

WELL NAME AND NUMBER State S-19 No. 35

15-39774

LOCATION Section 19, T17S, R29E, Lot M, 490 FSL, 825 FWL, Eddy County

OPERATOR COG Operating LLC

DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation test and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
.4° @ 108'		
.6° @ 202'		
.2° @ 307'		
.6° @ 564'		
.5° @ 1095'		
1.0° @ 1539'		
1° @ 1983'		
.7° @ 2395'		
.6° @ 2838'		
.4° @ 3283'		
.3° @ 3727'		
.6° @ 4139'		
.3° @ 4583'		
.5° @ 5518'		

Drilling Contractor- UNITED DRILLING, INC.

By: Luisa Noriega
(Luisa Noriega)

Title: Asst. Office Manager

Subscribed and sworn to before me this 3rd day of February 2012.

My Commission Expires: 10/8/12

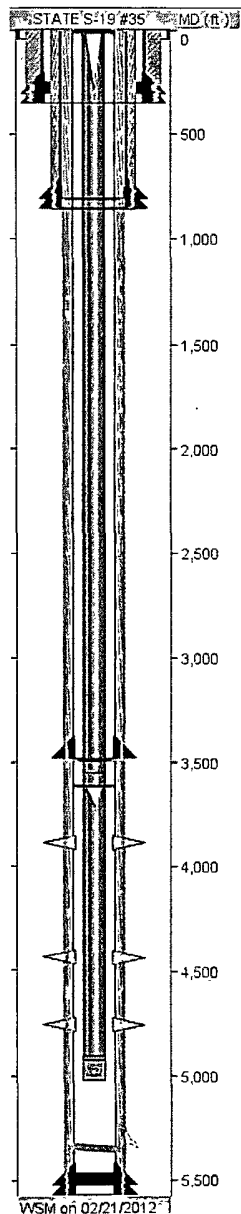
Carline Martin
Notary Public
Chaves New Mexico
County State

ID: 30-015-39774

Well Name: STATE S-19 #35

Event#: 2.00

Report Dates: 02/21/2012

**PIPE SPECIFICATION**

STRING NAME	SECTION NAME	JOINT COUNT	START DEPTH	END DEPTH	LENGTH	OD SIZE	ID SIZE	WT GRDNT	GRD	CONN
CONDUCTOR	CASING	1	0.00	40.00	40.00	20.00	19.12	94.0	H-40	OTR
SURFACE	GUIDE SHOE		349.90	351.00	1 10	13.38	12.71			STC
SURFACE	CASING	1	305.72	349.90	44.18	13.38	12 71	48 0	H-40	STC
SURFACE	INSERT FLOAT		305.72	305.72	0 00		12.71			STC
SURFACE	CASING	7	-3.43	305.72	309.15	13.38	12.71	48.0	H-40	STC
TUBING	BULL PLUG		5021.84	5022.47	0.63	2.88	2.44	6.5	J-55	EUE
TUBING	MUD ANCHOR	1	4927.09	5021.84	94.75	2.88	2.44	6.5	J-55	EUE
TUBING	DESANDER		4907.79	4927.09	19.30	2.88	2.44	6.5	J-55	EUE
TUBING	SEAT NIPLE		4906.69	4907.79	1 10	2.88	1 90			EUE
TUBING	TUBING	1	3615.10	4906.69	1291.59	2.88	2.44	6.5	J-55	EUE
TUBING	TUBING ANCHOR		3612.40	3615.10	2.70	5.50	2.44			EUE
TUBING	TUBING	1	3549.11	3612.40	63.29	2.88	2.44	6.5	J-55	EUE
TUBING	MARKER JOINT		3547.11	3549 11	2.00	2 88	2.44	6 5	J-55	EUE
TUBING	TUBING	1	12.00	3547.11	3535.11	2.88	2.44	6.5	J-55	EUE
TUBING	KB		0.00	12.00	12 00					
TUBING	TBG DRANE		0 00	0.00	0.00					
INTERMEDIATE	GUIDE SHOE		854.50	856.00	1.50	8.63	8.10			STC
INTERMEDIATE	CASING	1	809.29	854.50	45.21	8.63	8.10	24.0	J-55	STC
INTERMEDIATE	FLOAT COLLAR		808.09	809.29	1 20	8.63	8.10			STC
INTERMEDIATE	CASING	18	11.21	808.09	814.58	8.63	8.10	24 0	J-55	STC
PROD. STRING #1	FLOAT SHOE		5564.52	5566.00	1.48					LTC
PROD. STRING #1	CASING	1	5519.42	5564.52	45.10	5.50	4.89	17.0	J-55	LTC
PROD. STRING #1	FLOAT COLLAR		5518 05	5519.42	1.37					LTC
PROD. STRING #1	CASING	45	3493.97	5518 05	2024.08	5 50	4.89	17 0	J-55	LTC
PROD. STRING #1	MARKER JOINT	1	3479.27	3493 97	14.70	5 50	4 89	17.0	J-55	LTC
PROD. STRING #1	CASING	78	13.29	3479.27	3465.98	5 50	4.89	17.0	J-55	LTC
PROD. STRING #1	LANDING COLLAR		-7.41	13.29	20.70	5.50	4.89	17.0	J-55	LTC

CEMENTING

STRING NAME	STAGE #	LEAD TOP (est) (ft)	LEAD TOP (ver) (ft)	TAIL TOP (est) (ft)	TAIL TOP (ver) (ft)
SURFACE	1	0.0	0 0		
INTERMEDIATE	1	0.0	0 0		
PROD. STRING #1	1	0.0	0 0	2512 0	

BHA STRING

DRILL EQUIP CODE	DESCRIPTION	LENGTH	OD SIZE	ID SIZE
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PERFORATION

ZONE	JOB REPORT DATE	ZONE NAME	TOP DEPTH	BOTTOM DEPTH	HOLE SIZE	PEN SIZE	SQUEEZED
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ID: 30-015-39774

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PERFORATION							
ZONE	JOB REPORT DATE	ZONE NAME	TOP DEPTH	BOTTOM DEPTH	HOLE SIZE	PEN SIZE	SQUEEZED
2	02/15/2012	BLINEBRY	4630.00	4880.00	0.41	21.00	N
3	02/15/2012	BLINEBRY	4310.00	4560.00	0.41	18.00	N
4	02/15/2012	PADDOCK	3760.00	4010.00	0.41	18.00	N