

DISTRICT I
1626 W. French Dr., Hobbs, N.M. 88240

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

DISTRICT III
1000 Elv 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 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 30-045-34555		*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 7085	*Property Name WM HANLEY		*Well Number #1F
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP		*Elevation 5558'

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
N	18	29N	10W		870'	SOUTH	1500'	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
L	18	29N	10W	3	1444'	SOUTH	804'	WEST	SAN JUAN
*Dedicated Acres 307.25 Acres - (W/2)			*Joint or Infill		*Consolidation Code		*Order No.		

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

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 pooling agreement or a compulsory pooling order heretofore entered by the division.

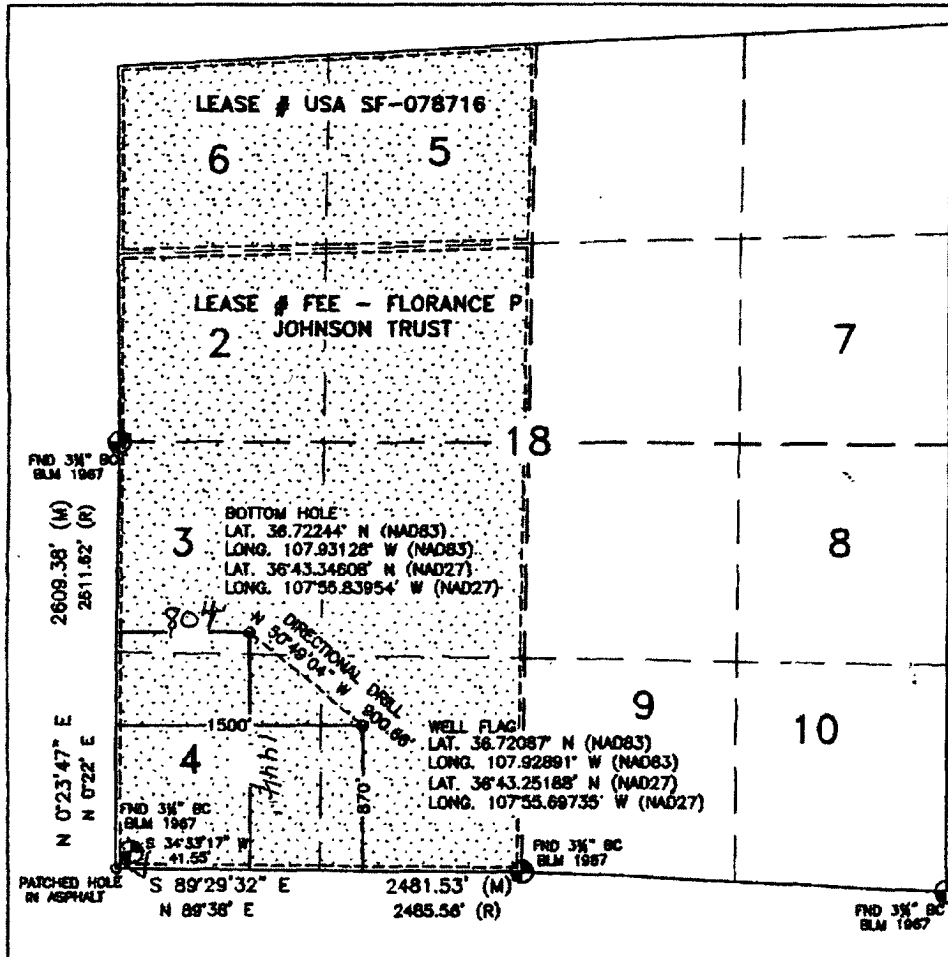
Signature: *Shonda Rogers* Date: 6-19-08
Printed Name: Shonda Rogers

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.

Date of Survey: July 17, 2007
Signature and Seal of Professional Surveyor:

Certificate Number: 10201



HB

Job Number: NM08002
 Company: CONOCOPHILLIPS
 Lease/Well: WM HANLEY #1F
 Location: SECTION 18
 Rig Name: AZTEC 730
 RKB: ☐
 G.L. or M.S.L.: ☐

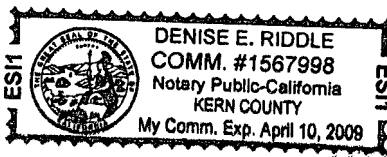
State/Country: NEW MEXICO
 Declination: 10.37
 Grid: ☐
 File name: C:\WINSERVE\NM08002.SVY
 Date/Time: 12-Feb-08 / 17:42
 Curve Name: AS DRILLED

Hathaway Burnham LLC

RCVD JUN 20 '08

OIL CONS. DIV.

DIST. 3



WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 309.45

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	00	.00	00	.00	.00	.00	.00	00	00
352.00	1.90	177.40	351.94	-5.83	.26	-3.91	5.84	177.40	.54
412.00	1.80	217.70	411.91	-7.57	-.27	-4.60	7.57	182.02	2.13
473.00	1.70	209.70	472.88	-9.11	-1.30	-4.79	9.21	188.12	.43
534.00	1.70	224.50	533.85	-10.54	-2.38	-4.86	10.81	192.74	.72
595.00	2.10	272.60	594.82	-11.14	-4.13	-3.89	11.88	200.36	2.61
656.00	3.20	297.30	655.76	-10.31	-6.76	-1.33	12.33	213.27	2.56
717.00	4.60	308.70	716.62	-8.00	-10.19	2.78	12.95	231.86	2.61
779.00	6.50	316.00	778.32	-3.92	-14.56	8.76	15.08	254.94	3.26
841.00	8.40	316.00	839.80	1.86	-20.15	16.74	20.23	275.29	3.06
904.00	10.60	316.30	901.93	9.36	-27.35	27.07	28.91	288.90	3.49
967.00	13.50	314.80	963.53	18.74	-36.57	40.15	41.09	297.13	4.63
1030.00	15.70	315.50	1024.50	30.00	-47.77	55.95	56.41	302.13	3.50
1094.00	18.20	315.20	1085.71	43.27	-60.88	74.50	74.69	305.40	3.91
1156.00	20.90	313.30	1144.13	57.73	-75.75	95.18	95.24	307.31	4.47
1219.00	21.00	312.00	1202.97	72.99	-92.32	117.67	117.69	308.33	.75
1311.00	21.11	311.70	1288.83	95.04	-116.94	150.69	150.69	309.10	.17
1405.00	20.50	309.90	1376.70	116.86	-142.21	184.06	184.06	309.41	.94
1499.00	20.50	310.10	1464.74	138.02	-167.43	216.98	216.98	309.50	.07
1562.00	20.20	310.10	1523.81	152.13	-184.18	238.89	238.89	309.56	.48
1658.00	20.30	309.30	1613.88	173.35	-209.75	272.11	272.11	309.57	.31
1719.00	20.40	309.00	1671.07	186.75	-226.20	293.33	293.33	309.54	.24
1783.00	21.20	309.60	1730.90	201.14	-243.78	316.05	316.05	309.53	1.29
1846.00	21.40	310.10	1789.60	215.81	-261.35	338.94	338.94	309.55	.43
1907.00	21.20	310.10	1846.43	230.08	-278.30	361.09	361.10	309.58	.33

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1970.00	22.50	311.50	1904.90	245.41	-296.05	384.53	384.54	309.66	2.22
2031.00	22.60	310.70	1961.24	260.78	-313.67	407.92	407.92	309.74	.53
2094.00	22.00	310.10	2019.53	276.28	-331.88	431.82	431.82	309.78	1.02
2156.00	20.30	309.30	2077.35	290.57	-349.08	454.19	454.19	309.77	2.78
2218.00	19.80	309.60	2135.59	304.08	-365.50	475.44	475.45	309.76	.82
2282.00	19.30	309.60	2195.90	317.73	-382.00	496.86	496.86	309.75	.78
2342.00	18.40	308.70	2252.68	329.97	-397.03	516.24	516.25	309.73	1.58
2405.00	17.80	309.10	2312.56	342.26	-412.26	535.81	535.82	309.70	.97
2468.00	17.10	309.00	2372.66	354.16	-426.93	554.71	554.71	309.68	1.11
2532.00	16.90	309.50	2433.87	366.00	-441.42	573.42	573.42	309.66	.39
2596.00	16.40	310.90	2495.19	377.83	-455.43	591.75	591.76	309.68	1.00
2657.00	17.20	310.30	2553.58	389.31	-468.82	609.38	609.38	309.71	1.34
2721.00	18.20	309.90	2614.55	401.84	-483.70	628.84	628.84	309.72	1.57
2783.00	19.50	307.60	2673.23	414.36	-499.33	648.86	648.87	309.69	2.41
2843.00	20.20	307.10	2729.66	426.72	-515.53	669.22	669.22	309.62	1.20
2906.00	18.80	307.10	2789.04	439.41	-532.30	690.23	690.23	309.54	2.22
2970.00	18.50	307.20	2849.68	451.77	-548.61	710.68	710.68	309.47	.47
3034.00	20.00	308.80	2910.10	464.76	-565.23	731.77	731.77	309.43	2.48
3097.00	20.20	309.90	2969.27	478.49	-581.97	753.42	753.42	309.43	.68
3161.00	20.30	310.10	3029.31	492.73	-598.94	775.57	775.57	309.44	.19
3224.00	19.80	310.70	3088.49	506.73	-615.39	797.17	797.17	309.47	.86
3285.00	17.50	310.00	3146.29	519.36	-630.25	816.67	816.67	309.49	3.79
3348.00	14.90	308.80	3206.78	530.53	-643.82	834.25	834.25	309.49	4.16
3409.00	12.40	310.70	3266.05	539.71	-654.90	848.64	848.64	309.49	4.16
3473.00	10.80	309.10	3328.74	547.98	-664.76	861.50	861.51	309.50	2.55
3536.00	8.70	309.70	3390.83	554.74	-673.01	872.17	872.17	309.50	3.34
3598.00	6.90	309.40	3452.25	560.10	-679.50	880.59	880.59	309.50	2.90
3662.00	6.00	311.70	3515.85	564.77	-684.97	887.77	887.77	309.51	1.46
3725.00	4.40	310.90	3578.59	568.54	-689.25	893.48	893.48	309.52	2.54
3810.00	1.90	305.20	3663.45	571.49	-692.87	898.15	898.15	309.52	2.96

PROJECTION @ TD

3865.00	1.90	305.20	3718.42	572.54	-694.36	899.96	899.96	309.51	.00
3965.00	.00	.00	3818.40	573.50	-695.71	901.62	901.62	309.50	1.90

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Kern } ss.

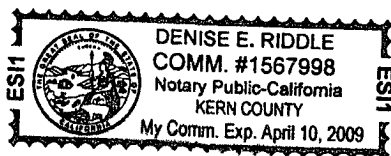
On February 27, 2008 before me, Denise E. Riddle, Notary Public,
(DATE) (NOTARY'S PRINTED NAME)

personally appeared, Chad J. Hathaway,
(SIGNERS)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Denise E. Riddle

NOTARY SIGNATURE

OPTIONAL INFORMATION

The information below is not required by law. However, it could prevent fraudulent attachment of this acknowledgment to an unauthorized document.

CAPACITY CLAIMED BY SIGNER (PRINCIPAL)

- ☐ INDIVIDUAL
☐ CORPORATE OFFICER

TITLE(S)

- ☐ PARTNER(S)
☐ ATTORNEY-IN-FACT
☐ TRUSTEE(S)
☐ GUARDIAN/CONSERVATOR
☐ OTHER: _____

DESCRIPTION OF ATTACHED DOCUMENT

TITLE OR TYPE OF DOCUMENT

NUMBER OF PAGES

DATE OF DOCUMENT



Hathaway Burnham Navigational LLC
DIRECTIONAL AND MWD SERVICES

February 27, 2008

Ms. Geneva Blackwater
P.O. Box 4289
Farmington, NM 87499

RCVD JUN 20 '08
OIL CONS. DIV.

DIST. 3

RE: Final Notarized Survey's Well WM Hanley #1F

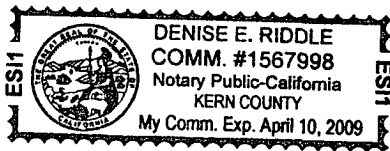
Dear Ms. Blackwater,

Please find the enclosed final surveys for well WM Hanley #1F. I hereby certify to the best of my knowledge these surveys are true and correct.

Sincerely,

A handwritten signature in black ink, appearing to be 'Chad J. Hathaway', written over a horizontal line.

Chad J. Hathaway
Hathaway Burnham Navigational LLC





COP Deviation Report

W M HANLEY #1F

Survey Data					
Date	MD (ftKB)	Incl (°)	Method	Survey Company	
2/11/2008	2,405.00	17.80	MWD	HB NAVIGATION	
2/11/2008	2,468.00	17.10	MWD	HB NAVIGATION	
2/11/2008	2,532.00	16.90	MWD	HB NAVIGATION	
2/11/2008	2,596.00	16.40	MWD	HB NAVIGATION	
2/11/2008	2,657.00	17.20	MWD	HB NAVIGATION	
2/11/2008	2,721.00	18.20	MWD	HB NAVIGATION	
2/11/2008	2,783.00	19.50	MWD	HB NAVIGATION	
2/11/2008	2,843.00	20.20	MWD	HB NAVIGATION	
2/11/2008	2,906.00	18.80	MWD	HB NAVIGATION	
2/12/2008	2,970.00	18.50	MWD	HB NAVIGATION	
2/12/2008	3,034.00	20.00	MWD	HB NAVIGATION	
2/12/2008	3,097.00	20.20	MWD	HB NAVIGATION	
2/12/2008	3,161.00	20.30	MWD	HB NAVIGATION	
2/12/2008	3,224.00	19.80	MWD	HB NAVIGATION	
2/12/2008	3,285.00	17.50	MWD	HB NAVIGATION	
2/12/2008	3,348.00	14.90	MWD	HB NAVIGATION	
2/12/2008	3,409.00	12.40	MWD	HB NAVIGATION	
2/12/2008	3,473.00	10.80	MWD	HB NAVIGATION	
2/12/2008	3,536.00	8.70	MWD	HB NAVIGATION	
2/12/2008	3,598.00	6.90	MWD	HB NAVIGATION	
2/12/2008	3,662.00	6.00	MWD	HB NAVIGATION	
2/12/2008	3,725.00	4.40	MWD	HB NAVIGATION	
2/12/2008	3,810.00	1.90	MWD	HB NAVIGATION	
2/26/2008	6,550.00	0.25	FINAL BHS	PHOENIX	

RCVD JUN 20 '08

OIL CONS. DIV.

DIST. 3

I, the undersigned, certify that I acting in my capacity as William Engers 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 6-19-08

Chondra S. Rogers
Notary Public in and for San Juan County, New Mexico

My Commission expires January 10, 2011

COP Deviation Report**ConocoPhillips****W M HANLEY #1F**

Operator BURLINGTON RESOURCES OIL & GAS COMPANY	Legal WellName W M HANLEY #1F	API / UWI 3004534555	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 018-29N-010W	N/S Dist (ft) 870.00	N/S Ref FSL	E/W Dist (ft) 1,500.00	E/W Ref FWL

Survey Data				
Date	MD (ftKB)	Incl (°)	Method	Survey Company
2/10/2008	0.00	0.00	MWD	HB NAVIGATION
2/1/2008	129.00	0.75	A1SureShot	Mo-Te Drilling Inc.
2/1/2008	249.00	1.00	A1SureShot	Mo-Te Drilling Inc.
2/1/2008	349.00	1.50	A1SureShot	Mo-Te Drilling Inc.
2/10/2008	352.00	1.90	MWD	HB NAVIGATION
2/10/2008	412.00	1.80	MWD	HB NAVIGATION
2/10/2008	473.00	1.70	MWD	HB NAVIGATION
2/11/2008	534.00	1.70	MWD	HB NAVIGATION
2/11/2008	595.00	2.10	MWD	HB NAVIGATION
2/11/2008	656.00	3.20	MWD	HB NAVIGATION
2/11/2008	717.00	4.60	MWD	HB NAVIGATION
2/11/2008	779.00	6.50	MWD	HB NAVIGATION
2/11/2008	841.00	8.40	MWD	HB NAVIGATION
2/11/2008	904.00	10.60	MWD	HB NAVIGATION
2/11/2008	967.00	13.50	MWD	HB NAVIGATION
2/11/2008	1,030.00	15.70	MWD	HB NAVIGATION
2/11/2008	1,094.00	18.20	MWD	HB NAVIGATION
2/11/2008	1,156.00	20.90	MWD	HB NAVIGATION
2/11/2008	1,219.00	21.00	MWD	HB NAVIGATION
2/11/2008	1,311.00	21.11	MWD	HB NAVIGATION
2/11/2008	1,405.00	20.50	MWD	HB NAVIGATION
2/11/2008	1,499.00	20.50	MWD	HB NAVIGATION
2/11/2008	1,562.00	20.20	MWD	HB NAVIGATION
2/11/2008	1,658.00	20.30	MWD	HB NAVIGATION
2/11/2008	1,719.00	20.40	MWD	HB NAVIGATION
2/11/2008	1,783.00	21.20	MWD	HB NAVIGATION
2/11/2008	1,846.00	21.40	MWD	HB NAVIGATION
2/11/2008	1,907.00	21.20	MWD	HB NAVIGATION
2/11/2008	1,970.00	22.50	MWD	HB NAVIGATION
2/11/2008	2,031.00	22.60	MWD	HB NAVIGATION
2/11/2008	2,094.00	22.00	MWD	HB NAVIGATION
2/11/2008	2,156.00	20.30	MWD	HB NAVIGATION
2/11/2008	2,218.00	19.80	MWD	HB NAVIGATION
2/11/2008	2,282.00	19.30	MWD	HB NAVIGATION
2/11/2008	2,342.00	18.40	MWD	HB NAVIGATION

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 _____