

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised July 10, 2010

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

Submit one copy to appropriate
District Office

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

OIL CONSERVATION DIVISION

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

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

☐ AMENDED REPORT

AS DRILLED PLAT
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30770	² Pool Code 71599/72319/97232	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE/BASIN MANCOS
⁴ Property Code 7228	⁵ Property Name KLEIN	⁶ Well Number 19 P
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6683'

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
G	34	26N	6W		2394'	NORTH	2099'	EAST	RIO ARriba

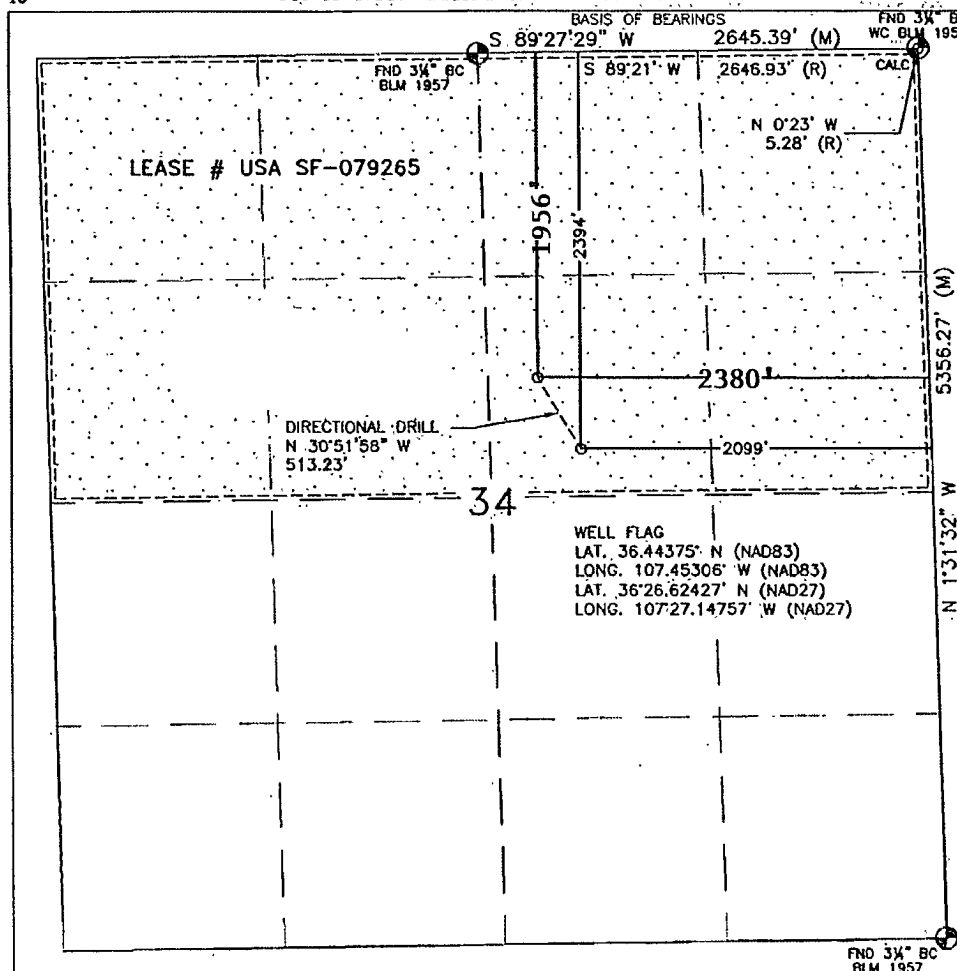
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	34	26N	6W		1956'	NORTH	2380'	EAST	RIO ARriba

¹² Dedicated Acres 320.0 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

18



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 working interest, or to a voluntary voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Marie E. Jaramillo* Date: 6/12/12

Printed Name: Marie E. Jaramillo

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.

DECEMBER 3, 2010

Date of Survey

Signature and Seal of Professional Surveyor:

David Russell
REGISTERED PROFESSIONAL LAND SURVEYOR
10201

DAVID RUSSELL

Certificate Number 10201



COP Deviation Report

KLEIN #19P

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName KLEIN #19P	API / UWI 3003930770	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 034-026N-006W-G	N/S Dist (ft) 2,394 00	N/S Ref FNL	E/W Dist (ft) 2,099 00	E/W Ref FEL

Survey Data						
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company	
3/26/2012	128 00	0.50	0.00	Inc-Drop	MO-TE DRILLING INC.	
3/26/2012	239.00	0.75	0.00	Inc-Drop	MO-TE DRILLING INC	
4/5/2012	274 00	0 54	125.32	IncAzi-MWD	Scientific Drilling	
4/5/2012	305.00	0 55	90 90	IncAzi-MWD	Scientific Drilling	
4/5/2012	367 00	0 41	102 31	IncAzi-MWD	Scientific Drilling	
4/5/2012	398.00	0 68	75 32	IncAzi-MWD	Scientific Drilling	
4/5/2012	429.00	0 53	75 24	IncAzi-MWD	Scientific Drilling	
4/5/2012	459.00	0.48	338.43	IncAzi-MWD	Scientific Drilling	
4/5/2012	520 00	2.11	329.41	IncAzi-MWD	Scientific Drilling	
4/5/2012	581.00	3.87	330.78	IncAzi-MWD	Scientific Drilling	
4/5/2012	643 00	5.33	334 28	IncAzi-MWD	Scientific Drilling	
4/5/2012	704.00	6.68	334.85	IncAzi-MWD	Scientific Drilling	
4/5/2012	766 00	6.57	334 37	IncAzi-MWD	Scientific Drilling	
4/5/2012	828 00	6 46	334 88	IncAzi-MWD	Scientific Drilling	
4/5/2012	889 00	7.06	331 68	IncAzi-MWD	Scientific Drilling	
4/5/2012	949 00	8.51	333 79	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,011.00	10.05	334.52	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,076.00	10 88	331 72	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,202.00	14 27	329 52	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,266.00	15.11	327.74	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,329.00	15.34	328.50	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,456.00	16.20	328.50	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,520 00	16.16	327.87	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,583 00	16.15	328.15	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,646 00	15 67	327.58	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,710 00	16 11	327.46	IncAzi-MWD	Scientific Drilling	
4/5/2012	1,773 00	16 38	328 23	IncAzi-MWD	Scientific Drilling	
4/6/2012	1,836 00	16 03	328.69	IncAzi-MWD	Scientific Drilling	
4/6/2012	1,963.00	15 53	328 61	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,026.00	15.67	328 26	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,090.00	15.85	327 55	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,152 00	16.00	327.85	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,216.00	15.71	326.74	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,279.00	15.68	326.17	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,342 00	15.73	325.50	IncAzi-MWD	Scientific Drilling	

I, the undersigned, certify that I acting in my capacity as _____ 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 _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____



COP Deviation Report

KLEIN #19P

Survey Data						
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company	
4/6/2012	2,405.00	15.42	326.24	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,468.00	14.00	330.82	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,532.00	12.50	332.18	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,595.00	10.71	332.68	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,659.00	9.25	331.38	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,722.00	7.33	323.37	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,785.00	6.05	319.00	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,848.00	4.95	319.50	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,911.00	3.33	316.89	IncAzi-MWD	Scientific Drilling	
4/6/2012	2,974.00	2.04	326.83	IncAzi-MWD	Scientific Drilling	
4/6/2012	3,037.00	2.23	326.85	IncAzi-MWD	Scientific Drilling	
4/6/2012	3,101.00	1.74	321.27	IncAzi-MWD	Scientific Drilling	
4/6/2012	3,164.00	1.92	328.62	IncAzi-MWD	Scientific Drilling	
4/6/2012	3,228.00	1.51	328.50	IncAzi-MWD	Scientific Drilling	
4/6/2012	3,352.00	1.25	312.13	IncAzi-MWD	Scientific Drilling	
4/6/2012	3,418.00	0.99	300.38	IncAzi-MWD	Scientific Drilling	
4/6/2012	3,481.00	0.47	312.68	IncAzi-MWD	Scientific Drilling	
4/6/2012	3,605.00	0.47	303.35	IncAzi-MWD	Scientific Drilling	
4/6/2012	3,672.00	0.47	297.74	IncAzi-MWD	Scientific Drilling	
4/6/2012	3,735.00	0.47	293.08	IncAzi-MWD	Scientific Drilling	
4/7/2012	3,798.00	0.50	281.93	IncAzi-MWD	Scientific Drilling	
4/7/2012	3,861.00	0.53	267.46	IncAzi-MWD	Scientific Drilling	
4/7/2012	3,925.00	0.52	266.13	IncAzi-MWD	Scientific Drilling	
4/7/2012	3,988.00	0.54	256.97	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,051.00	0.68	253.85	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,114.00	0.57	246.98	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,177.00	0.77	256.00	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,240.00	0.84	246.21	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,304.00	0.72	237.12	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,367.00	0.79	244.86	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,494.00	0.76	233.95	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,557.00	0.69	235.61	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,620.00	0.64	227.39	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,684.00	0.74	222.24	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,745.00	0.76	208.12	IncAzi-MWD	Scientific Drilling	
4/7/2012	4,805.00	0.76	208.12	Projection	Scientific Drilling	
4/10/2012	5,286.00	0.50	0.00	Inc-MWD	TELE DRIFT	
4/11/2012	5,794.00	0.50	0.00	Inc-MWD	TELE DRIFT	
4/11/2012	6,323.00	0.50	0.00	Inc-MWD	TELE DRIFT	

I, the undersigned, certify that I acting in my capacity as _____ 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 _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
4/11/2012	6,830.00	1.50	0.00	Inc-MWD	TELE DRIFT
4/12/2012	7,330.00	1.00	0.00	Inc-MWD	TELE DRIFT
4/13/2012	7,390.00	1.50	0.00	Inc-Drop	TOTCO
4/11/2012	7,400.00	0.50	0.00	Inc-MWD	TELE DRIFT

I, the undersigned, certify that I acting in my capacity as Dilling 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.

[Signature]

Subscribed and sworn to me this 6/12/12

[Signature]

Notary Public in and for San Juan County, New Mexico

My Commission expires 7/12/14



RCVD JUN 13 12

OIL CONS. DIV.

DIST. 3

ConocoPhillips

SJB (NM Central)
SEC 34-T26N-R6W
Klein 19P

OH

Design: OH

API # 3003930770

Standard Survey Report

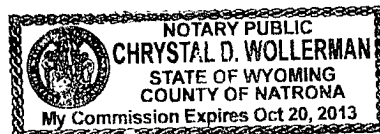
12 April, 2012

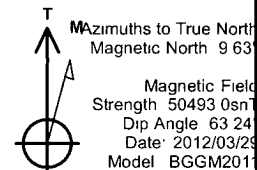
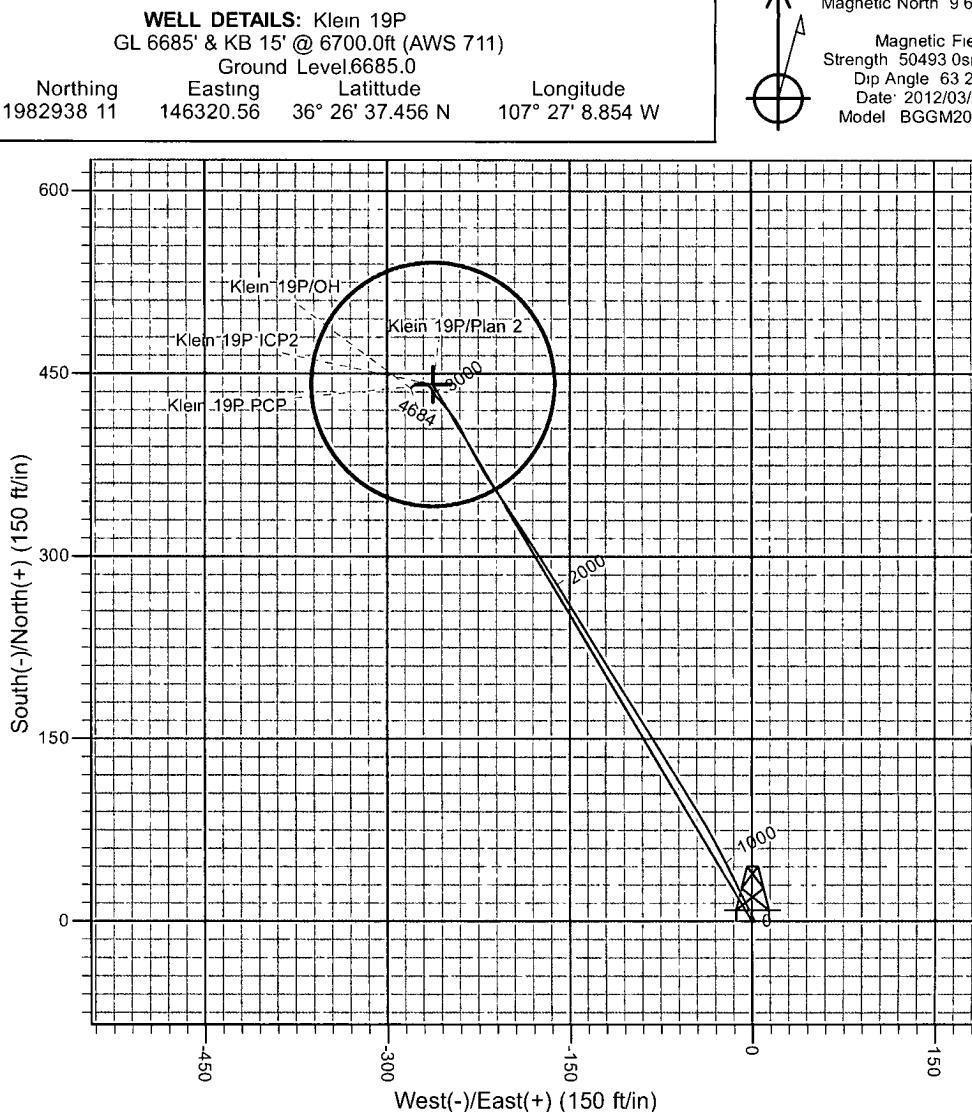
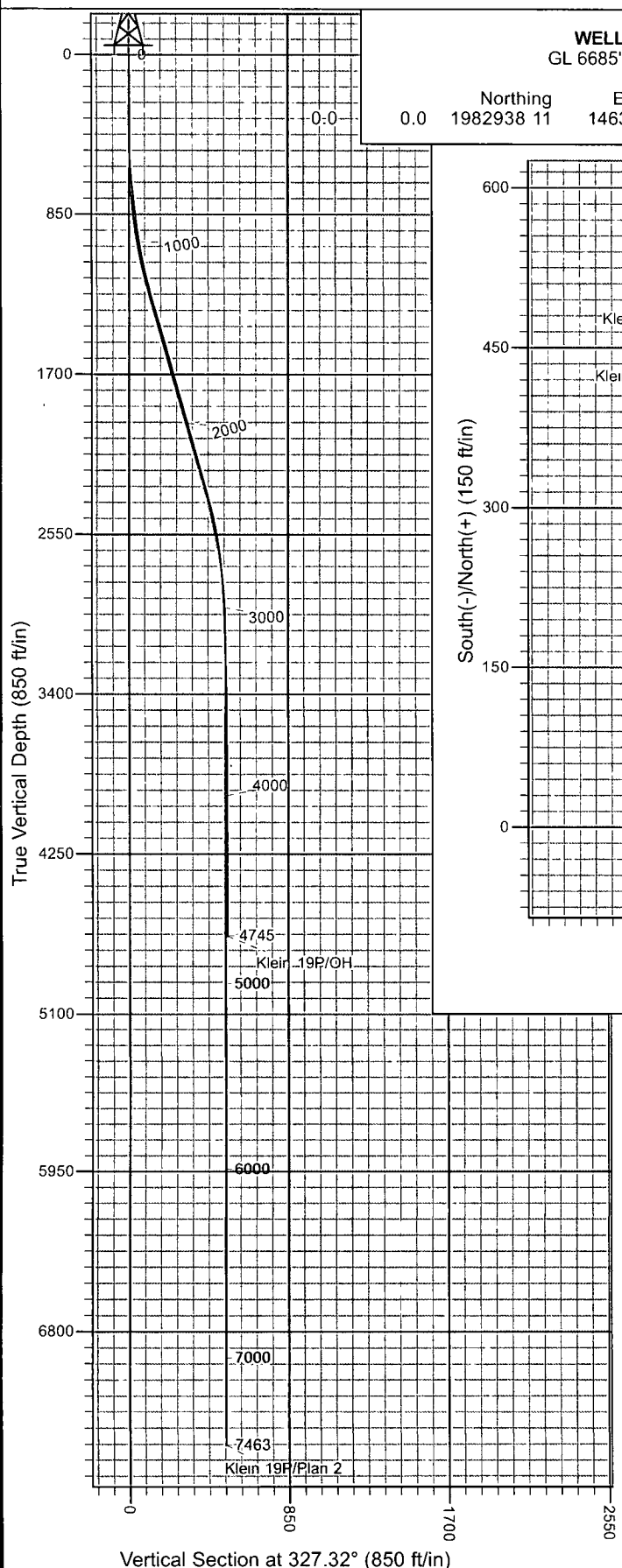
This survey is correct to the best of my knowledge and is supported by actual field data.

Notarized this date 12th of April, 2012.

Chrystal D. Wollerman

Notary Signature
County of Natrona
State of Wyoming





REFERENCE INFORMATION
 Co-ordinate (N/E) Reference: Well Klein 19P, True North
 Vertical (TVD) Reference: GL 6685' & KB 15' @ 6700.0ft (AWS 711)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: GL 6685' & KB 15' @ 6700.0ft (AWS 711)
 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

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Klein 19P
Project:	SJB (NM Central)	TVD Reference:	GL 6685' & KB 15' @ 6700 0ft (AWS 711)
Site:	SEC 34-T26N-R6W	MD Reference:	GL 6685' & KB 15' @ 6700 0ft (AWS 711)
Well:	Klein 19P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 21 Single User Db

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 34-T26N-R6W		
Site Position:		Northing:	1,982,938.11 ft
From:	Lat/Long	Easting:	146,320.56 ft
Position Uncertainty:	0 0 ft	Slot Radius:	"
		Latitude:	36° 26' 37.456 N
		Longitude:	107° 27' 8.854 W
		Grid Convergence:	-0.71 °

Well	Klein 19P, 2394' FNL 2099' FEL		
Well Position	+N/-S	0.0 ft	Northing: 1,982,938.11 ft
	+E/-W	0.0 ft	Easting: 146,320.56 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 26' 37.456 N
		Longitude:	107° 27' 8.854 W
		Ground Level:	6,685.0 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2011	2012/03/29	9.63
			(°)
			63 24
			50,493
			(nT)

Design	OH		
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	(°)
			327.32

Survey Program	Date	2012/04/12		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
274 0	4,745.0	Survey #1 (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate	
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
274.0	0.54	125.32	274.0	-0.7	1.1	-1.2	0.20	0.20	0.00	
First SDI MWD Survey										
305.0	0.55	90.90	305.0	-0.8	1.3	-1.4	1.04	0.03	-111.03	
336.0	0.51	78.51	336.0	-0.8	1.6	-1.5	0.39	-0.13	-39.97	
367.0	0.41	102.31	367.0	-0.8	1.8	-1.7	0.69	-0.32	76.77	
398.0	0.68	75.32	398.0	-0.8	2.1	-1.8	1.18	0.87	-87.06	
459.0	0.48	338.43	459.0	-0.5	2.4	-1.7	1.44	-0.33	-158.84	
520.0	2.11	329.41	520.0	0.8	1.7	-0.3	2.68	2.67	-14.79	
581.0	3.87	330.78	580.9	3.5	0.1	2.9	2.89	2.89	2.25	
643.0	5.33	334.28	642.7	7.9	-2.1	7.8	2.40	2.35	5.65	
704.0	6.68	334.85	703.3	13.7	-4.9	14.2	2.22	2.21	0.93	
766.0	6.57	334.37	764.9	20.2	-7.9	21.3	0.20	-0.18	-0.77	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Klein 19P
Project:	SJB (NM Central)	TVD Reference:	GL 6685' & KB 15' @ 6700.0ft (AWS 711)
Site:	SEC 34-T26N-R6W	MD Reference:	GL 6685' & KB 15' @ 6700.0ft (AWS 711)
Well:	Klein 19P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.21 Single User Db

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)
828.0	6.46	334.88	826.5	26.5	-10.9	28.2	0.20	-0.18	0.82
889.0	7.06	331.68	887.1	32.9	-14.2	35.4	1.16	0.98	-5.25
949.0	8.51	333.79	946.6	40.2	-17.9	43.5	2.46	2.42	3.52
1,011.0	10.05	334.52	1,007.7	49.2	-22.2	53.4	2.49	2.48	1.18
1,076.0	10.88	331.72	1,071.7	59.7	-27.6	65.1	1.50	1.28	-4.31
1,140.0	12.36	330.51	1,134.3	71.0	-33.8	78.0	2.34	2.31	-1.89
1,202.0	14.27	329.52	1,194.7	83.3	-41.0	92.2	3.10	3.08	-1.60
1,266.0	15.11	327.74	1,256.6	97.2	-49.4	108.5	1.49	1.31	-2.78
1,329.0	15.34	328.50	1,317.4	111.2	-58.2	125.0	0.48	0.37	1.21
1,393.0	16.26	328.10	1,379.0	126.0	-67.3	142.4	1.45	1.44	-0.63
1,456.0	16.20	328.50	1,439.4	141.0	-76.6	160.0	0.20	-0.10	0.63
1,520.0	16.16	327.87	1,500.9	156.2	-86.0	177.9	0.28	-0.06	-0.98
1,583.0	16.15	328.15	1,561.4	171.1	-95.3	195.4	0.12	-0.02	0.44
1,646.0	15.67	327.58	1,622.0	185.7	-104.4	212.7	0.80	-0.76	-0.90
1,710.0	16.11	327.46	1,683.6	200.5	-113.8	230.2	0.69	0.69	-0.19
1,773.0	16.38	328.23	1,744.0	215.4	-123.2	247.8	0.55	0.43	1.22
1,836.0	16.03	328.69	1,804.5	230.4	-132.4	265.4	0.59	-0.56	0.73
1,899.0	15.37	328.00	1,865.2	244.9	-141.4	282.4	1.09	-1.05	-1.10
1,963.0	15.53	328.61	1,926.9	259.4	-150.3	299.5	0.36	0.25	0.95
2,026.0	15.67	328.26	1,987.6	273.8	-159.2	316.4	0.27	0.22	-0.56
2,090.0	15.85	327.55	2,049.2	288.5	-168.4	333.8	0.41	0.28	-1.11
2,152.0	16.00	327.85	2,108.8	302.9	-177.5	350.8	0.28	0.24	0.48
2,216.0	15.71	326.74	2,170.3	317.6	-187.0	368.3	0.66	-0.45	-1.73
2,279.0	15.68	326.17	2,231.0	331.8	-196.4	385.3	0.25	-0.05	-0.90
2,342.0	15.73	325.50	2,291.6	345.9	-206.0	402.4	0.30	0.08	-1.06
2,405.0	15.42	326.24	2,352.3	359.9	-215.5	419.3	0.58	-0.49	1.17
2,468.0	14.00	330.82	2,413.3	373.6	-223.8	435.3	2.91	-2.25	7.27
2,532.0	12.50	332.18	2,475.6	386.5	-230.8	449.9	2.39	-2.34	2.13
2,595.0	10.71	332.68	2,537.3	397.7	-236.7	462.5	2.85	-2.84	0.79
2,659.0	9.25	331.38	2,600.3	407.5	-241.9	473.6	2.31	-2.28	-2.03
2,722.0	7.33	323.37	2,662.6	415.2	-246.7	482.6	3.55	-3.05	-12.71
2,785.0	6.05	319.00	2,725.2	420.9	-251.3	489.9	2.19	-2.03	-6.94
2,848.0	4.95	319.50	2,787.9	425.5	-255.2	495.9	1.75	-1.75	0.79
2,911.0	3.33	316.89	2,850.8	428.9	-258.3	500.4	2.59	-2.57	-4.14
2,974.0	2.04	326.83	2,913.7	431.1	-260.1	503.3	2.17	-2.05	15.78
3,037.0	2.23	326.85	2,976.6	433.1	-261.4	505.7	0.30	0.30	0.03
3,101.0	1.74	321.27	3,040.6	434.9	-262.7	507.9	0.82	-0.77	-8.72
3,164.0	1.92	328.62	3,103.6	436.5	-263.8	509.9	0.47	0.29	11.67
3,228.0	1.51	328.50	3,167.5	438.2	-264.8	511.8	0.64	-0.64	-0.19
3,292.0	1.25	312.13	3,231.5	439.4	-265.8	513.3	0.73	-0.41	-25.58
3,355.0	1.43	298.66	3,294.5	440.2	-267.0	514.7	0.57	0.29	-21.38
3,418.0	0.99	300.98	3,357.5	440.9	-268.1	515.9	0.70	-0.70	3.68
3,481.0	0.47	312.68	3,420.5	441.3	-268.8	516.6	0.85	-0.83	18.57
3,545.0	0.47	303.35	3,484.5	441.6	-269.2	517.1	0.12	0.00	-14.58
3,608.0	0.47	291.69	3,547.5	441.9	-269.7	517.5	0.15	0.00	-18.51
3,672.0	0.47	297.74	3,611.5	442.1	-270.1	518.0	0.08	0.00	9.45
3,735.0	0.47	293.08	3,674.5	442.3	-270.6	518.4	0.06	0.00	-7.40
3,798.0	0.50	281.93	3,737.5	442.5	-271.1	518.8	0.16	0.05	-17.70
3,861.0	0.53	267.46	3,800.5	442.5	-271.7	519.2	0.21	0.05	-22.97
3,925.0	0.52	266.13	3,864.5	442.5	-272.3	519.5	0.02	-0.02	-2.08
3,988.0	0.54	256.97	3,927.5	442.4	-272.8	519.7	0.14	0.03	-14.54
4,051.0	0.68	253.85	3,990.5	442.2	-273.5	519.9	0.23	0.22	-4.95
4,114.0	0.57	246.98	4,053.5	442.0	-274.1	520.1	0.21	-0.17	-10.90
4,177.0	0.77	256.02	4,116.5	441.8	-274.8	520.2	0.36	0.32	14.35

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Klein 19P
Project:	SJB (NM Central)	TVD Reference:	GL 6685' & KB 15' @ 6700.0ft (AWS 711)
Site:	SEC 34-T26N-R6W	MD Reference:	GL 6685' & KB 15' @ 6700 0ft (AWS 711)
Well:	Klein 19P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.21 Single User Db

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)
4,240.0	0.84	246.21	4,179.4	441.5	-275.7	520.5	0.24	0.11	-15.57
4,304.0	0.72	237.12	4,243.4	441.1	-276.4	520.5	0.27	-0.19	-14.20
4,367.0	0.79	244.86	4,306.4	440.7	-277.2	520.6	0.20	0.11	12.29
4,431.0	0.76	248.01	4,370.4	440.3	-278.0	520.7	0.08	-0.05	4.92
4,494.0	0.76	233.95	4,433.4	439.9	-278.7	520.8	0.30	0.00	-22.32
4,557.0	0.69	235.61	4,496.4	439.5	-279.3	520.7	0.12	-0.11	2.63
4,620.0	0.64	227.39	4,559.4	439.0	-279.9	520.7	0.17	-0.08	-13.05
4,684.0	0.74	222.44	4,623.4	438.5	-280.4	520.5	0.18	0.16	-7.73
4,745.0	0.76	208.12	4,684.4	437.8	-280.9	520.2	0.31	0.03	-23.48
Last SDI MWD Survey									

Checked By: _____	Approved By: _____	Date: _____
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