

Submit 3 Copies to Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

WELL API NO. 30-015-35726	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name DASHER 16 STATE	
8. Well Number 001	
9. OGRID Number 229137	
10. Pool name or Wildcat HENSHAW; WOLFCAMP 30630	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
COG Operating LLC

3. Address of Operator
550 W. Texas Ave., Suite 1300 Midland, TX 79701

4. Well Location
Unit Letter **P** : **330'** feet from the **South** line and **330'** feet from the **East** line
Section **16** Township **16S** Range **30E** NMPM County **EDDY**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3793' GR

Pit or Below-grade Tank Application ☐ or Closure ☒

Pit type **DRILLING** Depth to Groundwater **100'** Distance from nearest fresh water well **1000'** Distance from nearest surface water **1000'**

Pit Liner Thickness: **12 mil** Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: Change drilling direction ☒		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

This well's original BHL was 330 FNL & 330 FEL Section 16, T16S, R30E.

COG respectfully requests permission to drill to
BHL 330 FSL & 330 FWL.

Revised plat & directional drilling plan are attached.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Phyllis Edwards TITLE Regulatory Analyst DATE 9-3-07

Type or print name **Phyllis Edwards** E-mail address: **pedwards@conchoresources.com** Telephone No. **432-685-4340**
For State Use Only

APPROVED BY: **BRYAN G. ARRAANT** **DISTRICT II GEOLOGIST** TITLE DATE **SEP 07 2007**
Conditions of Approval (if any):

DISTRICT I
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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-35726		Pool Code 30630	Pool Name HENSHAW; WOLFCAMP
Property Code 36623	Property Name DASHER "16" STATE		Well Number 1
OGRID No. 229137	Operator Name C.O.G. OPERATING L.L.C.		Elevation 3793'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	16	16 S	30 E		330	SOUTH	330	EAST	EDDY

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	16	16 S	30 E		330	SOUTH	330	WEST	EDDY
Dedicated Acres 160		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

				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 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. <i>Phyllis A. Edwards</i> 9-4-07 Signature Date Phyllis A. Edwards-Regulatory Printed Name Analyst			
				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 05, 2007 Date Surveyed <i>Gary L. Jones</i> Signature & Seal Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS			
				BOTTOM HOLE LOCATION LAT-N32°54'54.9" LONG-W103°59'04.3" SPC- 696876.65 648378.86 (NAD-83)		SURFACE LOCATION LAT-N32°54'54.87" LONG-W103°58'10.11" SPC- 696892.478 652994.758 (NAD-83)	
				PRODUCING AREA 4615.9'		PROJECT AREA	

Pathfinder Energy Planning Report

Company: COG Operating Company LLC. Field: Dasher 16 State #1 Site: Dasher 16 State #1 Well: Dasher 16 State #1 Wellpath: OH			Date: 09/04/2007 Co-ordinate(NE) Reference: Dasher 16 State #1, Grid North Vertical (TVD) Reference: SITE 4808.0 Section (VS) Reference: Well (0 00N,0 00E,270 00Azi) Plan: Plan#2 9-4-07			Time: 09:35 53 Page: 1				
Field: Dasher 16 State #1										
Map System: US State Plane Coordinate System 1983 Geo Datum: GRS 1980 Sys Datum: Mean Sea Level			Map Zone: New Mexico, Eastern Zone Coordinate System: Site Centre Geomagnetic Model: igrf2005							
Site: Dasher 16 State #1										
Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3793 00 ft			Northing: 696892 48 ft Easting: 652994.76 ft			Latitude: 32 54 54 860 N Longitude: 103 58 10 126 W North Reference: Grid Grid Convergence: 0 20 deg				
Well: Dasher 16 State #1			Slot Name:							
Well Position: +N/-S 0 00 ft +E/-W 0 00 ft Position Uncertainty: 0 00 ft			Northing: 696892 48 ft Easting: 652994 76 ft			Latitude: 32 54 54.860 N Longitude: 103 58 10.126 W				
Wellpath: OH			Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 8 27 deg Mag Dip Angle: 60 86 deg +E/-W Direction deg 0 00 0 00 0.00 270.00							
Current Datum: SITE Magnetic Data: 08/31/2007 Field Strength: 49416 nT Vertical Section: Depth From (TVD) ft 0 00 0 00 0.00 270.00			Height: 4808 00 ft +N/-S ft 0 00 0 00 0.00 270.00							
Plan: Plan#2 9-4-07 Principal: No			Date Composed: 08/31/2007 Version: 1 Tied-to: From Surface							
Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0 00	0 00	0.00	0 00	0 00	0 00	0.00	0.00	0.00	0 00	
7160 00	0 00	0.00	7160 00	0.00	0.00	0.00	0 00	0 00	0.00	
7913 98	90 00	274.00	7640 00	33.48	-478.83	11.94	11.94	0 00	274.00	
8113 98	90.00	270 00	7640.00	40.46	-678.67	2 00	0.00	-2 00	270.00	
12055 31	90.00	270 00	7640.00	40.46	-4620.00	0.00	0 00	0 00	0.00	
Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0 00	0 00	0.00	0 00	0 00	0 00	0.00	0 00	0.00	0.00	
100 00	0 00	0 00	100.00	0.00	0 00	0.00	0 00	0.00	0 00	
200.00	0.00	0 00	200.00	0.00	0.00	0.00	0 00	0.00	0 00	
300 00	0.00	0 00	300.00	0.00	0.00	0.00	0 00	0 00	0 00	
400.00	0 00	0.00	400.00	0.00	0 00	0.00	0.00	0 00	0 00	
500.00	0 00	0.00	500 00	0 00	0.00	0 00	0 00	0 00	0 00	
600 00	0 00	0 00	600 00	0 00	0.00	0 00	0 00	0 00	0 00	
700 00	0 00	0 00	700 00	0 00	0 00	0.00	0 00	0.00	0.00	
800.00	0.00	0 00	800 00	0 00	0 00	0.00	0 00	0.00	0 00	
900.00	0 00	0 00	900.00	0.00	0 00	0.00	0 00	0.00	0 00	
1000 00	0.00	0 00	1000.00	0.00	0 00	0 00	0.00	0 00	0 00	
1100 00	0 00	0 00	1100 00	0.00	0.00	0 00	0 00	0 00	0 00	
1200.00	0.00	0.00	1200 00	0 00	0.00	0.00	0 00	0.00	0.00	
1300.00	0.00	0.00	1300 00	0.00	0 00	0.00	0 00	0.00	0.00	
1400.00	0 00	0.00	1400.00							

Planning Report

Plan: Plan#2 9-4-07

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1600.00	0 00	0 00	1600 00	0 00	0.00	0 00	0 00	0 00	0 00	
1700.00	0.00	0 00	1700.00	0.00	0.00	0 00	0 00	0 00	0 00	
1800 00	0.00	0.00	1800 00	0.00	0.00	0 00	0 00	0 00	0 00	
1900 00	0.00	0 00	1900.00	0.00	0.00	0.00	0.00	0 00	0 00	
2000.00	0 00	0 00	2000 00	0 00	0 00	0 00	0 00	0 00	0 00	
2100.00	0.00	0.00	2100.00	0 00	0.00	0 00	0.00	0.00	0 00	
2200 00	0.00	0 00	2200 00	0 00	0 00	0 00	0 00	0 00	0 00	
2300.00	0 00	0.00	2300.00	0.00	0 00	0 00	0.00	0 00	0 00	
2400.00	0.00	0.00	2400.00	0 00	0 00	0.00	0.00	0 00	0 00	
2500 00	0 00	0 00	2500 00	0 00	0.00	0 00	0.00	0 00	0 00	
2600 00	0.00	0 00	2600 00	0.00	0 00	0 00	0 00	0 00	0 00	
2700.00	0 00	0.00	2700.00	0.00	0 00	0 00	0 00	0 00	0 00	
2800.00	0 00	0.00	2800.00	0.00	0 00	0.00	0.00	0.00	0 00	
2900 00	0.00	0 00	2900 00	0 00	0 00	0 00	0 00	0.00	0 00	
3000.00	0 00	0.00	3000 00	0 00	0.00	0 00	0 00	0.00	0 00	
3100.00	0 00	0.00	3100 00	0.00	0.00	0.00	0 00	0 00	0 00	
3200.00	0 00	0.00	3200.00	0 00	0.00	0.00	0.00	0.00	0 00	
3300 00	0 00	0.00	3300 00	0 00	0.00	0 00	0 00	0.00	0 00	
3400.00	0.00	0.00	3400 00	0 00	0.00	0 00	0 00	0 00	0 00	
3500 00	0 00	0.00	3500 00	0.00	0 00	0 00	0 00	0 00	0 00	
3600 00	0 00	0.00	3600.00	0 00	0 00	0 00	0 00	0 00	0 00	
3700 00	0.00	0.00	3700 00	0 00	0 00	0.00	0.00	0.00	0 00	
3800 00	0 00	0 00	3800 00	0 00	0 00	0.00	0 00	0.00	0 00	
3900.00	0 00	0.00	3900 00	0.00	0 00	0 00	0 00	0 00	0 00	
4000 00	0 00	0 00	4000 00	0.00	0.00	0.00	0 00	0 00	0 00	
4100 00	0 00	0 00	4100.00	0.00	0 00	0 00	0 00	0.00	0 00	
4200 00	0 00	0 00	4200 00	0 00	0 00	0.00	0 00	0.00	0 00	
4300.00	0 00	0.00	4300 00	0 00	0 00	0 00	0 00	0 00	0 00	
4400 00	0 00	0 00	4400 00	0 00	0.00	0 00	0 00	0 00	0 00	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0 00	0 00	0 00	
4600.00	0.00	0.00	4600.00	0 00	0 00	0 00	0.00	0.00	0 00	
4700 00	0 00	0 00	4700 00	0 00	0 00	0.00	0.00	0.00	0 00	
4800 00	0 00	0 00	4800 00	0.00	0.00	0.00	0 00	0.00	0 00	
4900.00	0 00	0 00	4900.00	0.00	0 00	0 00	0 00	0.00	0 00	
5000 00	0 00	0.00	5000 00	0.00	0 00	0 00	0.00	0.00	0 00	
5100 00	0 00	0.00	5100 00	0 00	0 00	0.00	0.00	0.00	0 00	
5200 00	0.00	0.00	5200.00	0 00	0 00	0.00	0.00	0.00	0 00	
5300 00	0 00	0.00	5300 00	0.00	0.00	0 00	0 00	0 00	0 00	
5400.00	0 00	0.00	5400 00	0 00	0.00	0 00	0 00	0 00	0 00	
5500 00	0.00	0.00	5500 00	0.00	0 00	0 00	0.00	0 00	0 00	
5600 00	0.00	0 00	5600.00	0 00	0 00	0 00	0.00	0 00	0 00	
5700 00	0.00	0.00	5700.00	0 00	0 00	0.00	0 00	0.00	0 00	
5800.00	0 00	0 00	5800 00	0 00	0.00	0.00	0 00	0.00	0 00	
5900 00	0 00	0 00	5900 00	0.00	0 00	0.00	0.00	0 00	0 00	
6000 00	0 00	0.00	6000 00	0 00	0.00	0 00	0 00	0 00	0 00	
6100 00	0 00	0 00	6100 00	0.00	0 00	0 00	0 00	0 00	0 00	
6200 00	0 00	0 00	6200 00	0.00	0 00	0 00	0 00	0 00	0 00	
6300 00	0 00	0.00	6300.00	0.00	0 00	0 00	0.00	0 00	0 00	
6400 00	0.00	0.00	6400.00	0 00	0 00	0 00	0.00	0 00	0.00	
6500 00	0 00	0 00	6500.00	0 00	0 00	0.00	0.00	0.00	0 00	
6600 00	0 00	0 00	6600 00	0 00	0 00	0.00	0 00	0.00	0 00	
6700.00	0.00	0 00	6700 00	0.00	0.00	0 00	0.00	0 00	0 00	
6800 00	0 00	0.00	6800 00	0 00	0 00	0 00	0 00	0 00	0 00	
6900 00	0 00	0 00	6900.00	0.00	0 00	0 00	0.00	0 00	0 00	

Pathfinder Energy

Planning Report

Company: COG Operating Company LLC
 Field: Dasher 16 State #1
 Site: Dasher 16 State #1
 Well: Dasher 16 State #1
 Wellpath: OH

Date: 09/04/2007 Time: 09:35 53 Page: 3
 Co-ordinate(N/E) Reference: Dasher 16 State #1, Grid North
 Vertical (TVD) Reference: SITE 4808.0
 Section (VS) Reference: Well (0.00N,0.00E,270.00Azi)
 Plan: Plan#2 9-4-07

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	0.00	0.00	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	0.00	0.00	
7160.00	0.00	0.00	7160.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP @ 7160' MD
7200.00	4.77	274.00	7199.95	0.12	-1.66	1.66	11.94	11.94	0.00	
7300.00	16.71	274.00	7298.02	1.41	-20.22	20.22	11.94	11.94	0.00	
7400.00	28.65	274.00	7390.12	4.10	-58.62	58.62	11.94	11.94	0.00	
7500.00	40.58	274.00	7472.27	8.05	-115.18	115.18	11.94	11.94	0.00	
7600.00	52.52	274.00	7540.92	13.11	-187.48	187.48	11.94	11.94	0.00	
7700.00	64.46	274.00	7593.09	19.05	-272.37	272.37	11.94	11.94	0.00	
7800.00	76.39	274.00	7626.53	25.61	-366.19	366.19	11.94	11.94	0.00	
7900.00	88.33	274.00	7639.80	32.51	-464.88	464.88	11.94	11.94	0.00	
7913.98	90.00	274.00	7640.00	33.48	-478.83	478.83	11.94	11.94	0.00	EOC @ 7914' MD, 7640' TVD
8000.00	90.00	272.28	7640.00	38.19	-564.72	564.72	2.00	0.00	-2.00	
8100.00	90.00	270.28	7640.00	40.43	-664.69	664.69	2.00	0.00	-2.00	
8113.98	90.00	270.00	7640.00	40.46	-678.67	678.67	2.00	0.00	-2.00	EOT @ 8114' MD, 270° AZI
8200.00	90.00	270.00	7640.00	40.46	-764.69	764.69	0.00	0.00	0.00	
8300.00	90.00	270.00	7640.00	40.46	-864.69	864.69	0.00	0.00	0.00	
8400.00	90.00	270.00	7640.00	40.46	-964.69	964.69	0.00	0.00	0.00	
8500.00	90.00	270.00	7640.00	40.46	-1064.69	1064.69	0.00	0.00	0.00	
8600.00	90.00	270.00	7640.00	40.46	-1164.69	1164.69	0.00	0.00	0.00	
8700.00	90.00	270.00	7640.00	40.46	-1264.69	1264.69	0.00	0.00	0.00	
8800.00	90.00	270.00	7640.00	40.46	-1364.69	1364.69	0.00	0.00	0.00	
8900.00	90.00	270.00	7640.00	40.46	-1464.69	1464.69	0.00	0.00	0.00	
9000.00	90.00	270.00	7640.00	40.46	-1564.69	1564.69	0.00	0.00	0.00	
9100.00	90.00	270.00	7640.00	40.46	-1664.69	1664.69	0.00	0.00	0.00	
9200.00	90.00	270.00	7640.00	40.46	-1764.69	1764.69	0.00	0.00	0.00	
9300.00	90.00	270.00	7640.00	40.46	-1864.69	1864.69	0.00	0.00	0.00	
9400.00	90.00	270.00	7640.00	40.46	-1964.69	1964.69	0.00	0.00	0.00	
9500.00	90.00	270.00	7640.00	40.46	-2064.69	2064.69	0.00	0.00	0.00	
9600.00	90.00	270.00	7640.00	40.46	-2164.69	2164.69	0.00	0.00	0.00	
9700.00	90.00	270.00	7640.00	40.46	-2264.69	2264.69	0.00	0.00	0.00	
9800.00	90.00	270.00	7640.00	40.46	-2364.69	2364.69	0.00	0.00	0.00	
9900.00	90.00	270.00	7640.00	40.46	-2464.69	2464.69	0.00	0.00	0.00	
10000.00	90.00	270.00	7640.00	40.46	-2564.69	2564.69	0.00	0.00	0.00	
10100.00	90.00	270.00	7640.00	40.46	-2664.69	2664.69	0.00	0.00	0.00	
10200.00	90.00	270.00	7640.00	40.46	-2764.69	2764.69	0.00	0.00	0.00	
10300.00	90.00	270.00	7640.00	40.46	-2864.69	2864.69	0.00	0.00	0.00	
10400.00	90.00	270.00	7640.00	40.46	-2964.69	2964.69	0.00	0.00	0.00	
10500.00	90.00	270.00	7640.00	40.46	-3064.69	3064.69	0.00	0.00	0.00	
10600.00	90.00	270.00	7640.00	40.46	-3164.69	3164.69	0.00	0.00	0.00	
10700.00	90.00	270.00	7640.00	40.46	-3264.69	3264.69	0.00	0.00	0.00	
10800.00	90.00	270.00	7640.00	40.46	-3364.69	3364.69	0.00	0.00	0.00	
10900.00	90.00	270.00	7640.00	40.46	-3464.69	3464.69	0.00	0.00	0.00	
11000.00	90.00	270.00	7640.00	40.46	-3564.69	3564.69	0.00	0.00	0.00	
11100.00	90.00	270.00	7640.00	40.46	-3664.69	3664.69	0.00	0.00	0.00	
11200.00	90.00	270.00	7640.00	40.46	-3764.69	3764.69	0.00	0.00	0.00	
11300.00	90.00	270.00	7640.00	40.46	-3864.69	3864.69	0.00	0.00	0.00	
11400.00	90.00	270.00	7640.00	40.46	-3964.69	3964.69	0.00	0.00	0.00	
11500.00	90.00	270.00	7640.00	40.46	-4064.69	4064.69	0.00	0.00	0.00	
11600.00	90.00	270.00	7640.00	40.46	-4164.69	4164.69	0.00	0.00	0.00	
11700.00	90.00	270.00	7640.00	40.46	-4264.69	4264.69	0.00	0.00	0.00	
11800.00	90.00	270.00	7640.00	40.46	-4364.69	4364.69	0.00	0.00	0.00	
11900.00	90.00	270.00	7640.00	40.46	-4464.69	4464.69	0.00	0.00	0.00	

Pathfinder Energy

Planning Report

Company: COG Operating Company LLC Field: Dasher 16 State #1 Site: Dasher 16 State #1 Well: Dasher 16 State #1 Wellpath: OH	Date: 09/04/2007 Time: 09:35:53 Page: 4 Co-ordinate(NE) Reference: Site, Dasher 16 State #1, Grid North Vertical (TVD) Reference: SITE 4808.0 Section (VS) Reference: Well (0.00N,0.00E,270.00Azi) Plan: Plan#2 9-4-07
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Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
12000.00	90.00	270.00	7640.00	40.46	-4564.69	4564.69	0.00	0.00	0.00	
12055.31	90.00	270.00	7640.00	40.46	-4620.00	4620.00	0.00	0.00	0.00	TD Well @ 12058' MD

Targets

Name	Description		TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<--- Longitude --->				
	Dip.	Dir.						Deg	Min	Sec	Deg	Min	Sec		
PBHL			7640.00	40.46	-4620.00	696932.94	648374.76	32	54	55.415	N	103	59	4.322	W

Annotation

MD ft	TVD ft	
7160.00	7160.00	KOP @ 7160' MD
7913.98	7640.00	EOC @ 7914' MD, 7640' TVD, Begin Turn @ 3°/100'
8113.98	7640.00	EOT @ 8114' MD, 270° AZI, Hold to TD
12055.31	7640.00	TD Well @ 12058' MD

COG Operating Company LLC.

Field: Dasher 16 State #1

Site: Dasher 16 State #1

Well: Dasher 16 State #1

Wellpath: OH

Plan: Plan#2 9-4-07

PATHFINDER

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
2	7160 00	0 00	0 00	7160 00	0 00	0 00	0 00	0 00	0 00	
3	7913 98	90 00	274 00	7640 00	33 48	-478 83	11 94	274 00	478 83	
4	8113 98	90 00	270 00	7640 00	40 46	-678 67	2 00	270 00	678 67	
5	12055 31	90 00	270 00	7640 00	40 46	-4620 00	0 00	0 00	4620 00	

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Dasher 16 State #1	0 00	0 00	696892 48	652994 76	32°54'54 860N	103°58'10 126W	N/A

LEGEND

— Plan#2 9-4-07

SITE DETAILS

Dasher 16 State #1

Site Centre Northing 696892 48
Easting 652994 76

Ground Level 3793 00
Positional Uncertainty 0 00
Convergence 0 20

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
PBHL	7640 00	40 46	-4620 00	Point

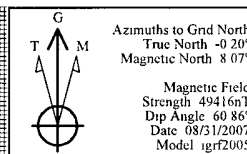
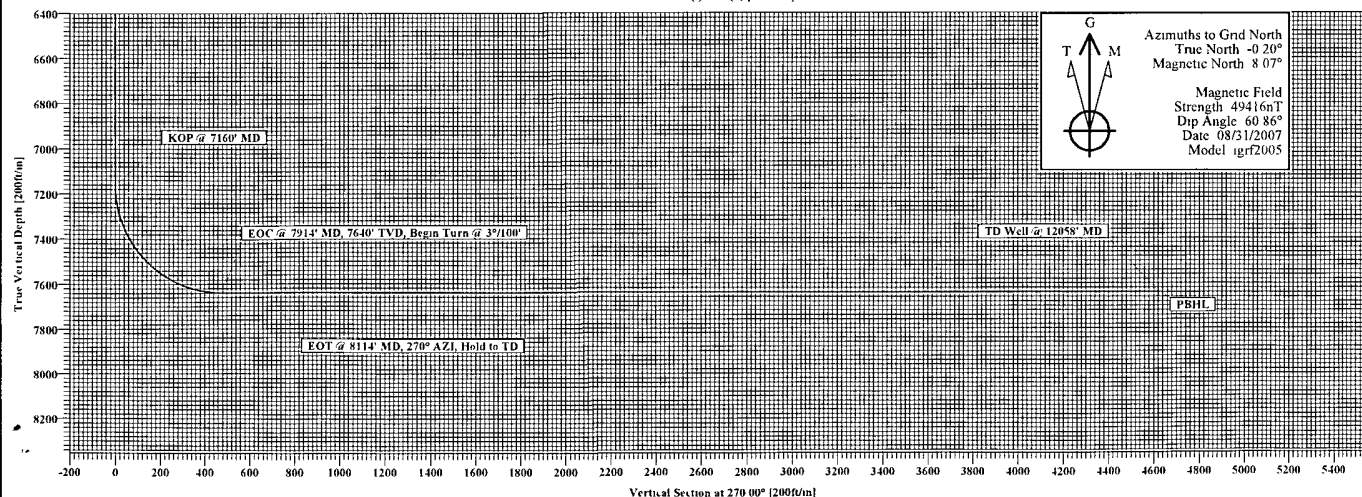
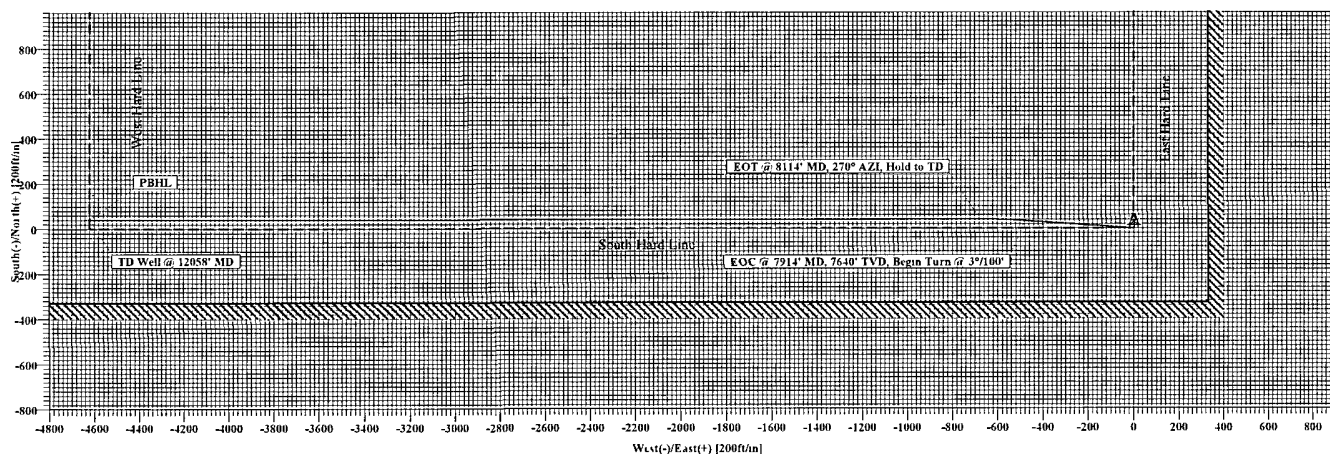
WELLPATH DETAILS

OH

Rig Ref Datum	SITE	4808 00ft
V Section Angle	Origin +N/-S	Origin +E/-W
270 00°	0 00	0 00
		Starting From TVD
		0 00

ANNOTATIONS

No	TVD	MD	Annotation
1	7160 00	7160 00	KOP @ 7160' MD
2	7640 00	7913 98	EOC @ 7914' MD, 7640' TVD Begin Turn @ 3°/100'
3	7640 00	8113 98	EOT @ 8114' MD, 270° AZI Hold to TD
4	7640 00	12055 31	TD Well @ 12058' MD



Plan (Plan#2) 9-4-07 - Dasher 16 State #1 (1:1000)

Created By: Derek Crofton

Date: 09/04/2007