

UNITED STATES
DEPARTMENT OF THE INTERIOR **OCD-ARTESIA**
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

EOG Resources Inc.

3a Address

P.O. Box 2267 Midland, Texas 79702

3b. Phone No (include area code)

432-686-3689

4. Location of Well (Footage, Sec, T., R., M., or Survey Description)

**700 FSL & 2350 FEL, U/L O, Sec 17, T18S, R30E
652' FSL & 2278' FWL, U/L N, Sec 16, T18S, R30E (as-drilled)**

5 Lease Serial No

NM-063472 (SHL)

6 If Indian, Allottee or Tribe Name

7 If Unit or CA/Agreement, Name and/or No.

8 Well Name and No.

Sand Tank 17 5H

Fed Com

9. API Well No

30-015-39671

10 Field and Pool, or Exploratory Area

Sand Tank; Bone Spring

11. County or Parish, State

Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other <u>completion</u> |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

2/28/12 MIRU for frac. TOC of 5-1/2" casing is estimated at 500'. Begin 11 state frac.
3/03/12 Finish 11 stage frac. Perforated from 8410' to 12503', 0.44", 528 holes.
Frac w/ 4402 bbls 7.5% HCl acid, 192120 lbs 20/40 sand, 532300 lbs 20/40 RCS sand,
1894080 lbs 16/34 sand, 44090 bbls total load. Flowback.
3/06/12 Shut in for frac on Sand Tank 17 Fed Com 4H.
3/07/12 Flowback.
3/08/12 RIH to drill out frac plugs and clean out wellbore.
3/13/12 Finish drill and clean out. Prep to RIH w/ production tubing.
3/15/12 RIH w/ 2-7/8" production tubing and packer set at 7566'.
3/19/12 Turned to production.

SLD
Accepted for record
NMOCD

RECEIVED
APR 24 2012
NMOCD ARTESIA

ACCEPTED FOR RECORD
APR 21 2012
J. Amos
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14 I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Stan Wagner

Title **Regulatory Analyst**

Signature

Stan Wagner

Date **03/22/2012**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

14 February 2012

EOG Resources

**Eddy County, NM (Nad27)
Sand Tank 17 Fed Com
Sand Tank 17 Fed Com 5H
Wellbore #1**

Survey: Phoenix MWD Surveys

EOG Resources

14 February, 2012



Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Sand Tank 17 Fed Com 5H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Site:	Sand Tank 17 Fed Com	MD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
Well:	Sand Tank 17 Fed Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Project	Eddy County, NM (Nad27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Sand Tank 17 Fed Com			
Site Position:		Northing:		635,014.40 usft	
From:	Map	Easting:		604,776.50 usft	
Position Uncertainty:		Slot Radius:		13-3/16 "	
				Latitude:	
				32° 44' 43.0283 N	
				Longitude:	
				103° 59' 33.1962 W	
				Grid Convergence:	
				0.18 °	

Well	Sand Tank 17 Fed Com 5H					
Well Position	+N/-S	0 00 usft	Northing:	633,834.40 usft	Latitude:	32° 44' 31 3529 N
	+E/-W	0 00 usft	Easting:	604,740 20 usft	Longitude:	103° 59' 33 6657 W
Position Uncertainty		0 00 usft	Wellhead Elevation:	usft	Ground Level:	3,468 00 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	01/16/12	7.75	60.58	48,822

Design	Wellbore #1				
Audit Notes:					
Version:	1 0	Phase:	ACTUAL	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0 00	0 00	0 00	90.44	

Survey Program		Date	02/14/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
418 00	12,535 00	Phoenix MWD Surveys (Wellbore #1)	MWD	MWD - Standard	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
0.00	0 00	0 00	-3,498 00	0 00	0 00	0 00	0 00	0 00	633,834.40	604,740 20	
418.00	0 20	273 90	-3,080 00	418 00	0 05	-0.73	-0 73	0 05	633,834 45	604,739 47	
First Phoenix MWD Survey											
602 00	0 40	167 00	-2,896.00	602 00	-0 55	-0 90	-0.90	0 27	633,833.85	604,739 30	
786.00	0 70	144.90	-2,712 01	785 99	-2 10	-0 11	-0 10	0 20	633,832 30	604,740 09	
969 00	0 80	144 90	-2,529 03	968 97	-4 06	1 26	1.30	0 05	633,830 34	604,741 46	
1,152.00	1 30	118 10	-2,346 06	1,151 94	-6.08	3 83	3 88	0 38	633,828 32	604,744 03	
1,336 00	0 70	90 60	-2,162 08	1,335 92	-7 08	6 80	6 85	0 41	633,827 32	604,747 00	
1,520 00	0 80	43 50	-1,978 10	1,519 90	-6 16	8 80	8 85	0 33	633,828 24	604,749 00	
1,710.00	0 80	18 50	-1,788 12	1,709 88	-3 94	10 14	10 17	0.18	633,830 46	604,750 34	
1,901 00	1 00	13 10	-1,597 14	1,900 86	-1.05	10 94	10 95	0 11	633,833 35	604,751.14	
2,092 00	1 40	6 20	-1,406 18	2,091.82	2 89	11 57	11.55	0 22	633,837 29	604,751 77	
2,282.00	1 00	305 00	-1,216 22	2,281 78	6.15	10 46	10 41	0 67	633,840 55	604,750.66	
2,474 00	0.40	277 60	-1,024 23	2,473 77	7 20	8.42	8 37	0 35	633,841 60	604,748 62	
2,664 00	0 50	288.30	-834 24	2,663 76	7 55	6 98	6 92	0 07	633,841 95	604,747.18	
2,856 00	0 70	309 20	-642 25	2,855 75	8 55	5 27	5 21	0.15	633,842 95	604,745 47	
3,047 00	0 90	306 30	-451 27	3,046.73	10 18	3.16	3 08	0 11	633,844 58	604,743 36	
3,238 00	0 20	282.20	-260 28	3,237 72	11 14	1.63	1 54	0 38	633,845 54	604,741 83	
3,320 00	0 20	194 20	-178 28	3,319 72	11 03	1 45	1 37	0 34	633,845 43	604,741 65	
3,464 00	0 30	228 00	-34 28	3,463 72	10 53	1 11	1.03	0.12	633,844 93	604,741 31	
3,655.00	0 40	283 00	156 72	3,654.72	10 35	0 09	0.01	0.18	633,844 75	604,740 29	
3,846 00	0 30	251 80	347 71	3,845 71	10.34	-1.04	-1 11	0 11	633,844.74	604,739.16	
4,036 00	0 40	299 20	537 71	4,035 71	10 51	-2 09	-2 17	0 16	633,844 91	604,738 11	
4,227 00	1 60	302 40	728 68	4,226 68	12 26	-4 92	-5 01	0.63	633,846 66	604,735 28	
4,418 00	0 30	171 00	919 66	4,417.66	13 20	-7 09	-7 20	0 95	633,847 60	604,733 11	
4,610 00	0 70	194 70	1,111 65	4,609.65	11 57	-7 31	-7 40	0 23	633,845 97	604,732 89	
4,800 00	0 70	229 40	1,301 64	4,799 64	9 69	-8 49	-8 56	0.22	633,844 09	604,731 71	

Phoenix Technology Services
EOG Resources



Company: EOG Resources
Project: Eddy County, NM (Nad27)
Site: Sand Tank 17 Fed Com
Well: Sand Tank 17 Fed Com 5H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Sand Tank 17 Fed Com 5H
TVD Reference: WELL @ 3498.00usft (Original Well Elev + 30' KB)
MD Reference: WELL @ 3498.00usft (Original Well Elev + 30' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,991.00	0 00	41 80	1,492.63	4,990.63	8 93	-9 37	-9 44	0 37	633,843 33	604,730.83
5,181.00	1 10	297 90	1,682.62	5,180.62	9 79	-10 99	-11 06	0 58	633,844 19	604,729 21
5,372.00	0 20	140.20	1,873.61	5,371.61	10 39	-12.39	-12 47	0 67	633,844 79	604,727 81
5,563.00	0 30	27 80	2,064.61	5,562.61	10 57	-11 95	-12 03	0 22	633,844 97	604,728 25
5,753.00	0 30	75 90	2,254.61	5,752.61	11 13	-11 23	-11 32	0 13	633,845 53	604,728 97
5,944.00	0 30	57 80	2,445.60	5,943.60	11 52	-10 32	-10 41	0 05	633,845 92	604,729 88
6,135.00	0 40	336.70	2,636.60	6,134.60	12 40	-10 16	-10 26	0.24	633,846 80	604,730.04
6,326.00	0 20	57 10	2,827.60	6,325.60	13 19	-10 15	-10 25	0.22	633,847 59	604,730 05
6,517.00	0 50	16 30	3,018.59	6,516.59	14 18	-9.63	-9 74	0 19	633,848 58	604,730.57
6,708.00	1.00	300 80	3,209.58	6,707.58	15 83	-10.83	-10 95	0 52	633,850 23	604,729 37
6,888.00	0 70	154 30	3,389.57	6,887.57	15 64	-11.70	-11 82	0.91	633,850 04	604,728.50
7,079.00	0 80	159 70	3,580.56	7,078.56	13 34	-10 74	-10 84	0 06	633,847 74	604,729 46
7,270.00	0 80	161.90	3,771.54	7,269.54	10.82	-9 86	-9 94	0 02	633,845 22	604,730 34
7,461.00	0 60	177.00	3,962.52	7,460.52	8 56	-9 39	-9.46	0 14	633,842 96	604,730.81
7,580.00	0 70	172 80	4,081.52	7,579.52	7.21	-9 27	-9.32	0.09	633,841 61	604,730.93
7,656.00	2 70	101.30	4,157.48	7,655.48	6 40	-7 46	-7 50	3 38	633,840 80	604,732.74
7,688.00	7 00	92 60	4,189.36	7,687.36	6 17	-4 77	-4 81	13 59	633,840 57	604,735 43
7,720.00	11 60	89 20	4,220.93	7,718.93	6 12	0 40	0 35	14 47	633,840 52	604,740 60
7,752.00	15 70	87.50	4,252.02	7,750.02	6 36	7 95	7 90	12 87	633,840 76	604,748 15
7,784.00	20.70	87 90	4,282.41	7,780.41	6 75	17 93	17.88	15 63	633,841 15	604,758 13
7,815.00	25 20	90 10	4,310.95	7,808.95	6 94	30 01	29 96	14 78	633,841 34	604,770 21
7,847.00	29 40	93 00	4,339.38	7,837.38	6.52	44 67	44 62	13 76	633,840 92	604,784 87
7,879.00	33 30	96.10	4,366.71	7,864.71	5 17	61 26	61 22	13 18	633,839 57	604,801 46
7,911.00	37 40	95 60	4,392.80	7,890.80	3 29	79.67	79 65	12 84	633,837 69	604,819 87
7,943.00	41 00	95 50	4,417.60	7,915.60	1 34	99.80	99 79	11 25	633,835 74	604,840 00
7,975.00	44.40	94.90	4,441.11	7,939.11	-0.63	121 41	121 41	10 70	633,833 77	604,861 61
8,007.00	47.70	94 20	4,463.32	7,961.32	-2 45	144 37	144 39	10 43	633,831 95	604,884 57

Phoenix Technology Services
EOG Resources



Company: EOG Resources
Project: Eddy County, NM (Nad27)
Site: Sand Tank 17 Fed Com
Well: Sand Tank 17 Fed Com 5H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Sand Tank 17 Fed Com 5H
TVD Reference: WELL @ 3498 00usft (Original Well Elev + 30' KB)
MD Reference: WELL @ 3498 00usft (Original Well Elev + 30' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,038 00	50 60	93 80	4,483 59	7,981.59	-4 08	167 76	167 79	9 41	633,830.32	604,907 96
8,070 00	53 80	93 30	4,503 20	8,001.20	-5 65	193 00	193 03	10 08	633,828 75	604,933 20
8,102 00	57 30	92 20	4,521 30	8,019.30	-6.91	219 35	219 39	11 30	633,827 49	604,959 55
8,134 00	60.20	91 80	4,537 90	8,035 90	-7 86	246 69	246 74	9 13	633,826 54	604,986.89
8,165.00	62.70	91 40	4,552 71	8,050 71	-8 62	273.90	273 96	8 14	633,825 78	605,014 10
8,197 00	65 10	91 30	4,566 79	8,064 79	-9 30	302 63	302 69	7 51	633,825 10	605,042 83
8,229 00	67 70	91 50	4,579 60	8,077 60	-10 01	331 94	332 01	8 15	633,824 39	605,072 14
8,260 00	70 80	91 20	4,590 58	8,088 58	-10 70	360 92	360 99	10 04	633,823 70	605,101 12
8,293 00	73 00	90 70	4,600 83	8,098 83	-11 22	392 28	392 36	6 82	633,823 18	605,132 48
8,325 00	75 20	89 70	4,609.60	8,107 60	-11 32	423 05	423 13	7 50	633,823 08	605,163.25
8,357 00	78 50	88 90	4,616 88	8,114 88	-10.94	454 21	454 28	10 60	633,823 46	605,194 41
8,389 00	82 40	88 50	4,622 19	8,120 19	-10.22	485 75	485 81	12 25	633,824 18	605,225 95
8,420 00	83 60	88 90	4,625 97	8,123 97	-9 52	516 51	516 57	4 08	633,824 88	605,256 71
8,452 00	83 60	88 60	4,629 53	8,127 53	-8 83	548 30	548 36	0 93	633,825 57	605,288 50
8,516.00	85 00	90 30	4,635 89	8,133 89	-8 22	611 98	612 03	3 43	633,826.18	605,352 18
8,548 00	85 00	90 30	4,638.68	8,136 68	-8 39	643 86	643 90	0 00	633,826 01	605,384 06
8,643.00	88.10	89 40	4,644.40	8,142 40	-8 14	738.67	738 71	3 40	633,826 26	605,478 87
8,739 00	87 80	89 60	4,647 83	8,145 83	-7 30	834 61	834 64	0 38	633,827 10	605,574 81
8,835 00	88 70	89 90	4,650 76	8,148.76	-6 88	930 56	930 59	0 99	633,827 52	605,670 76
8,930 00	89 00	91 80	4,652 67	8,150 67	-8 29	1,025 53	1,025 56	2 02	633,826 11	605,765 73
9,026.00	88.00	91 70	4,655 18	8,153 18	-11 22	1,121 45	1,121 50	1 05	633,823 18	605,861 65
9,122 00	88 00	91 30	4,658 53	8,156 53	-13 73	1,217 36	1,217 43	0 42	633,820 67	605,957 56
9,217.00	87 70	91 10	4,662 09	8,160 09	-15 72	1,312 27	1,312 35	0 38	633,818 68	606,052 47
9,312.00	88 30	91 00	4,665 41	8,163 41	-17 46	1,407 19	1,407 29	0.64	633,816 94	606,147 39
9,408 00	88 70	90 70	4,667 92	8,165 92	-18 89	1,503 15	1,503 25	0 52	633,815 51	606,243 35
9,504 00	89 10	90.20	4,669 77	8,167.77	-19 64	1,599 13	1,599 23	0.67	633,814 76	606,339 33
9,599 00	89 20	89 80	4,671 18	8,169 18	-19 64	1,694 12	1,694 22	0.43	633,814 76	606,434.32

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Sand Tank 17 Fed Com 5H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3498.00usft (Original Well Elev + 30' KB)
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Design:	Wellbore #1	Database:	GCR DB v5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
9,695.00	89.20	91.70	4,672.52	8,170.52	-20.90	1,790.10	1,790.20	1.98	633,813.50	606,530.30	
9,790.00	88.70	91.10	4,674.26	8,172.26	-23.22	1,885.05	1,885.17	0.82	633,811.18	606,625.25	
9,886.00	88.20	91.40	4,676.85	8,174.85	-25.31	1,980.99	1,981.13	0.61	633,809.09	606,721.19	
9,981.00	87.60	91.10	4,680.33	8,178.33	-27.38	2,075.91	2,076.06	0.71	633,807.02	606,816.11	
10,077.00	87.00	90.60	4,684.86	8,182.86	-28.80	2,171.79	2,171.95	0.81	633,805.60	606,911.99	
10,172.00	86.50	90.70	4,690.24	8,188.24	-29.88	2,266.63	2,266.79	0.54	633,804.52	607,006.83	
10,267.00	88.40	90.80	4,694.47	8,192.47	-31.12	2,361.52	2,361.69	2.00	633,803.28	607,101.72	
10,362.00	87.70	90.20	4,697.70	8,195.70	-31.95	2,456.46	2,456.64	0.97	633,802.45	607,196.66	
10,458.00	87.60	90.20	4,701.64	8,199.64	-32.28	2,552.38	2,552.55	0.10	633,802.12	607,292.58	
10,553.00	86.90	90.40	4,706.20	8,204.20	-32.78	2,647.27	2,647.44	0.77	633,801.62	607,387.47	
10,649.00	88.80	90.20	4,709.80	8,207.80	-33.28	2,743.20	2,743.37	1.99	633,801.12	607,483.40	
10,744.00	88.40	90.30	4,712.12	8,210.12	-33.70	2,838.17	2,838.34	0.43	633,800.70	607,578.37	
10,840.00	87.70	89.80	4,715.39	8,213.39	-33.78	2,934.11	2,934.28	0.90	633,800.62	607,674.31	
10,935.00	87.40	90.50	4,719.45	8,217.45	-34.03	3,029.02	3,029.20	0.80	633,800.37	607,769.22	
11,031.00	90.50	91.50	4,721.21	8,219.21	-35.71	3,124.98	3,125.16	3.39	633,798.69	607,865.18	
11,126.00	90.40	91.60	4,720.46	8,218.46	-38.28	3,219.94	3,220.14	0.15	633,796.12	607,960.14	
11,222.00	89.50	90.60	4,720.54	8,218.54	-40.12	3,315.92	3,316.13	1.40	633,794.28	608,056.12	
11,317.00	89.10	90.70	4,721.70	8,219.70	-41.20	3,410.91	3,411.12	0.43	633,793.20	608,151.11	
11,412.00	88.90	90.40	4,723.36	8,221.36	-42.11	3,505.89	3,506.11	0.38	633,792.29	608,246.09	
11,508.00	88.70	90.00	4,725.37	8,223.37	-42.44	3,601.87	3,602.09	0.47	633,791.96	608,342.07	
11,603.00	87.90	89.60	4,728.19	8,226.19	-42.11	3,696.82	3,697.04	0.94	633,792.29	608,437.02	
11,699.00	88.50	89.50	4,731.21	8,229.21	-41.36	3,792.77	3,792.98	0.63	633,793.04	608,532.97	
11,795.00	87.80	89.00	4,734.30	8,232.30	-40.10	3,888.71	3,888.91	0.90	633,794.30	608,628.91	
11,890.00	88.00	91.30	4,737.79	8,235.79	-40.35	3,983.64	3,983.84	2.43	633,794.05	608,723.84	
11,986.00	88.40	91.60	4,740.80	8,238.80	-42.78	4,079.57	4,079.77	0.52	633,791.62	608,819.77	
12,081.00	87.70	92.00	4,744.03	8,242.03	-45.76	4,174.46	4,174.69	0.85	633,788.64	608,914.66	
12,177.00	88.40	91.60	4,747.30	8,245.30	-48.77	4,270.36	4,270.61	0.84	633,785.63	609,010.56	

Phoenix Technology Services
EOG Resources



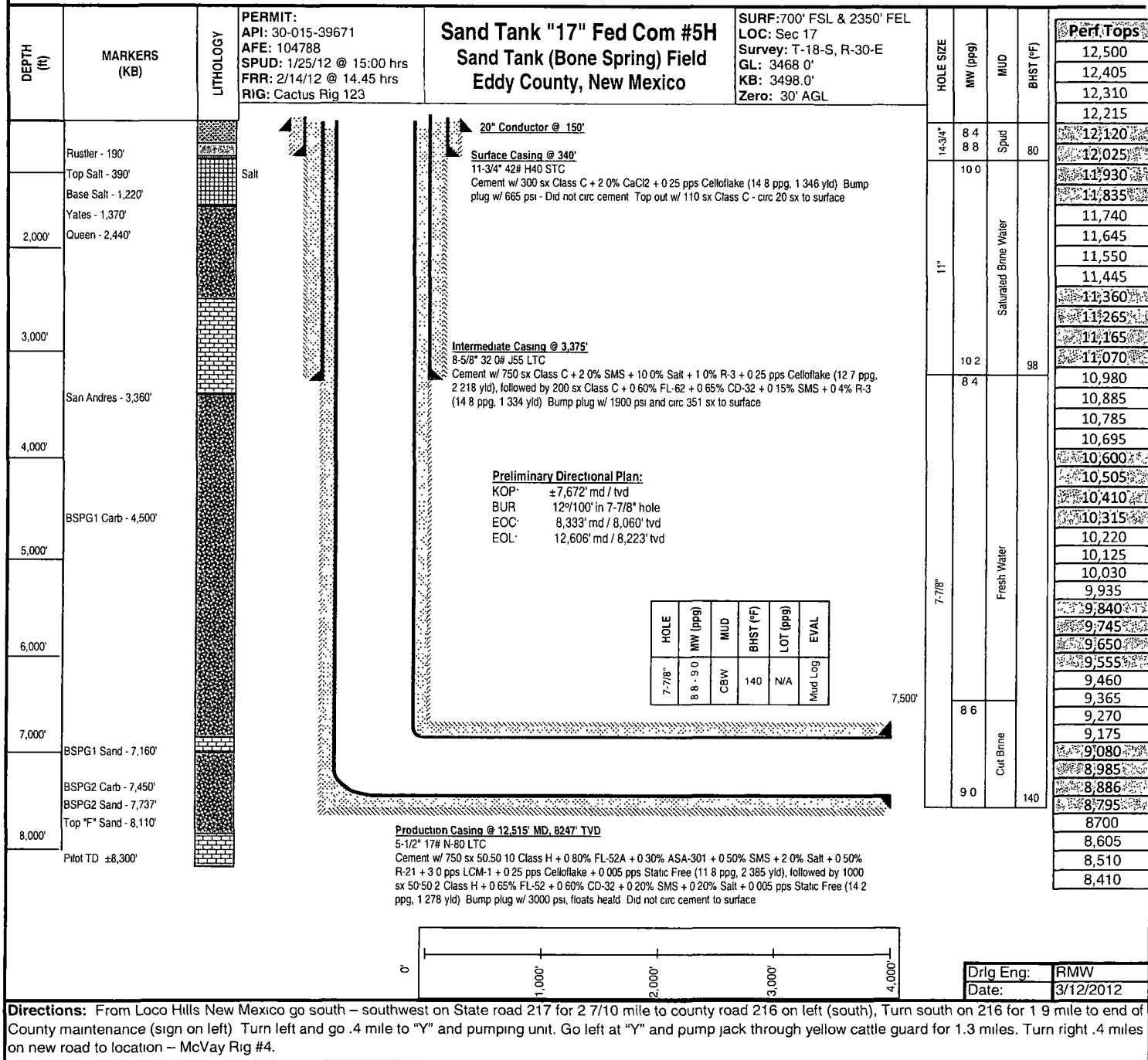
Company:	EOG Resources	Local Co-ordinate Reference:	Well Sand Tank 17 Fed Com 5H
Project:	Eddy County, NM (Nad27)	TVD Reference:	WELL @ 3498 00usft (Original Well Elev + 30' KB)
Site:	Sand Tank 17 Fed Com	MD Reference:	WELL @ 3498 00usft (Original Well Elev + 30' KB)
Well:	Sand Tank 17 Fed Com 5H...	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
12,272 00	89.40	89 10		4,749 13	8,247 13	-49 35	4,365.33	4,365.58	2.83	633,785 05	609,105.53
12,368 00	88 90	89 80		4,750 55	8,248.55	-48 43	4,461 32	4,461 56	0 90	633,785 97	609,201 52
12,463 00	88 40	89 40		4,752 79	8,250 79	-47 77	4,556.29	4,556.52	0 67	633,786 63	609,296 49
Last Phoenix MWD Survey											
12,535 00	88 40	89 40		4,754 80	8,252 80	-47 02	4,628 25	4,628 48	0 00	633,787 38	609,368 45
Projection to TD											

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
418 00	418 00	0 05	-0 73	First Phoenix MWD Survey
12,463 00	8,250 79	-47 77	4,556 29	Last Phoenix MWD Survey
12,535 00	8,252 80	-47 02	4,628 25	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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COMPLETION WELLSKETCH



Stage Number	Cluster Top	Cluster Bottom	Plug Depth	Perf Length
1	12,500	12,503	12,510	288
1	12,405	12,408	12,510	
1	12,310	12,313	12,510	
1	12,215	12,218	12,510	
2	12,120	12,123	12,175	288
2	12,025	12,028	12,175	
2	11,930	11,933	12,175	
2	11,835	11,838	12,175	
3	11,740	11,743	11,795	298
3	11,645	11,648	11,795	
3	11,550	11,553	11,795	
3	11,445	11,448	11,795	
4	11,360	11,363	11,415	293
4	11,265	11,268	11,415	
4	11,165	11,168	11,415	
4	11,070	11,073	11,415	
5	10,980	10,983	11,035	288
5	10,885	10,888	11,035	
5	10,785	10,788	11,035	
5	10,695	10,698	11,035	
6	10,600	10,600	10,655	285
6	10,505	10,508	10,655	
6	10,410	10,413	10,655	
6	10,315	10,318	10,655	
7	10,220	10,223	10,275	288
7	10,125	10,128	10,275	
7	10,030	10,033	10,275	
7	9,935	9,938	10,275	
8	9,840	9,843	9,895	288
8	9,745	9,748	9,895	
8	9,650	9,653	9,895	
8	9,555	9,558	9,895	
9	9,460	9,463	9,515	288
9	9,365	9,368	9,515	
9	9,270	9,273	9,515	
9	9,175	9,178	9,515	
10	9,080	9,083	9,135	288
10	8,985	8,988	9,135	
10	8,886	8,889	9,135	
10	8,795	8,798	9,135	
11	8700	8703	8,755	293
11	8,605	8,608	8,755	
11	8,510	8,513	8,755	
11	8,410	8,413	8,755	

Stage Number	Acid type descr	Acid Volume	Acid Flush Volume	BBL Load	Frac fld type descr	Fracture Volume	Fracture Flush Volume	Total BBLs	Total Load	20/40 Sand	20/40 RCS	16/35 Sand	Total Numbers All Prop
1	7 1/2 % HCL	96	453	549	X-LINK	4,690	301	4,991	5,540	144,560	48,560		193,120
2	7 1/2 % HCL	132	633	765	X-LINK	3,098	298	3,396	4,161	47,560	47,020	147,940	242,520
3	7 1/2 % HCL	96	281	377	X-LINK	3,345	290	3,635	4,012		49,420	192,200	241,620
4	7 1/2 % HCL	96	289	385	X-LINK	3,151	277	3,428	3,813		47,120	192,240	239,360
5	7 1/2 % HCL	96	289	385	X-LINK	3,151	277	3,428	3,813		48,600	195,260	243,860
6	7 1/2 % HCL	96	195	291	X-LINK	3,224	259	3,483	3,774		47,420	192,700	240,120
7	7 1/2 % HCL	96	246	342	X-LINK	3,173	260	3,433	3,775		49,120	194,180	243,300
8	7 1/2 % HCL	96	243	339	X-LINK	3,118	235	3,353	3,692		48,740	194,280	243,020
9	7 1/2 % HCL	96	228	324	X-LINK	3,451	236	3,687	4,011		50,180	192,740	242,920
10	7 1/2 % HCL	96	237	333	X-LINK	3,195	203	3,398	3,731		48,340	195,040	243,380
11	7 1/2 % HCL	96	216	312	X-LINK	3,258	198	3,456	3,768		47,780	197,500	245,280
		Total Acid	Total Flush	Total Acid BBLs		Total Frac Vol	Total Frac Flush	Total Frac BBLs	Total Load	20/40 Sand	20/40 RCS	16/35 Sand	Total Prop
	7 1/2 % HCL	1,092	3,310	4,402	X-LINK	36,854	2,834	39,688	44,090	192,120	532,300	1,894,080	2,618,500