

RCVD JUN 29 '12

OIL CONS. DIV.

DIST. 3

Form C-102

Revised October 12, 2005

DISTRICT I

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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 87506

OIL CONSERVATION DIVISION

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

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35229	² Pool Code 97232 / 71599	³ Pool Name BASIN MANCOS / BASIN DAKOTA
⁴ Property Code 31768	⁵ Property Name HODGES	⁶ Well Number 12E
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6686'

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
M	34	26N	8W		203'	SOUTH	91'	WEST	SAN JUAN

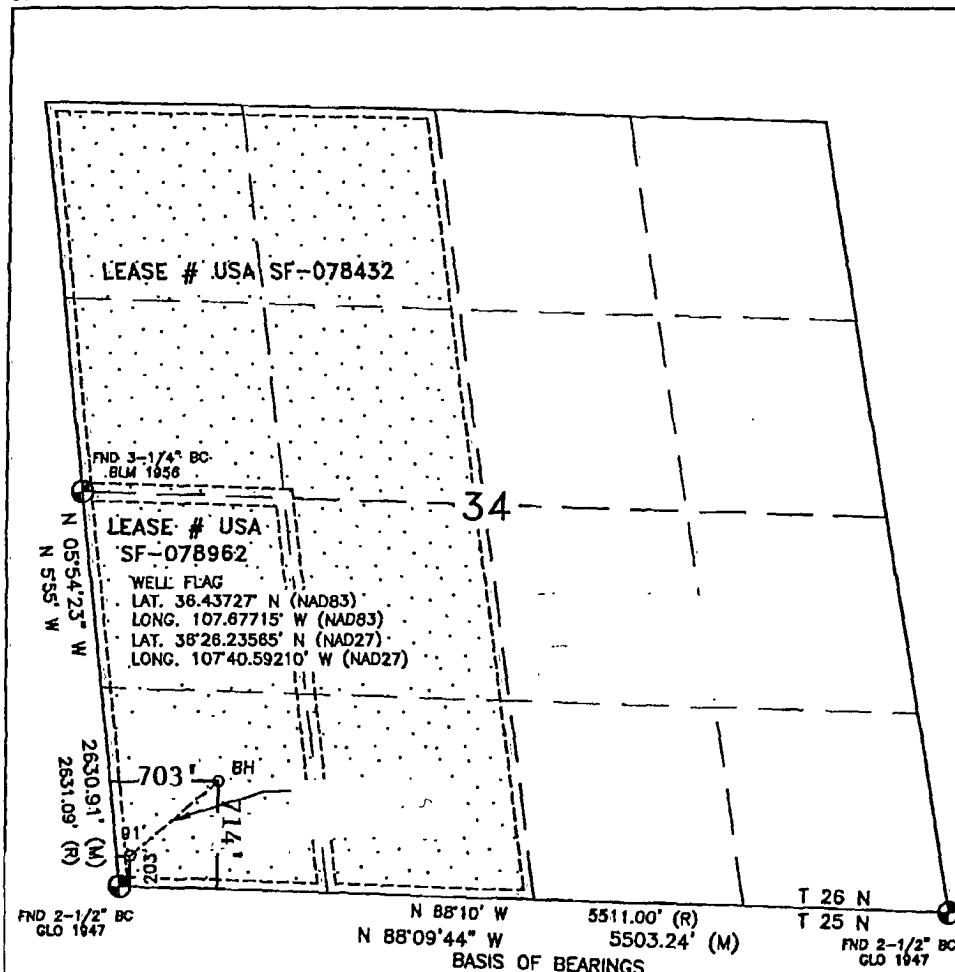
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	34	26N	8W		714'	SOUTH	703'	WEST	SAN JUAN

¹² Dedicated Acres 320.00 ACRES - W/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 hereby entered by the division.

Signature _____ Date _____

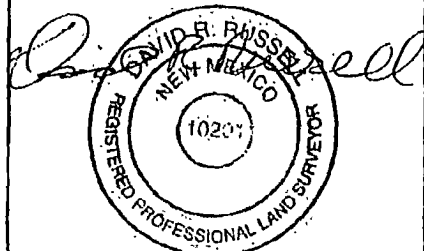
Marie E. Jaramillo 6/27/12
Printed Name¹⁸ SURVEYOR CERTIFICATION

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.

MARCH 18, 2010

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

A

75

Operator CONOCOPHILLIPS COMPANY	Legal WellName HODGES #12E	API / UWI 3004535229	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 034-026N-008W-M	N/S Dist (ft) 203.00	N/S Ref FSL	E/W Dist (ft) 91.00	E/W Ref FWL

Survey Data					
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
5/5/2012	0.00	0.00	0.00	IncAzi-MWD	Scientific Drilling
4/30/2012	130.00	0.75		Inc-WL	Mo Te Drilling Inc
4/30/2012	235.00	1.00		Inc-WL	Mo Te Drilling Inc
5/5/2012	298.00	1.56	30.96	IncAzi-MWD	Scientific Drilling
5/5/2012	359.00	1.55	33.86	IncAzi-MWD	Scientific Drilling
5/5/2012	421.00	1.66	26.13	IncAzi-MWD	Scientific Drilling
5/5/2012	482.00	0.74	24.68	IncAzi-MWD	Scientific Drilling
5/5/2012	543.00	0.35	18.70	IncAzi-MWD	Scientific Drilling
5/5/2012	604.00	0.26	228.05	IncAzi-MWD	Scientific Drilling
5/5/2012	665.00	0.70	202.48	IncAzi-MWD	Scientific Drilling
5/5/2012	726.00	0.43	187.02	IncAzi-MWD	Scientific Drilling
5/6/2012	787.00	0.43	211.34	IncAzi-MWD	Scientific Drilling
5/6/2012	817.00	0.81	206.04	IncAzi-MWD	Scientific Drilling
5/6/2012	881.00	0.51	219.51	IncAzi-MWD	Scientific Drilling
5/6/2012	944.00	0.55	237.01	IncAzi-MWD	Scientific Drilling
5/6/2012	1,007.00	0.64	216.65	IncAzi-MWD	Scientific Drilling
5/6/2012	1,070.00	0.71	231.97	IncAzi-MWD	Scientific Drilling
5/6/2012	1,133.00	0.78	247.11	IncAzi-MWD	Scientific Drilling
5/6/2012	1,197.00	1.19	240.87	IncAzi-MWD	Scientific Drilling
5/6/2012	1,228.00	1.08	244.72	IncAzi-MWD	Scientific Drilling
5/6/2012	1,260.00	0.45	245.88	IncAzi-MWD	Scientific Drilling
5/6/2012	1,291.00	0.30	235.91	IncAzi-MWD	Scientific Drilling
5/6/2012	1,323.00	0.13	53.85	IncAzi-MWD	Scientific Drilling
5/6/2012	1,355.00	0.61	95.70	IncAzi-MWD	Scientific Drilling
5/6/2012	1,386.00	0.98	71.62	IncAzi-MWD	Scientific Drilling
5/6/2012	1,418.00	1.41	58.57	IncAzi-MWD	Scientific Drilling
5/6/2012	1,449.00	2.13	47.21	IncAzi-MWD	Scientific Drilling
5/6/2012	1,481.00	2.67	56.74	IncAzi-MWD	Scientific Drilling
5/6/2012	1,513.00	3.18	49.98	IncAzi-MWD	Scientific Drilling
5/6/2012	1,544.00	3.82	56.38	IncAzi-MWD	Scientific Drilling
5/6/2012	1,576.00	4.54	54.45	IncAzi-MWD	Scientific Drilling
5/6/2012	1,608.00	5.27	58.30	IncAzi-MWD	Scientific Drilling
5/6/2012	1,639.00	5.60	58.98	IncAzi-MWD	Scientific Drilling
5/6/2012	1,671.00	6.60	58.52	IncAzi-MWD	Scientific Drilling
5/6/2012	1,702.00	6.50	56.78	IncAzi-MWD	Scientific Drilling
5/6/2012	1,734.00	7.35	58.70	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 _____

RCVD JUN 29 '12

DIL CONS. DIV.

DIST. E

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
5/6/2012	1,765.00	7.99	57.84	IncAzi-MWD	Scientific Drilling
5/6/2012	1,797.00	8.93	54.63	IncAzi-MWD	Scientific Drilling
5/6/2012	1,829.00	9.41	51.26	IncAzi-MWD	Scientific Drilling
5/6/2012	1,860.00	10.37	50.25	IncAzi-MWD	Scientific Drilling
5/6/2012	1,892.00	10.52	48.42	IncAzi-MWD	Scientific Drilling
5/6/2012	1,924.00	11.00	48.41	IncAzi-MWD	Scientific Drilling
5/6/2012	1,956.00	11.69	47.95	IncAzi-MWD	Scientific Drilling
5/6/2012	1,987.00	12.15	47.31	IncAzi-MWD	Scientific Drilling
5/6/2012	2,018.00	12.41	47.60	IncAzi-MWD	Scientific Drilling
5/6/2012	2,050.00	12.99	47.29	IncAzi-MWD	Scientific Drilling
5/6/2012	2,082.00	12.67	47.92	IncAzi-MWD	Scientific Drilling
5/6/2012	2,114.00	12.75	47.09	IncAzi-MWD	Scientific Drilling
5/6/2012	2,145.00	13.03	46.46	IncAzi-MWD	Scientific Drilling
5/6/2012	2,177.00	14.10	44.38	IncAzi-MWD	Scientific Drilling
5/6/2012	2,208.00	14.73	44.50	IncAzi-MWD	Scientific Drilling
5/6/2012	2,240.00	15.05	47.26	IncAzi-MWD	Scientific Drilling
5/6/2012	2,271.00	15.10	47.92	IncAzi-MWD	Scientific Drilling
5/6/2012	2,303.00	15.84	48.89	IncAzi-MWD	Scientific Drilling
5/6/2012	2,334.00	16.42	48.18	IncAzi-MWD	Scientific Drilling
5/6/2012	2,366.00	16.91	48.32	IncAzi-MWD	Scientific Drilling
5/6/2012	2,397.00	18.09	48.28	IncAzi-MWD	Scientific Drilling
5/6/2012	2,429.00	19.28	48.36	IncAzi-MWD	Scientific Drilling
5/7/2012	2,461.00	19.74	48.93	IncAzi-MWD	Scientific Drilling
5/7/2012	2,492.00	20.19	49.78	IncAzi-MWD	Scientific Drilling
5/7/2012	2,524.00	20.72	49.51	IncAzi-MWD	Scientific Drilling
5/7/2012	2,555.00	21.43	49.96	IncAzi-MWD	Scientific Drilling
5/7/2012	2,587.00	21.58	49.03	IncAzi-MWD	Scientific Drilling
5/7/2012	2,619.00	21.72	50.27	IncAzi-MWD	Scientific Drilling
5/7/2012	2,650.00	22.32	50.64	IncAzi-MWD	Scientific Drilling
5/7/2012	2,682.00	23.15	50.09	IncAzi-MWD	Scientific Drilling
5/7/2012	2,713.00	23.46	48.98	IncAzi-MWD	Scientific Drilling
5/7/2012	2,745.00	23.96	47.76	IncAzi-MWD	Scientific Drilling
5/7/2012	2,776.00	24.21	47.67	IncAzi-MWD	Scientific Drilling
5/7/2012	2,808.00	24.59	48.14	IncAzi-MWD	Scientific Drilling
5/7/2012	2,839.00	24.71	48.23	IncAzi-MWD	Scientific Drilling
5/7/2012	2,903.00	25.49	47.67	IncAzi-MWD	Scientific Drilling
5/7/2012	2,966.00	25.07	47.17	IncAzi-MWD	Scientific Drilling
5/7/2012	3,030.00	25.24	46.23	IncAzi-MWD	Scientific Drilling
5/7/2012	3,093.00	23.85	45.36	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 _____

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
5/7/2012	3,156.00	22.79	45.25	IncAzi-MWD	Scientific Drilling
5/7/2012	3,220.00	22.38	44.28	IncAzi-MWD	Scientific Drilling
5/7/2012	3,283.00	22.87	44.78	IncAzi-MWD	Scientific Drilling
5/7/2012	3,346.00	23.50	44.87	IncAzi-MWD	Scientific Drilling
5/7/2012	3,409.00	22.39	46.56	IncAzi-MWD	Scientific Drilling
5/7/2012	3,471.00	20.29	47.12	IncAzi-MWD	Scientific Drilling
5/7/2012	3,535.00	19.63	47.58	IncAzi-MWD	Scientific Drilling
5/7/2012	3,598.00	18.89	49.01	IncAzi-MWD	Scientific Drilling
5/7/2012	3,661.00	16.91	51.21	IncAzi-MWD	Scientific Drilling
5/7/2012	3,724.00	16.00	53.56	IncAzi-MWD	Scientific Drilling
5/7/2012	3,788.00	14.13	53.96	IncAzi-MWD	Scientific Drilling
5/7/2012	3,850.00	11.68	55.26	IncAzi-MWD	Scientific Drilling
5/7/2012	3,914.00	10.41	58.40	IncAzi-MWD	Scientific Drilling
5/7/2012	3,977.00	8.47	58.81	IncAzi-MWD	Scientific Drilling
5/7/2012	4,041.00	6.78	59.36	IncAzi-MWD	Scientific Drilling
5/7/2012	4,166.00	4.13	58.33	IncAzi-MWD	Scientific Drilling
5/7/2012	4,229.00	3.70	66.23	IncAzi-MWD	Scientific Drilling
5/7/2012	4,278.00	2.72	79.40	IncAzi-MWD	Scientific Drilling
5/7/2012	4,335.00	1.58	94.72	Projection	Scientific Drilling
5/22/2012	7,001.00	2.50		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.

Alt Galt

Subscribed and sworn to me this 6/27/12

Manuel S. Gamallo

Notary Public in and for San Juan County, New Mexico

My Commission expires 7/28/14

ConocoPhillips

ConocoPhillips

SJB (NM Central)
SEC 34-T26N-R8W
Hodges 12E

OH

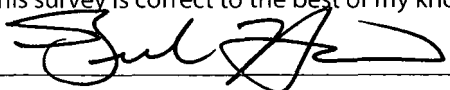
API# 3004535229

Design: OH

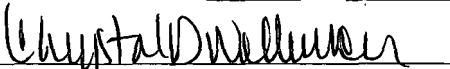
Standard Survey Report

16 May, 2012

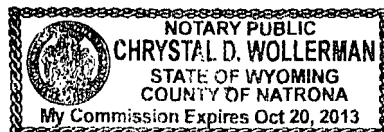
This survey is correct to the best of my knowledge and is supported by actual field data.



Notarized this date 17th of May, 2012.



Notary Signature
County of Natrona
State of Wyoming

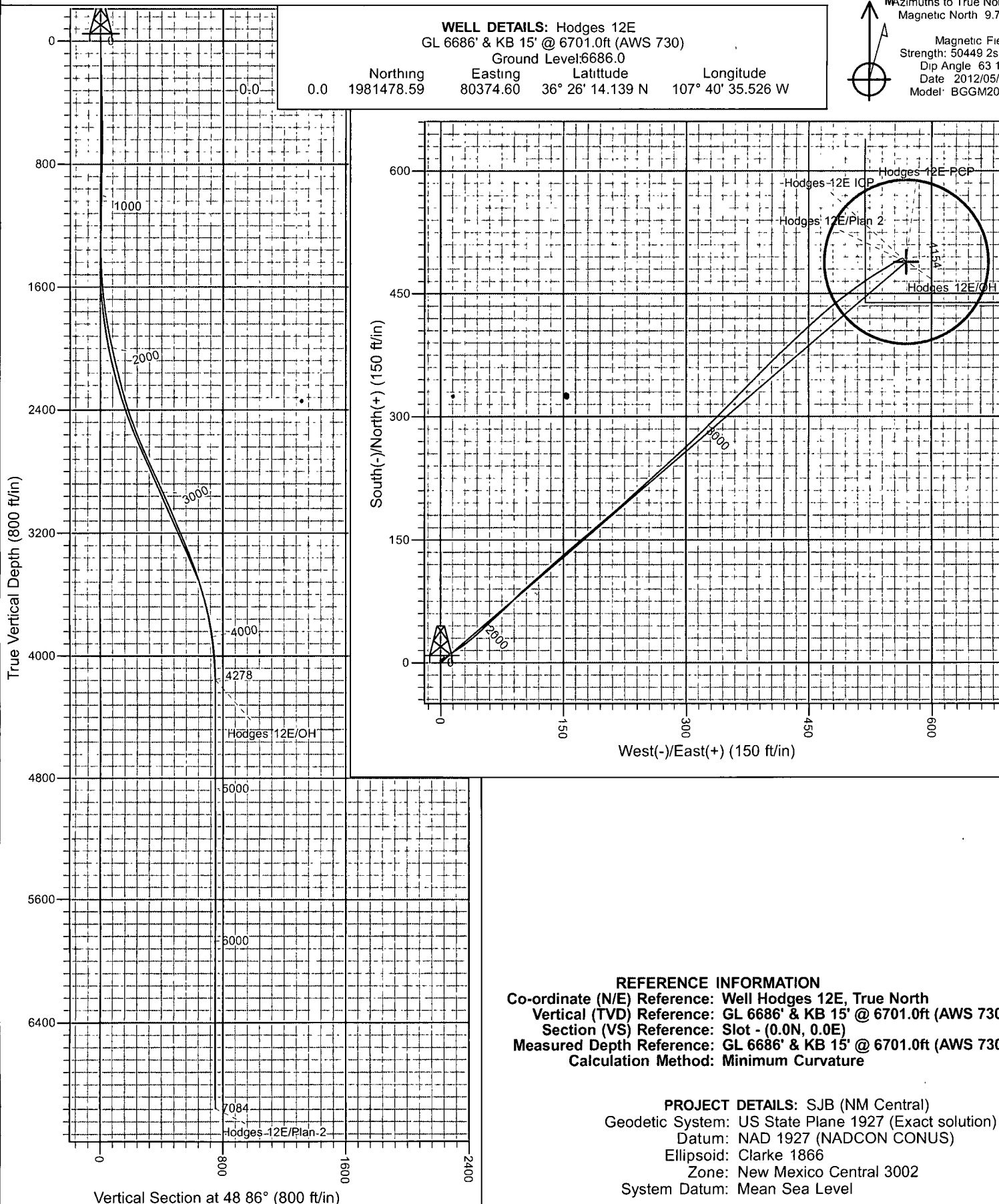


ConocoPhillips

Project: SJB (NM Central)
 Site: SEC 34-T26N-R8W
 Well: Hodges 12E
 Wellbore: OH
 Design: OH



↑ T
 Azimuths to True North
 Magnetic North 9.71°
 Magnetic Field
 Strength: 50449 2snT
 Dip Angle 63.19°
 Date 2012/05/01
 Model: BGGM2011



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hodges 12E
Project:	SJB (NM Central)	TVD Reference:	GL 6686' & KB 15' @ 6701.0ft (AWS 730)
Site:	SEC 34-T26N-R8W	MD Reference:	GL 6686' & KB 15' @ 6701.0ft (AWS 730)
Well:	Hodges 12E	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-R8W		
Site Position:		Northing:	1,981,478.59 ft
From:	Lat/Long	Easting:	80,374.60 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 26' 14.139 N
		Longitude:	107° 40' 35.526 W
		Grid Convergence:	-0.85 °

Well	Hodges 12E, 203' FSL 91' 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' 14.139 N
		Longitude:	107° 40' 35.526 W
		Ground Level:	6,686.0 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2011	2012/05/01	9.71
			Dip Angle
			(°)
			Field Strength
			(nT)
			63.19
			50,449

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
			(°)
			48.86

Survey Program	Date 2012/05/16		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		Description
298.0	4,278.0	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
298.0	1.56	30.96	298.0	3.5	2.1	3.9	0.52	0.52	0.00
First SDI MWD Survey									
359.0	1.55	33.86	358.9	4.9	3.0	5.4	0.13	-0.02	4.75
421.0	1.66	26.13	420.9	6.4	3.8	7.1	0.39	0.18	-12.47
482.0	0.74	24.68	481.9	7.5	4.4	8.3	1.51	-1.51	-2.38
543.0	0.35	18.70	542.9	8.1	4.6	8.8	0.65	-0.64	-9.80
604.0	0.26	228.05	603.9	8.1	4.6	8.8	0.97	-0.15	-246.97
665.0	0.70	202.48	664.9	7.7	4.3	8.3	0.78	0.72	-41.92
726.0	0.43	187.02	725.9	7.1	4.2	7.8	0.50	-0.44	-25.34
787.0	0.43	211.34	786.9	6.7	4.0	7.4	0.30	0.00	39.87
817.0	0.81	206.04	816.9	6.4	3.9	7.1	1.28	1.27	-17.67
881.0	0.51	219.51	880.9	5.8	3.5	6.4	0.52	-0.47	21.05

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hodges 12E
Project:	SJB (NM Central)	TVD Reference:	GL 6686' & KB 15' @ 6701.0ft (AWS 730)
Site:	SEC 34-T26N-R8W	MD Reference:	GL 6686' & KB 15' @ 6701.0ft (AWS 730)
Well:	Hodges 12E	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)	
944.0	0.55	237.01	943.9	5.4	3.0	5.9	0.26	0.06	27.78	
1,007.0	0.64	216.65	1,006.9	5.0	2.6	5.2	0.36	0.14	-32.32	
1,070.0	0.71	231.97	1,069.9	4.5	2.1	4.5	0.31	0.11	24.32	
1,133.0	0.78	247.11	1,132.9	4.0	1.4	3.7	0.33	0.11	24.03	
1,197.0	1.19	240.87	1,196.9	3.6	0.4	2.6	0.66	0.64	-9.75	
1,228.0	1.08	244.72	1,227.9	3.3	-0.2	2.0	0.43	-0.35	12.42	
1,260.0	0.45	245.88	1,259.9	3.1	-0.6	1.6	1.97	-1.97	3.63	
1,291.0	0.30	235.91	1,290.9	3.0	-0.7	1.4	0.53	-0.48	-32.16	
1,323.0	0.13	53.85	1,322.9	3.0	-0.8	1.4	1.34	-0.53	556.06	
1,355.0	0.61	95.70	1,354.9	3.0	-0.6	1.5	1.63	1.50	130.78	
1,386.0	0.98	71.62	1,385.8	3.0	-0.2	1.9	1.58	1.19	-77.68	
1,418.0	1.41	58.57	1,417.8	3.3	0.4	2.5	1.58	1.34	-40.78	
1,449.0	2.13	47.21	1,448.8	3.9	1.2	3.5	2.57	2.32	-36.65	
1,481.0	2.67	56.74	1,480.8	4.7	2.2	4.8	2.09	1.69	29.78	
1,513.0	3.18	49.98	1,512.8	5.7	3.5	6.4	1.92	1.59	-21.13	
1,544.0	3.82	56.38	1,543.7	6.8	5.1	8.3	2.42	2.06	20.65	
1,576.0	4.54	54.45	1,575.6	8.2	7.0	10.6	2.29	2.25	-6.03	
1,608.0	5.27	58.30	1,607.5	9.7	9.3	13.3	2.50	2.28	12.03	
1,639.0	5.60	58.98	1,638.4	11.2	11.8	16.2	1.08	1.06	2.19	
1,671.0	6.60	58.52	1,670.2	13.0	14.7	19.6	3.13	3.13	-1.44	
1,702.0	6.50	56.78	1,701.0	14.9	17.7	23.1	0.72	-0.32	-5.61	
1,734.0	7.35	58.70	1,732.7	16.9	20.9	26.9	2.75	2.66	6.00	
1,765.0	7.99	57.84	1,763.5	19.1	24.5	31.0	2.10	2.06	-2.77	
1,797.0	8.93	54.63	1,795.1	21.7	28.4	35.6	3.29	2.94	-10.03	
1,829.0	9.41	51.26	1,826.7	24.8	32.4	40.7	2.25	1.50	-10.53	
1,860.0	10.37	50.25	1,857.2	28.2	36.5	46.0	3.15	3.10	-3.26	
1,892.0	10.52	48.42	1,888.7	31.9	40.9	51.8	1.14	0.47	-5.72	
1,924.0	11.00	48.41	1,920.1	35.9	45.4	57.8	1.50	1.50	-0.03	
1,956.0	11.69	47.95	1,951.5	40.1	50.1	64.1	2.17	2.16	-1.44	
1,987.0	12.15	47.31	1,981.9	44.4	54.8	70.5	1.54	1.48	-2.06	
2,018.0	12.41	47.60	2,012.1	48.9	59.7	77.1	0.86	0.84	0.94	
2,050.0	12.99	47.29	2,043.4	53.6	64.9	84.1	1.82	1.81	-0.97	
2,082.0	12.67	47.92	2,074.6	58.4	70.1	91.2	1.09	-1.00	1.97	
2,114.0	12.75	47.09	2,105.8	63.2	75.3	98.3	0.62	0.25	-2.59	
2,145.0	13.03	46.46	2,136.0	67.9	80.4	105.2	1.01	0.90	-2.03	
2,177.0	14.10	44.38	2,167.1	73.2	85.7	112.7	3.67	3.34	-6.50	
2,208.0	14.73	44.50	2,197.1	78.7	91.1	120.4	2.03	2.03	0.39	
2,240.0	15.05	47.26	2,228.1	84.4	97.0	128.6	2.43	1.00	8.63	
2,271.0	15.10	47.92	2,258.0	89.9	103.0	136.7	0.58	0.16	2.13	
2,303.0	15.84	48.89	2,288.8	95.5	109.3	145.2	2.45	2.31	3.03	
2,334.0	16.42	48.18	2,318.6	101.2	115.8	153.8	1.98	1.87	-2.29	
2,366.0	16.91	48.32	2,349.3	107.3	122.6	163.0	1.54	1.53	0.44	
2,397.0	18.09	48.28	2,378.8	113.5	129.6	172.3	3.81	3.81	-0.13	
2,429.0	19.28	48.36	2,409.1	120.4	137.3	182.5	3.72	3.72	0.25	
2,461.0	19.74	48.93	2,439.3	127.4	145.3	193.2	1.56	1.44	1.78	
2,492.0	20.19	49.78	2,468.4	134.3	153.3	203.8	1.73	1.45	2.74	
2,524.0	20.72	49.51	2,498.4	141.6	161.8	215.0	1.68	1.66	-0.84	
2,555.0	21.43	49.96	2,527.4	148.8	170.3	226.1	2.35	2.29	1.45	
2,587.0	21.58	49.03	2,557.1	156.4	179.3	237.9	1.16	0.47	-2.91	
2,619.0	21.72	50.27	2,586.9	164.0	188.3	249.7	1.50	0.44	3.88	
2,650.0	22.32	50.64	2,615.6	171.4	197.2	261.3	1.99	1.94	1.19	
2,682.0	23.15	50.09	2,645.1	179.3	206.7	273.7	2.68	2.59	-1.72	
2,713.0	23.46	48.98	2,673.6	187.3	216.1	285.9	1.73	1.00	-3.58	
2,745.0	23.96	47.76	2,702.9	195.8	225.7	298.8	2.19	1.56	-3.81	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Hodges 12E
Project:	SJB (NM Central)	TVD Reference:	GL 6686' & KB 15' @ 6701.0ft (AWS 730)
Site:	SEC 34-T26N-R8W	MD Reference:	GL 6686' & KB 15' @ 6701 0ft (AWS 730)
Well:	Hodges 12E	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)
2,776.0	24.21	47.67	2,731.2	204.3	235.0	311.4	0.82	0.81	-0.29
2,808.0	24.59	48.14	2,760.3	213.2	244.9	324.7	1.33	1.19	1.47
2,839.0	24.71	48.23	2,788.5	221.8	254.5	337.6	0.41	0.39	0.29
2,903.0	25.49	47.67	2,846.5	240.0	274.6	364.7	1.27	1.22	-0.88
2,966.0	25.07	47.17	2,903.4	258.2	294.5	391.6	0.75	-0.67	-0.79
3,030.0	25.24	46.23	2,961.4	276.9	314.3	418.8	0.68	0.27	-1.47
3,093.0	23.85	45.36	3,018.7	295.1	333.0	444.9	2.28	-2.21	-1.38
3,156.0	22.79	45.25	3,076.5	312.6	350.7	469.8	1.68	-1.68	-0.17
3,220.0	22.38	44.28	3,135.6	330.1	368.1	494.3	0.87	-0.64	-1.52
3,283.0	22.87	44.78	3,193.8	347.4	385.1	518.5	0.84	0.78	0.79
3,346.0	23.50	44.87	3,251.7	365.0	402.5	543.3	1.00	1.00	0.14
3,409.0	22.39	46.56	3,309.7	382.1	420.1	567.8	2.05	-1.76	2.68
3,471.0	20.29	47.12	3,367.4	397.5	436.6	590.3	3.40	-3.39	0.90
3,535.0	19.63	47.58	3,427.6	412.3	452.6	612.2	1.06	-1.03	0.72
3,598.0	18.89	49.01	3,487.1	426.2	468.1	632.9	1.39	-1.17	2.27
3,661.0	16.91	51.21	3,547.0	438.6	483.0	652.3	3.32	-3.14	3.49
3,724.0	16.00	53.56	3,607.4	449.5	497.1	670.1	1.79	-1.44	3.73
3,788.0	14.13	53.96	3,669.2	459.3	510.5	686.7	2.93	-2.92	0.63
3,850.0	11.68	55.26	3,729.7	467.4	521.8	700.5	3.98	-3.95	2.10
3,914.0	10.41	58.40	3,792.5	474.1	532.1	712.6	2.20	-1.98	4.91
3,977.0	8.47	58.81	3,854.6	479.5	540.9	722.8	3.08	-3.08	0.65
4,041.0	6.78	59.36	3,918.0	483.8	548.2	731.1	2.64	-2.64	0.86
4,104.0	5.44	55.30	3,980.7	487.4	553.8	737.8	2.23	-2.13	-6.44
4,166.0	4.13	58.33	4,042.5	490.3	558.1	742.9	2.15	-2.11	4.89
4,229.0	3.70	66.23	4,105.3	492.3	561.9	747.1	1.09	-0.68	12.54
4,278.0	2.72	79.40	4,154.2	493.1	564.5	749.6	2.49	-2.00	26.88

Last SDI MWD Survey

Checked By: _____ Approved By: _____ Date: _____