 50' 27.713 W
		Ground Level:	6,591.0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	3/7/2011	9.96	63.56	50,792

Design	Original Hole				
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	189.00	

Survey Program	Date 3/29/2011				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
268.0	3,489.0	Survey #1 (Original Hole)	MWD SDI	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
268.0	0.96	247.02	268.0	-0.9	-2.1	1.2	0.36	0.36	0.00
First SDI MWD Survey									
330.0	0.74	257.44	330.0	-1.2	-2.9	1.6	0.43	-0.35	16.81
392.0	1.71	240.44	392.0	-1.7	-4.1	2.3	1.65	1.56	-27.42
453.0	2.68	214.81	452.9	-3.3	-5.7	4.2	2.23	1.59	-42.02
513.0	3.22	194.73	512.8	-6.1	-7.0	7.1	1.93	0.90	-33.47
575.0	3.24	182.85	574.7	-9.5	-7.5	10.6	1.08	0.03	-19.16
637.0	3.29	185.10	636.6	-13.1	-7.7	14.1	0.22	0.08	3.63
698.0	3.67	182.62	697.5	-16.8	-8.0	17.8	0.67	0.62	-4.07
760.0	4.60	181.98	759.4	-21.2	-8.2	22.2	1.50	1.50	-1.03
822.0	4.88	189.29	821.2	-26.3	-8.7	27.3	1.07	0.45	11.79
888.0	4.86	185.18	886.9	-31.9	-9.4	32.9	0.53	-0.03	-6.23

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Turner Federal #2M
Project:	SJB (NM West)	TVD Reference:	AWS 730 @ 6606.0ft (15' DF + 6591' GL)
Site:	SEC 13-T30N-R10W	MD Reference:	AWS 730 @ 6606.0ft (15' DF + 6591' GL)
Well:	Turner Federal #2M	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)
951.0	4.44	181.18	949.7	-37.0	-9.7	38.0	0.84	-0.67	-6.35
1,013.0	4.66	177.90	1,011.5	-41.9	-9.6	42.9	0.55	0.35	-5.29
1,076.0	4.20	184.56	1,074.3	-46.7	-9.7	47.7	1.09	-0.73	10.57
1,139.0	3.95	188.51	1,137.2	-51.2	-10.2	52.2	0.60	-0.40	6.27
1,202.0	3.79	184.19	1,200.0	-55.4	-10.7	56.4	0.53	-0.25	-6.86
1,265.0	4.56	188.32	1,262.9	-60.0	-11.2	61.0	1.31	1.22	6.56
1,328.0	4.67	186.52	1,325.7	-65.0	-11.9	66.0	0.29	0.17	-2.86
1,391.0	4.61	190.89	1,388.4	-70.0	-12.6	71.1	0.57	-0.10	6.94
1,454.0	4.33	187.55	1,451.3	-74.9	-13.4	76.0	0.61	-0.44	-5.30
1,517.0	4.53	193.15	1,514.1	-79.6	-14.3	80.9	0.76	0.32	8.89
1,580.0	4.32	189.70	1,576.9	-84.4	-15.3	85.8	0.54	-0.33	-5.48
1,643.0	4.92	186.43	1,639.7	-89.4	-16.0	90.8	1.04	0.95	-5.19
1,706.0	4.48	192.03	1,702.5	-94.5	-16.8	96.0	1.01	-0.70	8.89
1,769.0	4.06	198.56	1,765.3	-99.0	-18.0	100.6	1.02	-0.67	10.37
1,832.0	4.05	196.50	1,828.1	-103.3	-19.4	105.0	0.23	-0.02	-3.27
1,895.0	4.62	193.28	1,891.0	-107.9	-20.6	109.8	0.98	0.90	-5.11
1,958.0	4.75	194.77	1,953.7	-112.9	-21.8	114.9	0.28	0.21	2.37
2,021.0	4.96	190.10	2,016.5	-118.1	-23.0	120.2	0.71	0.33	-7.41
2,085.0	4.61	188.08	2,080.3	-123.4	-23.8	125.6	0.61	-0.55	-3.16
2,148.0	4.31	191.00	2,143.1	-128.2	-24.6	130.5	0.60	-0.48	4.63
2,211.0	4.37	188.46	2,205.9	-132.9	-25.4	135.2	0.32	0.10	-4.03
2,275.0	4.51	185.94	2,269.7	-137.8	-26.0	140.2	0.38	0.22	-3.94
2,338.0	4.61	186.75	2,332.5	-142.8	-26.6	145.2	0.19	0.16	1.29
2,401.0	4.41	189.93	2,395.3	-147.7	-27.3	150.1	0.51	-0.32	5.05
2,464.0	4.29	187.66	2,458.2	-152.4	-28.0	154.9	0.33	-0.19	-3.60
2,527.0	4.18	187.39	2,521.0	-157.0	-28.6	159.6	0.18	-0.17	-0.43
2,591.0	4.16	187.31	2,584.8	-161.6	-29.2	164.2	0.03	-0.03	-0.13
2,654.0	4.39	190.06	2,647.6	-166.3	-30.0	168.9	0.49	0.37	4.37
2,716.0	4.13	190.10	2,709.5	-170.8	-30.8	173.5	0.42	-0.42	0.06
2,779.0	4.20	186.58	2,772.3	-175.3	-31.4	178.1	0.42	0.11	-5.59
2,843.0	3.68	183.47	2,836.1	-179.7	-31.8	182.5	0.88	-0.81	-4.86
2,906.0	3.39	178.24	2,899.0	-183.6	-31.9	186.3	0.69	-0.46	-8.30
2,969.0	3.21	181.02	2,961.9	-187.2	-31.9	189.9	0.38	-0.29	4.41
3,032.0	2.63	182.77	3,024.8	-190.4	-32.0	193.1	0.93	-0.92	2.78
3,095.0	2.66	173.61	3,087.8	-193.3	-31.9	195.9	0.67	0.05	-14.54
3,158.0	2.51	168.89	3,150.7	-196.1	-31.4	198.6	0.41	-0.24	-7.49
3,220.0	2.10	184.46	3,212.7	-198.6	-31.3	201.0	1.20	-0.66	25.11
3,284.0	1.81	192.58	3,276.6	-200.7	-31.6	203.2	0.63	-0.45	12.69
3,347.0	1.95	196.15	3,339.6	-202.7	-32.1	205.3	0.29	0.22	5.67
3,411.0	1.80	189.00	3,403.6	-204.8	-32.5	207.4	0.43	-0.23	-11.17
3,473.0	1.66	184.70	3,465.5	-206.6	-32.8	209.2	0.31	-0.23	-6.94
3,489.0	1.91	186.68	3,481.5	-207.1	-32.8	209.7	1.61	1.56	12.38

Last SDI MWD Survey

Checked By: _____ Approved By: _____ Date: _____