

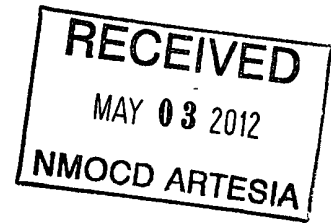
CAVALOZ DRILLING

P.O. BOX 1500 (575) 3910699 FAX (575) 391- 3824 HOBBS, NEW MEXICO 88241

INCLINATION REPORT

DATE: 3/2/12

WELL NAME AND NUMBER HATFIELD ST #5
LOCATION EDDY COUNTY
OPERATOR: COG LLC
DRILLING CONTRACTOR: CAVALOZ DRILLING RIG #2

*30-015-37398*

THE UNDERSIGNED HEREBY CERTIFIES THAT HE IS AN AUTHORIZED REPRESENTATIVE OF THE DRILLING CONTRACTOR WHO DRILLED THE ABOVE DESCRIBED WELL AND THAT HE HAS CONDUCTED DEVIATION TEST AND OBTAINED THE FOLLOWING RESULTS:

DEGREE	DEPTH	DEGREE	DEPTH	DEGREE	DEPTH
<u>2.4</u>	<u>234</u>	<u>0.5</u>	<u>3552</u>	<u> </u>	<u> </u>
<u>1.4</u>	<u>362</u>	<u>1.7</u>	<u>3898</u>	<u> </u>	<u> </u>
<u>2.3</u>	<u>515</u>	<u>0.7</u>	<u>4370</u>	<u> </u>	<u> </u>
<u>2.1</u>	<u>827</u>	<u>2</u>	<u>4809</u>	<u> </u>	<u> </u>
<u>0.6</u>	<u>1009</u>	<u>1.4</u>	<u>5248</u>	<u> </u>	<u> </u>
<u>0.7</u>	<u>1347</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>0.9</u>	<u>1785</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>1.6</u>	<u>2227</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>1.9</u>	<u>2640</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>1.8</u>	<u>3110</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

DRILLING CONTRACTOR:
CAVALOZ DRILLING

BY: Bob Wegner
BOB WEGNER
DRILLING SUPERINTENDENT

SUBSCRIBED AND SWORN TO BEFORE ME ON THE 2nd DAY OF March, 2012

MY COMMISSION EXPIRES:

03/1/15[Signature]

OFFICIAL SEAL
JESSICA BUENO
NOTARY PUBLIC - STATE OF NEW MEXICO
My commission expires: 03/1/15



Daily Wellbore Schematics Report

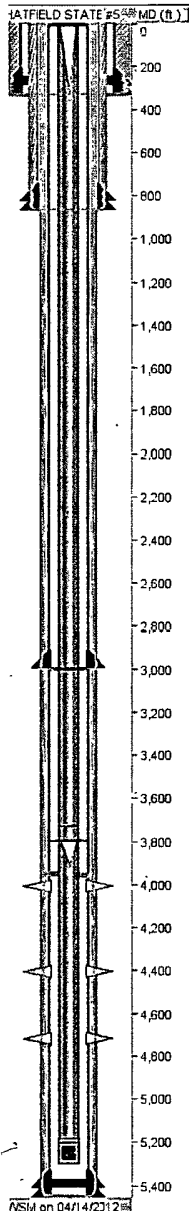
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ID: 30-015-37398

Well Name: HATFIELD STATE #5

Event#: 3.00

Report Dates: 04/14/2012



PIPE SPECIFICATION

STRING NAME	SECTION NAME	JOINT COUNT	START DEPTH	END DEPTH	LENGTH	OD SIZE	ID SIZE	WT GRDNT	GRD	CONN
SURFACE	FLOAT SHOE		328.83	330.00	1.17					
SURFACE	CASING	1	289.13	328.83	39.70	13.38	12.71	48.0	H-40	STC
SURFACE	INTERNAL FLOAT		289.13	289.13	0.00					
SURFACE	CASING	7	-2.72	289.13	291.85	13.38	12.71	48.0	H-40	STC
PRODUCTION	FLOAT SHOE		5450.53	5452.00	1.47					LTC
PRODUCTION	CASING	1	5406.02	5450.53	44.51	5.50	4.89	17.0	J-55	LTC
PRODUCTION	FLOAT COLLAR		5404.70	5406.02	1.32					LTC
PRODUCTION	CASING	54	3001.26	5404.70	2403.44	5.50	4.89	17.0	J-55	LTC
PRODUCTION	MARKER JOINT	1	2990.91	3001.26	10.35	5.50	4.89	17.0	J-55	LTC
PRODUCTION	CASING	67	11.21	2990.91	2979.70	5.50	4.89	17.0	J-55	LTC
PRODUCTION	LANDING COLLAR		-5.39	11.21	16.60	5.50	4.89	17.0	J-55	LTC
TUBING	BULL PLUG		5299.59	5300.39	0.80	2.88	2.44	6.5	BULL	8-RD
TUBING	MUD ANCHOR	3	5203.96	5299.59	95.63	2.88	2.44	6.5	J-55	8-RD
TUBING	DESANDER		5184.66	5203.96	19.30	2.88	2.44	6.5	DESAND	8-RD
TUBING	SEAT NIPPLE		5183.57	5184.66	1.09	2.88	0.25	6.5	SEAT	8-RD
TUBING	TUBING	43	3793.95	5183.57	1389.62	2.88	2.44	6.5	J-55 TBG	8-RD
TUBING	TUBING ANCHOR		3791.65	3793.95	2.30	5.50	2.44	6.5	TBG	8-RD
TUBING	TUBING	2	3726.53	3791.65	65.12	2.88	2.44	6.5	J-55 TBG	8-RD
TUBING	MARKER JOINT		3724.34	3726.53	2.19	2.88	2.44	6.5	J-55 MJ	8-RD
TUBING	TUBING	116	12.00	3724.34	3712.34	2.88	2.44	6.5	J-55 TBG	8-RD
TUBING	KB CORRECTION		0.00	12.00	12.00					
INTERMEDIATE	FLOAT SHOE		866.00	867.00	1.00					STC
INTERMEDIATE	CASING	1	824.72	866.00	41.28	8.63	8.10	24.0	J-55	STC
INTERMEDIATE	FLOAT COLLAR		823.29	824.72	1.43					STC
INTERMEDIATE	CASING	20	-2.43	823.29	825.72	8.63	8.10	24.0	J-55	STC

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	0.0	0.0
SURFACE	2	0.0	0.0	0.0	0.0
PRODUCTION	1	0.0	0.0		
INTERMEDIATE	1	0.0	0.0		

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
2	03/09/2012	MIDDLE BLINBRY	4590.00	4840.00	0.21	12.00	N

ID: 30-015-37398**Well Name:** HATFIELD STATE #5**Event#:** 3.00**Report Dates:** 04/14/2012

PERFORATION							
ZONE	JOB REPORT DATE	ZONE NAME	TOP DEPTH	BOTTOM DEPTH	HOLE SIZE	PEN SIZE	SQUEEZED
3	03/10/2012	UPPER BLINBRY	4280.00	4530.00	0.21	12.00	N
4	03/10/2012	PADDOCK	3880.00	4130.00	0.21	12.00	N