

Results of Directional Survey

API number:	30-025-39107		
OGRID:		Operator:	COG OPERATING LLC
		Property:	MC FEDERAL # 35

surface	ULSTR:	L	21	T 17S	R 32E
		1395	FSL	105	FWL

BH Loc	ULSTR:	M	21	T 17S	R 32E
		981	FSL	344	FWL

Top Perf/OH	ULSTR:	M	21	T 17S	R 32E
	5426	1065	FSL	301	FWL

Bot Perf/OH	ULSTR:	M	21	T 17S	R 32E
	6790	995	FSL	337	FWL

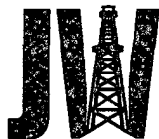
	MD	N/S	E/W	VD
	5405	-327.90	195.10	5378.1
TOP PERFS/OH	5426	-329.53	195.93	5399.01
	5499	-335.20	198.80	5471.70
	6708	-395.90	229.90	6678.80
BOT PERFS/OH	6790	-400.22	232.02	6760.62
	6801	-400.80	232.30	6771.60

NEXT TO LAST	6893	-405.70	234.70	6863.40
LAST READING	6998	-411.30	237.30	6968.30
TD	7050	-414.07	238.59	7020.25

Surface Location	1395	FS	105	FW
Projected BHL	981	FS	344	FW
Location of				
Top Perfs/OH	1065	FS	301	FW
Bottom Perfs/OH	995	FS	337	FW

SUMMARY of Subsurface Locations

Surface Location	L-21-17S-32E	1395	FS	105	FW	Vert. Depth
Top Perfs/OH	M-21-17S-32E	1065	FS	301	FW	5399.01
Bottom Perfs/OH	M-21-17S-32E	995	FS	337	FW	6760.62
Projected TD	M-21-17S-32E	981	FS	344	FW	7020.25



DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 Artesia, New Mexico 88211-0160 Office (575) 748-8704 Fax (575) 748-8719

February 18, 2010

RECEIVED

MAY 10 2010

HOBBSOCD

COG Operating, LLC
550 W. Texas, Suite 1300
Midland, Texas 79701

Re: MC Federal # 35
Sec. 21, T-17-S, R-32-E
Lea County, New Mexico

Attn: John Coffman

The following is a Deviation Survey on the referenced well in Lea County, New Mexico:

254' - 0.5°
494' - 1.25°
643' - 0.75°
776' - 0.5°
1248' - 1.75°
1747' - 2°

SUR: L-21-17s-32e, 1395/S & 105/W
BHL: M-21-17s-32e, 981/S & 344/W
API # 30-025-39107

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 18th day of February, 2010 by Gary W. Chappell.

MY COMMISSION EXPIRES

9/7/2013

NOTARY PUBLIC