

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

DISTRICT II
1301 West 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

Form C-102 Revised
July 16, 2010
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 31137	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 7207	⁵ Property Name JOHNSTON A COM G	⁶ Well Number 17P
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6364'

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
K	36	26-N	6-W		1435	SOUTH	2085	WEST	RIO ARRIBA

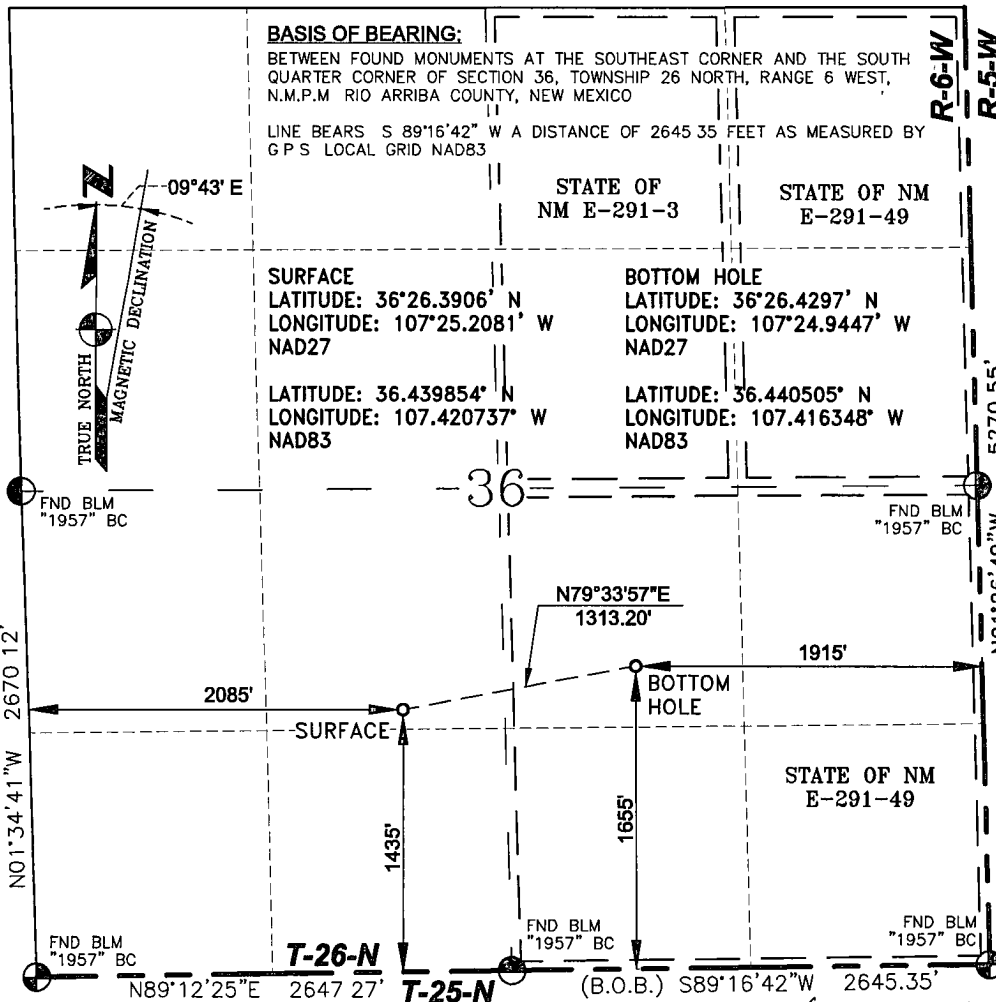
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	36	26-N	6-W		1655	SOUTH	1915	EAST	RIO ARRIBA

¹² Dedicated Acres DK 320.00 ACRES E/2 MV 320.00 ACRES E/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No RCVD AUG 13 '12 OIL CONS. DIV.
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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

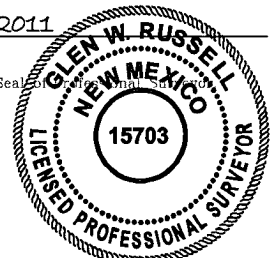
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Patsy Clugston 8/13/12
Signature Date
Patsy Clugston
Printed Name
clugspl@conocophillips.com
E-mail Address

18 SURVEYOR CERTIFICATION

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

JUNE 2, 2011
Date of Survey
Signature and Seal
GLEN W. RUSSELL
15703
Certificate Number



Holding for Collected DR Survey Plan
called Patsy 8-14-12

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

JOHNSTON A COM G 17P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.1067				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 920		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.439843	Longitude: -107.420134	X:	Y:	Section: 36		Range: 006W	
Footage X: 2085 FWL		Footage Y: 1435 FSL		Elevation: 6364	(FT)	Township: 026N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.440494	Longitude: -107.415745	X:	Y:	Section: 36		Range: 006W	
Footage X: 1915 FEL		Footage Y: 1655 FSL		Elevation:	(FT)	Township: 026N	
Tolerance:							
Location Type:		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6379 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6179		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	713	5666		☐			
OJO ALAMO	2007	4372		☐			
KIRTLAND	2155	4224		☐			
FRUITLAND	2199	4180		☐			Possible Gas
PICTURED CLIFFS	2590	3789		☐	57		
LEWIS	2678	3701		☐			
HUERFANITO BENTONITE	3015	3364		☐			
CHACRA	3474	2905		☐			
MASSIVE CLIFF HOUSE	4245	2134		☐	812		Gas; Cliffhouse is dry
MENEFEE	4276	2103		☐			
Intermediate Casing	4426	1953		☐		121	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1048 cuft. Circulate cement to surface.
POINT LOOKOUT	4822	1557		☐			
MANCOS	5147	1232		☐			
UPPER GALLUP	5860	519		☐			
GREENHORN	6732	-353		☐			
GRANEROS	6784	-405		☐			
TWO WELLS	6815	-436		☐	2385		Gas
UPPER CUBERO	6934	-555		☐			
LOWER CUBERO	6969	-590		☐			
OAK CANYON	7004	-625		☐			7027' - est bottom perf

PROJECT PROPOSAL - New Drill / Sidetrack

JOHNSTON A COM G 17P

DEVELOPMENT

ENCINAL	7042	-663	☐	TD - T/ENCN
Total Depth	7087	-708	☐	182 6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 353 cuft. Circulate cement a minimum of 100' inside the previous casing string.
BURRO CANYON	7160	-781	☐	
MORRISON	7189	-810	☐	

Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Mud log from the Upper Gallup to TD. Mud loggers will call final TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - MV/DKNM026N006W36SE2 Not I - Johnston A Com G 17M, a producing MV/DK well, is located here. Prefer a BHL in O but don't twin the PC well Johnston A 5, then try P, J. There is some topo.

Zones - MV/DKNM026N006W36SE2

General/Work Description - 7/31/12 H2S Contingency Plan Required

6/12/12 Allocation: Gas Commingle Compositional. Samples; MV Yes, DK Yes. bommaf

10-26-11 This project will be Close Loop JEG

NO LEWIS

11/29/10 - Economic as directional.--TLJ



RCVD AUG 15 '12

OIL CONS. DIV.

DIST. 3

ConocoPhillips

SJB (NM Central)

Sec 36-T26N-R6W

Johnston A Com G #17P

OH

Plan: Plan 1

Standard Planning Report

14 August, 2012



Database:	EDM 2003 21 Single User Db	Local Co-ordinate Reference:	Well Johnston A Com G #17P
Company:	ConocoPhillips	TVD Reference:	GL 6364' & KB 15' @ 6379 0ft (AWS 920)
Project:	SJB (NM Central)	MD Reference:	GL 6364' & KB 15' @ 6379 0ft (AWS 920)
Site:	Sec 36-T26N-R6W	North Reference:	True
Well:	Johnston A Com G #17P	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

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 36-T26N-R6W		
Site Position		Northing	1,981,403 41 ft
From	Lat/Long	Easting:	155,811 34 ft
Position Uncertainty:	0 0 ft	Slot Radius:	"
		Latitude:	36° 26' 23 436 N
		Longitude:	107° 25' 12 486 W
		Grid Convergence:	-0 70 °

Well:	Johnston A Com G #17P, 1435' FSL 2085' FWL		
Well Position	+N/-S	0 0 ft	Northing:
	+E/-W	0 0 ft	Easting:
Position Uncertainty	0 0 ft	Wellhead Elevation:	ft
		Latitude:	36° 26' 23 436 N
		Longitude:	107° 25' 12 486 W
		Ground Level:	6,364 0 ft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2012	2012/08/14	9 62
			Dip Angle (°)
			63 22
			Field Strength (nT)
			50,446

Design:	Plan 1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0 0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0 0	0 0	0 0
			Direction (°)
			79 59

Plan/Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 00	0 00	0 00	
320 0	0 00	0 00	320 0	0 0	0 0	0 00	0 00	0 00	0 00	
1,451 1	22 62	79 59	1,421 9	39 8	216 8	2 00	2 00	0 00	79 59	
3,909 7	22 62	79 59	3,691 4	210 7	1,146 9	0 00	0 00	0 00	0 00	
4,663 7	0 00	0 00	4,426 0	237 3	1,291 4	3 00	-3 00	0 00	180 00	Johnston A Com G #1
7,324 7	0 00	0 00	7,087 0	237 3	1,291 4	0 00	0 00	0 00	0 00	Johnston A Com G #1

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Site	Sec 36-T26N-R6W	North Reference:	True
Well	Johnston A Com G #17P	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned 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
100 0	0 00	0 00	100 0	0 0	0 0	0 0	0 00	0 00	0 00
200 0	0 00	0 00	200 0	0 0	0 0	0 0	0 00	0 00	0 00
300 0	0 00	0 00	300 0	0 0	0 0	0 0	0 00	0 00	0 00
320 0	0 00	0 00	320 0	0 0	0 0	0 0	0 00	0 00	0 00
400 0	1 60	79 59	400 0	0 2	1 1	1 1	2 00	2 00	0 00
500 0	3 60	79 59	499 9	1 0	5 6	5 7	2 00	2 00	0 00
600 0	5 60	79 59	599 6	2 5	13 4	13 7	2 00	2 00	0 00
700 0	7 60	79 59	698 9	4 5	24 8	25 2	2 00	2 00	0 00
714 2	7 88	79 59	713 0	4 9	26 6	27 1	2 00	2 00	0 00
Nacimiento									
800 0	9 60	79 59	797 8	7 2	39 5	40 1	2 00	2 00	0 00
900 0	11 60	79 59	896 0	10 6	57 5	58 5	2 00	2 00	0 00
1,000 0	13 60	79 59	993 6	14 5	79 0	80 3	2 00	2 00	0 00
1,100 0	15 60	79 59	1,090 4	19 1	103 8	105 5	2 00	2 00	0 00
1,200 0	17 60	79 59	1,186 2	24 2	131 9	134 1	2 00	2 00	0 00
1,300 0	19 60	79 59	1,281 0	30 0	163 3	166 0	2 00	2 00	0 00
1,400 0	21 60	79 59	1,374 6	36 4	197 9	201 2	2 00	2 00	0 00
1,451 1	22 62	79 59	1,421 9	39 8	216 8	220 4	2 00	2 00	0 00
1,500 0	22 62	79 59	1,467 1	43 2	235 3	239 2	0 00	0 00	0 00
1,600 0	22 62	79 59	1,559 4	50 2	273 1	277 7	0 00	0 00	0 00
1,700 0	22 62	79 59	1,651 7	57 1	310 9	316 1	0 00	0 00	0 00
1,800 0	22 62	79 59	1,744 0	64 1	348 8	354 6	0 00	0 00	0 00
1,900 0	22 62	79 59	1,836 3	71 0	386 6	393 1	0 00	0 00	0 00
2,000 0	22 62	79 59	1,928 6	78 0	424 4	431 5	0 00	0 00	0 00
2,084 9	22 62	79 59	2,007 0	83 9	456 6	464 2	0 00	0 00	0 00
Ojo Alamo									
2,100 0	22 62	79 59	2,020 9	84 9	462 3	470 0	0 00	0 00	0 00
2,200 0	22 62	79 59	2,113 2	91 9	500 1	508 5	0 00	0 00	0 00
2,245 3	22 62	79 59	2,155 0	95 0	517 2	525 9	0 00	0 00	0 00
Kirtland									
2,292 9	22 62	79 59	2,199 0	98 3	535 2	544 2	0 00	0 00	0 00
Fruitland									
2,300 0	22 62	79 59	2,205 5	98 8	537 9	546 9	0 00	0 00	0 00
2,400 0	22 62	79 59	2,297 8	105 8	575 8	585 4	0 00	0 00	0 00
2,500 0	22 62	79 59	2,390 1	112 7	613 6	623 9	0 00	0 00	0 00
2,600 0	22 62	79 59	2,482 5	119 7	651 4	662 3	0 00	0 00	0 00
2,700 0	22 62	79 59	2,574 8	126 6	689 2	700 8	0 00	0 00	0 00
2,716 5	22 62	79 59	2,590 0	127 8	695 5	707 1	0 00	0 00	0 00
Pictured Cliff									
2,800 0	22 62	79 59	2,667 1	133 6	727 1	739 2	0 00	0 00	0 00
2,811 8	22 62	79 59	2,678 0	134 4	731 6	743 8	0 00	0 00	0 00
Lewis									
2,900 0	22 62	79 59	2,759 4	140 5	764 9	777 7	0 00	0 00	0 00
3,000 0	22 62	79 59	2,851 7	147 5	802 7	816 2	0 00	0 00	0 00
3,100 0	22 62	79 59	2,944 0	154 4	840 6	854 6	0 00	0 00	0 00
3,176 9	22 62	79 59	3,015 0	159 8	869 7	884 2	0 00	0 00	0 00
Huerfano, Bentonite									
3,200 0	22 62	79 59	3,036 3	161 4	878 4	893 1	0 00	0 00	0 00
3,300 0	22 62	79 59	3,128 6	168 3	916 2	931 6	0 00	0 00	0 00
3,400 0	22 62	79 59	3,220 9	175 3	954 1	970 0	0 00	0 00	0 00
3,500 0	22 62	79 59	3,313 2	182 2	991 9	1,008 5	0 00	0 00	0 00
3,600 0	22 62	79 59	3,405 5	189 2	1,029 7	1,047 0	0 00	0 00	0 00

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Project:	SJB (NM Central)	MD Reference:	GL 6364' & KB 15' @ 6379 0ft (AWS 920)
Site:	Sec 36-T26N-R6W	North Reference:	True
Well:	Johnston A Com G #17P	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned 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)
3,674.2	22.62	79.59	3,474.0	194.4	1,057.8	1,075.5	0.00	0.00	0.00
Chacra									
3,700.0	22.62	79.59	3,497.8	196.1	1,067.5	1,085.4	0.00	0.00	0.00
3,800.0	22.62	79.59	3,590.1	203.1	1,105.4	1,123.9	0.00	0.00	0.00
3,900.0	22.62	79.59	3,682.4	210.0	1,143.2	1,162.3	0.00	0.00	0.00
3,909.7	22.62	79.59	3,691.4	210.7	1,146.9	1,166.1	0.00	0.00	0.00
4,000.0	19.91	79.59	3,775.5	216.6	1,179.1	1,198.8	3.00	-3.00	0.00
4,100.0	16.91	79.59	3,870.4	222.3	1,210.1	1,230.4	3.00	-3.00	0.00
4,200.0	13.91	79.59	3,966.8	227.1	1,236.3	1,257.0	3.00	-3.00	0.00
4,300.0	10.91	79.59	4,064.5	231.0	1,257.4	1,278.5	3.00	-3.00	0.00
4,400.0	7.91	79.59	4,163.1	234.0	1,273.5	1,294.8	3.00	-3.00	0.00
4,482.5	5.44	79.59	4,245.0	235.7	1,282.9	1,304.4	3.00	-3.00	0.00
Massive Cliff House									
4,500.0	4.91	79.59	4,262.5	236.0	1,284.5	1,306.0	3.00	-3.00	0.00
4,513.6	4.50	79.59	4,276.0	236.2	1,285.6	1,307.1	3.00	-3.00	0.00
Meneffe									
4,600.0	1.91	79.59	4,362.3	237.1	1,290.3	1,311.9	3.00	-3.00	0.00
4,663.7	0.00	0.00	4,426.0	237.3	1,291.4	1,313.0	3.00	-3.00	0.00
Intermediate Casing - Johnston A Com G #17P ICP									
4,700.0	0.00	0.00	4,462.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,562.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,662.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,762.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
5,059.7	0.00	0.00	4,822.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Pony Lookout									
5,100.0	0.00	0.00	4,862.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
5,200.0	0.00	0.00	4,962.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,062.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
5,385.7	0.00	0.00	5,148.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Mancos									
5,400.0	0.00	0.00	5,162.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,262.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,362.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,462.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,562.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,662.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,762.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,097.7	0.00	0.00	5,860.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Upper Gallup									
6,100.0	0.00	0.00	5,862.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,200.0	0.00	0.00	5,962.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,062.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,162.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,262.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,362.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,462.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,562.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,662.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
6,969.7	0.00	0.00	6,732.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Greenhorn									
7,000.0	0.00	0.00	6,762.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
7,021.7	0.00	0.00	6,784.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Graneros									

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Well:	Johnston A Com G #17P	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Planned 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)
7,052.7	0.00	0.00	6,815.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Two Wells									
7,100.0	0.00	0.00	6,862.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
7,171.7	0.00	0.00	6,934.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Upper Cubero									
7,200.0	0.00	0.00	6,962.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
7,206.7	0.00	0.00	6,969.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Lower Cubero									
7,241.7	0.00	0.00	7,004.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Oak Canyon									
7,279.7	0.00	0.00	7,042.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Encinal									
7,300.0	0.00	0.00	7,062.3	237.3	1,291.4	1,313.0	0.00	0.00	0.00
7,324.7	0.00	0.00	7,087.0	237.3	1,291.4	1,313.0	0.00	0.00	0.00
Production Casing: Johnston A Com G #17P PCP									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Johnston A Com G #17F	0.00	0.00	4,426.0	237.3	1,291.4	1,981,625.00	157,105.56	36° 26' 25.782 N	107° 24' 56.682 W
- hit/miss target									
- plan hits target center									
- Circle (radius 100.0)									
Johnston A Com G #17F	0.00	0.00	7,087.0	237.3	1,291.4	1,981,625.00	157,105.56	36° 26' 25.782 N	107° 24' 56.682 W
- hit/miss target									
- plan hits target center									
- Circle (radius 100.0)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,324.7	7,087.0	Production Casing	4-1/2	6-1/4	
4,663.7	4,426.0	Intermediate Casing	7	8-3/4	

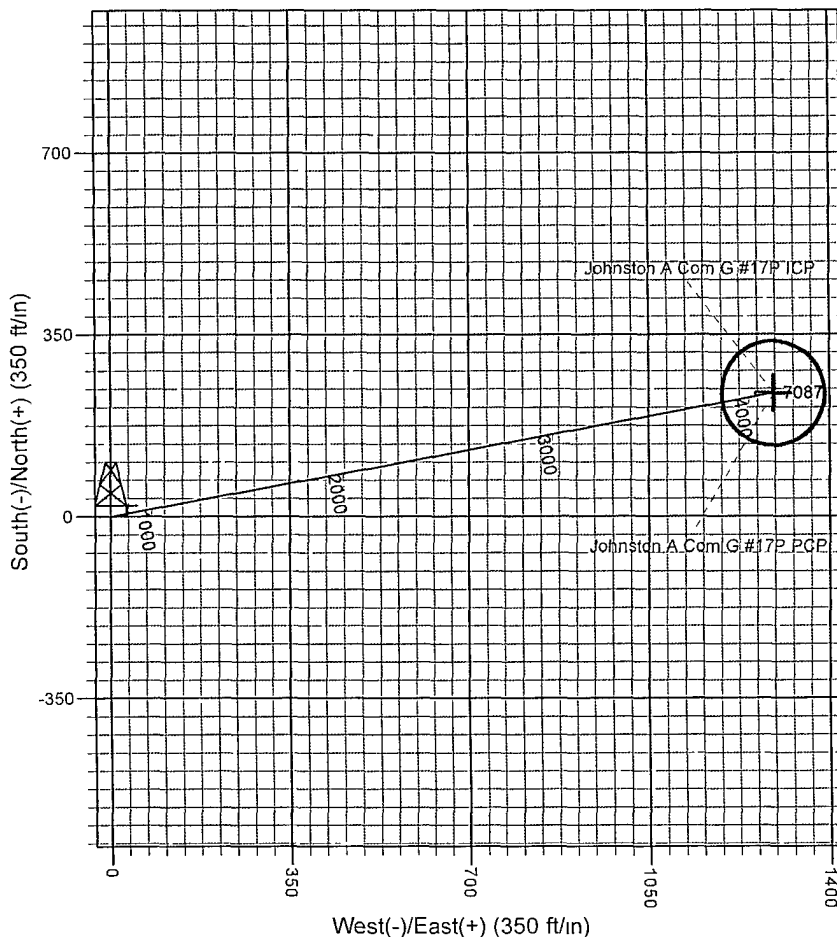
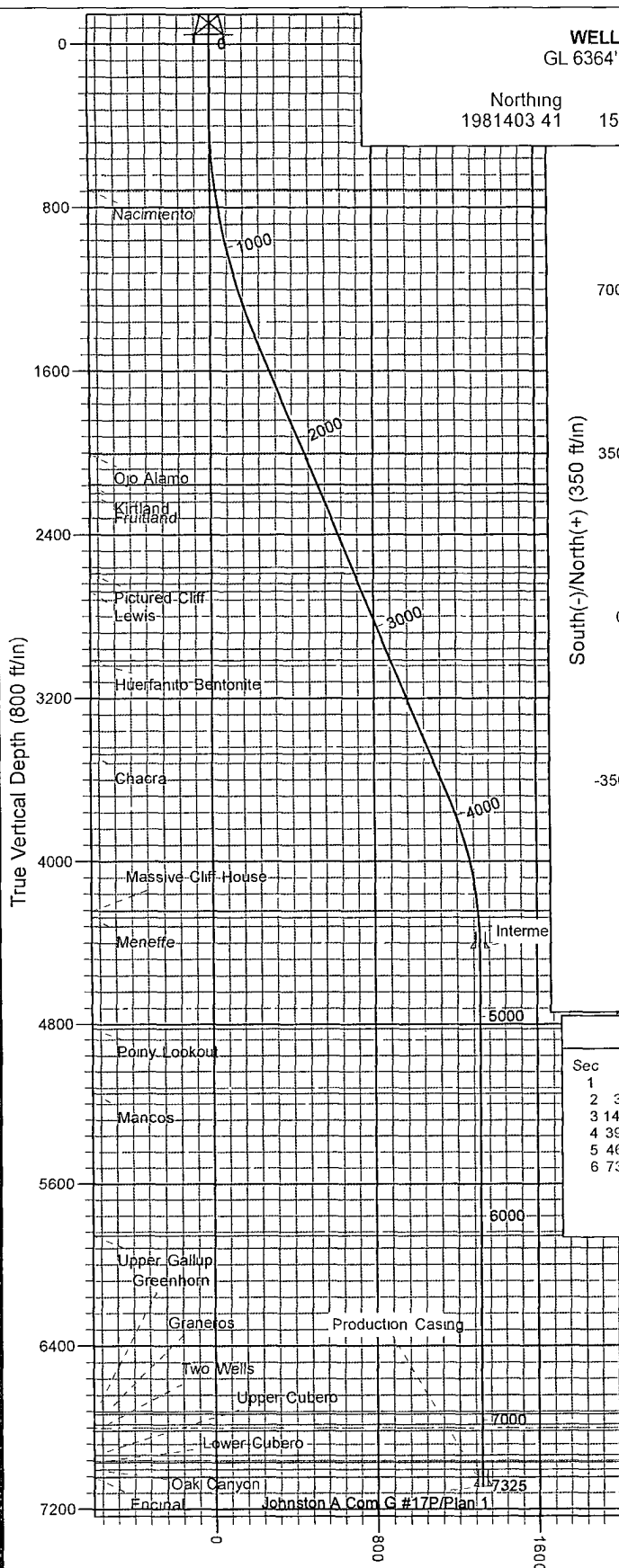
Database:	EDM 2003 21 Single User Db	Local Co-ordinate Reference:	Well Johnston A Com G #17P
Company:	ConocoPhillips	TVD Reference:	GL 6364' & KB 15' @ 6379 0ft (AWS 920)
Project:	SJB (NM Central)	MD Reference:	GL 6364' & KB 15' @ 6379 0ft (AWS 920)
Site:	Sec 36-T26N-R6W	North Reference:	True
Well:	Johnston A Com G #17P	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
714.2	713.0	Nacimiento		0.00		
2,084.9	2,007.0	Ojo Alamo		0.00		
2,245.3	2,155.0	Kirtland		0.00		
2,292.9	2,199.0	Fruitland		0.00		
2,716.5	2,590.0	Pictured Cliff		0.00		
2,811.8	2,678.0	Lewis		0.00		
3,176.9	3,015.0	Huerfano Bentonite		0.00		
3,674.2	3,474.0	Chacra		0.00		
4,482.5	4,245.0	Massive Cliff House		0.00		
4,513.6	4,276.0	Meneffe		0.00		
5,059.7	4,822.0	Poiny Lookout		0.00		
5,385.7	5,148.0	Mancos		0.00		
6,097.7	5,860.0	Upper Gallup		0.00		
6,969.7	6,732.0	Greenhorn		0.00		
7,021.7	6,784.0	Graneros		0.00		
7,052.7	6,815.0	Two Wells		0.00		
7,171.7	6,934.0	Upper Cubero		0.00		
7,206.7	6,969.0	Lower Cubero		0.00		
7,241.7	7,004.0	Oak Canyon		0.00		
7,279.7	7,042.0	Encinal		0.00		

WELL DETAILS: Johnston A Com G #17P
 GL 6364' & KB 15' @ 6379.0ft (AWS 920)
 Ground Level 6364 0

Northing 1981403 41 Easting 155811 34 Latitude 36° 26' 23 436 N Longitude 107° 25' 12 486 W

Compass Rose:
 T M
 Azimuths to True North
 Magnetic North 9 62
Magnetic Field:
 Strength 50446 1snT
 Dip Angle 63 22
 Date 2012/08/14
 Model BGGM2012



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 00	0 0	
2	320 0	0 00	0 00	320 0	0 0	0 0	0 00	0 00	0 0	
3	1451 1	22 62	79 59	1421 9	39 8	216 8	2 00	79 59	220 4	
4	3909 7	22 62	79 59	3691 4	210 7	1146 9	0 00	0 00	1166 1	
5	4663 7	0 00	0 00	4426 0	237 3	1291 4	3 00	180 00	1313 0	Johnston A Com G #17P ICP
6	7324 7	0 00	0 00	7087 0	237 3	1291 4	0 00	0 00	1313 0	Johnston A Com G #17P PCP

Date 19 30, August 14 2012

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Johnston A Com G #17P, True North
 Vertical (TVD) Reference: GL 6364' & KB 15' @ 6379.0ft (AWS 920)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: GL 6364' & KB 15' @ 6379.0ft (AWS 920)
 Calculation Method: Minimum Curvature

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