NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 18 2017
Artesia
RECEIVED

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM113939

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. NMNM137127

2. Name of Operator YATES PETROLEUM CORPORATION Contact: KAY MADDOX E-Mail: Kay_Maddox@EOGRESOURCES.com

8. Lease Name and Well No. GUTSY BUN FEDERAL COM 1H

3. Address 105 SOUTH FOURTH STREET ARTESIA, NM 88210

3a. Phone No. (include area code) Ph: 432-686-3658

9. API Well No. 30-015-44032-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface NWNW 200FNL 300FWL 32.078490 N Lat, 104.305637 W Lon Sec 4 T26S R26E Mer NMP
At top prod interval reported below NWNW 522FNL 348FWL 32.077600 N Lat, 104.305491 W Lon Sec 9 T26S R26E Mer NMP
At total depth SWSW 335FSL 356FWL 32.050694 N Lat, 104.305335 W Lon

10. Field and Pool, or Exploratory WC015G03S262608C-BONE SPRING

11. Sec., T., R., M., or Block and Survey or Area Sec 4 T26S R26E Mer NMP

12. County or Parish EDDY

13. State NM

14. Date Spudded 05/11/2017

15. Date T.D. Reached 06/03/2017

16. Date Completed ☐ D & A ☒ Ready to Prod. 07/30/2017

17. Elevations (DF, KB, RT, GL)* 3427 GL

18. Total Depth: MD 17155 TVD 7218 7193

19. Plug Back T.D.: MD 17041 TVD 7218

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
NONE

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J-55	54.5	0	400		C 357	112	0	
12.250	9.625 J-55	40.0	0	1810		C 755	184	0	
8.750	5.500 HCP-110	17.0	0	17145		C 3175	906	0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BONE SPRINGS	7366	17041	7366 TO 17041	3.130	2732	OPEN PRODUCING - Bone Spring
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7366 TO 17041	FRAC W/25,182,350 LBS PROPPANT; 478,976 BBLS LOAD FLUID

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/30/2017	08/11/2017	24	→	97.0	372.0	4945.0	48.0		FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
24/64		408.0	→	97	372	4945	3848	POW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

ACCEPTED FOR RECORD
DAVID R. GLASS
AUG 21 2017
DAVID R. GLASS
PETROLEUM ENGINEER

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #384694 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED**

RECLAMATION DUE:
JAN 30 2018

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
RUSTLER	0	310		TOP SALT	310
SALADO	310	1792		BASE OF SALT	1792
BRUSHY CANYON	3707	5311		BRUSHY CANYON	3707
BONE SPRING 1ST	6232	7042		BONE SPRING 1ST	6232
BONE SPRING 2ND	7042	17155		BONE SPRING 2ND	7042
BONE SPRING	7366	17041	OIL\GAS\WATER		

32. Additional remarks (include plugging procedure):
PLEASE REFERENCE ATTACHMENTS

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #384694 Verified by the BLM Well Information System.
For YATES PETROLEUM CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 08/21/2017 (17DMH0152SE)

Name *(please print)* KAY MADDOX Title REGULATORY ANALYST

Signature (Electronic Submission) Date 08/15/2017

Signed copy attached

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 13 2017
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Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
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WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM113939

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b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: EOG RESOURCES INC
Contact: KAY MADDOX
E-Mail: KAY_MADDOX@EOGRESOURCES.COM

8. Lease Name and Well No.: GUTSY BUN FEDERAL COM 1H

3. Address: PO BOX 2267, MIDLAND, TX 79702

3a. Phone No. (include area code): Ph: 432-686-3658

9. API Well No.: 30-015-44032

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: NWNW 200FNL 300FWL 32.078490 N Lat, 104.305637 W Lon Sec 4 T26S R26E Mer
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At total depth: SWSW 335FSL 356FWL 32.050694 N Lat, 104.305335 W Lon

10. Field and Pool, or Exploratory: WC015G03S262608C;BONE SPR

11. Sec., T., R., M., or Block and Survey or Area: Sec 4 T26S R26E Mer

12. County or Parish: EDDY

13. State: NM

14. Date Spudded: 05/11/2017

15. Date T.D. Reached: 06/03/2017

16. Date Completed: ☐ D & A ☒ Ready to Prod. 07/30/2017

17. Elevations (DF, KB, RT, GL)*: 3427 GL

18. Total Depth: MD 17155 TVD 7193

19. Plug Back T.D.: MD 17041 TVD 7194

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each): NONE

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	400		357		0	
12.250	9.625 J55	40.0	0	1810		755		0	
8.750	5.500 HCP-110	17.0	0	17145		3175		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BONE SPRINGS	7366	17041	7366 TO 17041	3.130	2732	OPEN PRODUCING
B)							
C)							
D)							

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Depth Interval	Amount and Type of Material
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Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
24		408.0	→				3848	POW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #384694 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
T/SALT	310				
B/SALT	1792				
BRUSHY CANYON	3707				
1ST BONE SPRING SAND	6232				
2ND BONE SPRIND SAND	7042				

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2017 AUG 17 A 11:09
BUREAU OF LAND MGMT.
ROSWELL OFFICE

32. Additional remarks (include plugging procedure):
PLEASE REFERENCE ATTACHMENTS

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #384694 Verified by the BLM Well Information System.
For EOG RESOURCES INC, sent to the Carlsbad

Name *(please print)* KAY MADDOX Title REGULATORY ANALYST

Signature (Electronic Submission) Kay Maddox Date 08/15/2017

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources Department

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 13 2017
RECEIVED

Form C-102
Revised August 12, 2011

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-44032	98006	WC-015 G-03 S262608C; BONE SPRING

Property Code	Property Name	Well Number
317147	GUTSY BUN FEDERAL COM	1H

OGRID No.	Operator Name	Elevation
7377	EOG RESOURCES, INC.	3427'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
D	4	26 S	26 E		200	NORTH	300	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	SOUTH/South line	Feet from the	East/West line	County
M	9	26	26 E		335	SOUTH	356	WEST	EDDY

Dedicated Acres	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

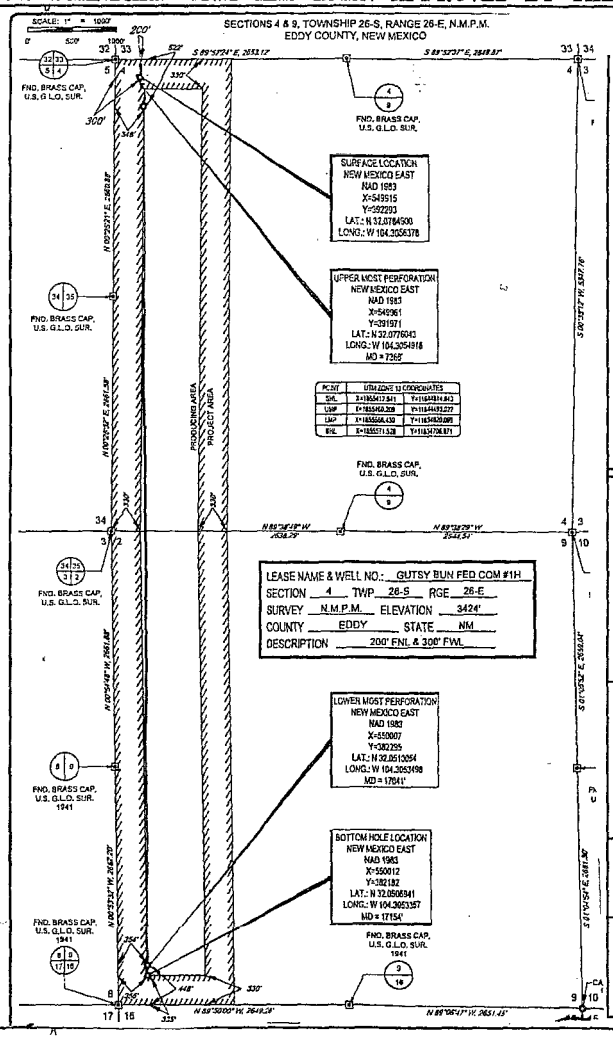
SURFACE LOCATION
NEW MEXICO EAST
NAD 1983
X=549915
Y=392293
LAT.: N 32.0784900
LONG.: W 104.3056378

UPPER MOST PERFORATION
NEW MEXICO EAST
NAD 1983
X=549961
Y=391971
LAT.: N 32.0776043
LONG.: W 104.3054918
MD = 7366'

POINT	UTM ZONE 13 COORDINATES	
SHL	X=1855412.941	Y=11644814.843
UMP	X=1855460.209	Y=11644493.072
LMP	X=1855566.430	Y=11634820.059
BHL	X=1855571.528	Y=11634706.871

LOWER MOST PERFORATION
NEW MEXICO EAST
NAD 1983
X=550007
Y=382295
LAT.: N 32.0510054
LONG.: W 104.3053498
MD = 17041'

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=550012
Y=382182
LAT.: N 32.0506941
LONG.: W 104.3053357
MD = 17154'



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 or has a right to drill this well at this 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.

Kay Maddox 8/15/17
Signature Date

KAY MADDOX
Printed Name

Kay_Maddox@eogresources.com
Email Address

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 supervison, and that the same is true and correct to the best of my belief.

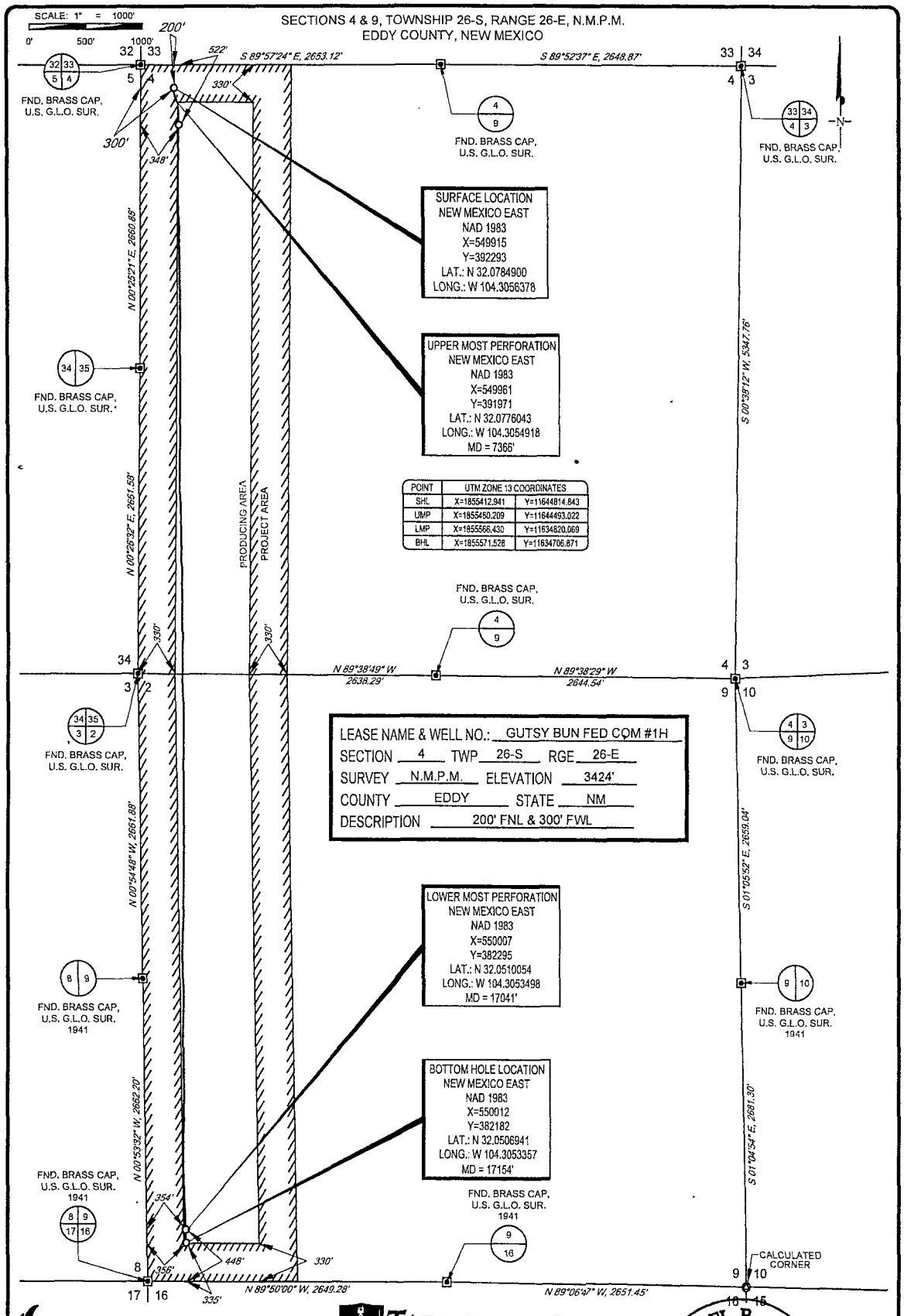
JUNE 29, 2016
Date Surveyed

Signature & Seal of Professional Surveyor

NEW MEXICO
7977
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate No. Gary L. Jones 7977
BASIN SURVEYS

0' 500' 1000' 1500' 2000'
SCALE: 1" = 2000'
WO Num.: 32362



eog resources, inc.

GUTSY BUN FED COM #1H AS-COMPLETED	REVISION:
DATE: 08/02/17	
FILE: AD_GUTSY_BUN_FED_COM_1H	
DRAWN BY: A.M.D.	
SHEET: 1 OF 1	

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1983.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Michael Blake Brown, P.S. No. 18329
AUGUST 2, 2017

Y:\SURVEY\EOG_MIDLAND\GUTSY_BUN_FED_COM_#1H\FINAL_PRODUCTS\AD_GUTSY_BUN_FED_COM_1H.DWG 8/4/2017 7:04:59 AM tstewart

eog resources

EOG Resources - Midland

Eddy County, NM (NAD 83 NME)
Gutsy Bun Federal Com
#1H
OH

Survey: Intrepid MWD #1

EOG Midland PVA

04 June, 2017

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #1H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Site:	Gutsy Bun Federal Com	**MD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Project Eddy County, NM (NAD 83 NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Gutsy Bun Federal Com

Site Position:		**Northing:**	392,294.20 usft	**Latitude:**	32° 4' 42.576 N
From:	Map	**Easting:**	549,914.70 usft	**Longitude:**	104° 18' 20.305 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.01 °

Well #1H

Well Position	**+N/-S**	0.0 usft	**Northing:**	392,294.20 usft	**Latitude:**	32° 4' 42.576 N
	+E/-W	0.0 usft	**Easting:**	549,914.70 usft	**Longitude:**	104° 18' 20.305 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,427.0 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	5/10/2017	7.29	59.81	47,782.71993462

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	179.60

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #1H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Site:	Gutsy Bun Federal Com	**MD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Survey Program **Date** 6/4/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
132.0	397.0	Wildfire MWD (OH)	MWD	MWD - Standard
514.0	17,155.0	Intrepid MWD #1 (OH)	MWD	MWD - Standard

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
397.0	1.40	193.31	396.9	-4.5	-1.7	0.00	0.00	0.00	0.0	0.0
514.0	1.60	207.00	513.9	-7.3	-2.8	0.35	0.17	11.70	0.0	0.0
700.0	1.30	209.60	699.8	-11.5	-5.0	0.17	-0.16	1.51	0.0	0.0
884.0	0.60	295.70	883.8	-12.8	-6.9	0.76	-0.38	46.68	0.0	0.0
1,070.0	0.80	284.50	1,069.8	-12.1	-9.0	0.13	0.11	-6.02	0.0	0.0
1,257.0	1.80	88.80	1,256.8	-11.7	-7.4	1.38	0.53	87.86	0.0	0.0
1,443.0	1.70	112.50	1,442.7	-12.7	-1.9	0.39	-0.05	12.74	0.0	0.0
1,629.0	1.40	111.80	1,628.6	-14.6	2.8	0.16	-0.16	-0.38	0.0	0.0
1,767.0	1.10	107.90	1,766.6	-15.6	5.6	0.23	-0.22	-2.83	0.0	0.0
1,908.0	1.00	105.90	1,907.6	-16.4	8.1	0.08	-0.07	-1.42	0.0	0.0
2,094.0	0.60	91.60	2,093.5	-16.9	10.6	0.24	-0.22	-7.69	0.0	0.0
2,279.0	0.50	107.70	2,278.5	-17.1	12.3	0.10	-0.05	8.70	0.0	0.0
2,467.0	0.10	201.30	2,466.5	-17.5	13.1	0.27	-0.21	49.79	0.0	0.0
2,654.0	0.40	205.10	2,653.5	-18.3	12.7	0.16	0.16	2.03	0.0	0.0
2,840.0	1.90	347.60	2,839.5	-15.9	11.8	1.20	0.81	76.61	0.0	0.0
3,028.0	2.00	354.40	3,027.4	-9.6	10.8	0.13	0.05	3.62	0.0	0.0
3,215.0	1.70	344.00	3,214.3	-3.6	9.7	0.24	-0.16	-5.56	0.0	0.0
3,403.0	0.20	64.90	3,402.3	-0.8	9.2	0.89	-0.80	43.03	0.0	0.0
3,590.0	0.10	60.80	3,589.3	-0.6	9.7	0.05	-0.05	-2.19	0.0	0.0
3,778.0	0.40	83.30	3,777.3	-0.4	10.5	0.16	0.16	11.97	0.0	0.0
3,966.0	0.40	75.30	3,965.3	-0.2	11.8	0.03	0.00	-4.26	0.0	0.0

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #1H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Site:	Gutsy Bun Federal Com	**MD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,154.0	0.10	21.80	4,153.3	0.1	12.5	0.19	-0.16	-28.46	0.0	0.0
4,341.0	0.10	153.90	4,340.3	0.1	12.6	0.10	0.00	70.64	0.0	0.0
4,529.0	0.40	193.00	4,528.3	-0.7	12.5	0.17	0.16	20.80	0.0	0.0
4,716.0	0.50	197.60	4,715.3	-2.1	12.1	0.06	0.05	2.46	0.0	0.0
4,903.0	0.80	208.50	4,902.2	-4.0	11.2	0.17	0.16	5.83	0.0	0.0
5,090.0	1.10	217.50	5,089.2	-6.6	9.5	0.18	0.16	4.81	0.0	0.0
5,277.0	1.30	227.70	5,276.2	-9.4	6.9	0.16	0.11	5.45	0.0	0.0
5,464.0	1.00	219.50	5,463.1	-12.1	4.3	0.18	-0.16	-4.39	0.0	0.0
5,648.0	1.10	202.40	5,647.1	-15.0	2.6	0.18	0.05	-9.29	0.0	0.0
5,836.0	0.80	218.40	5,835.1	-17.7	1.1	0.21	-0.16	8.51	0.0	0.0
6,023.0	1.00	169.70	6,022.1	-20.3	0.5	0.41	0.11	-26.04	0.0	0.0
6,211.0	0.40	16.90	6,210.1	-21.3	1.0	0.73	-0.32	-81.28	0.0	0.0
6,398.0	0.30	281.10	6,397.1	-20.6	0.7	0.28	-0.05	-51.23	0.0	0.0
6,586.0	0.70	266.60	6,585.0	-20.5	-0.9	0.22	0.21	-7.71	0.0	0.0
6,736.0	0.80	251.30	6,735.0	-20.9	-2.8	0.15	0.07	-10.20	0.0	0.0
6,775.0	0.90	236.00	6,774.0	-21.2	-3.3	0.63	0.26	-39.23	0.0	0.0
6,820.0	4.60	170.80	6,819.0	-23.2	-3.3	9.56	8.22	-144.89	-0.9	0.4
6,868.0	10.50	167.70	6,866.5	-29.4	-2.1	12.32	12.29	-6.46	-1.3	1.7
6,913.0	16.40	166.00	6,910.3	-39.5	0.3	13.14	13.11	-3.78	-1.6	3.9
6,957.0	20.70	164.20	6,952.0	-53.1	4.0	9.86	9.77	-4.09	-1.4	7.2
7,006.0	23.70	160.80	6,997.4	-70.7	9.6	6.66	6.12	-6.94	0.3	12.6
7,056.0	28.80	160.60	7,042.2	-91.6	16.9	10.20	10.20	-0.40	4.5	20.0
7,101.0	34.10	164.50	7,080.6	-114.0	23.9	12.61	11.78	8.67	10.6	26.3
7,130.6	37.25	167.77	7,104.6	-130.7	28.0	12.43	10.64	11.05	15.4	29.3
HL Crossing 7130.6' MD; 7104.6' TVD; -130.7'; 28.0'; 37.25										
7,144.0	38.70	169.10	7,115.2	-138.8	29.6	12.43	10.84	9.91	17.7	30.3
7,194.0	47.60	170.60	7,151.6	-172.4	35.6	17.92	17.80	3.00	24.1	34.0

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #1H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Site:	Gutsy Bun Federal Com	**MD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,201.7	49.16	171.32	7,156.7	-178.1	36.5	21.50	20.32	9.38	25.1	34.3
FTP(GB FC #1H)										
7,239.0	56.80	174.40	7,179.2	-207.6	40.2	21.50	20.47	8.25	28.3	35.1
7,273.0	64.20	176.20	7,195.9	-237.1	42.6	22.25	21.76	5.29	28.8	35.1
7,304.0	71.20	177.70	7,207.7	-265.7	44.1	23.02	22.58	4.84	27.3	34.4
7,362.0	83.50	179.80	7,220.3	-322.2	45.3	21.50	21.21	3.62	19.7	31.9
7,455.0	89.60	182.60	7,225.9	-414.9	43.3	7.21	6.56	3.01	8.3	23.4
7,548.0	91.70	182.60	7,224.9	-507.8	39.1	2.26	2.26	0.00	6.3	12.9
7,642.0	91.90	181.70	7,221.9	-601.7	35.6	0.98	0.21	-0.96	4.1	5.7
7,735.0	92.60	181.00	7,218.3	-694.6	33.4	1.06	0.75	-0.75	1.3	2.7
7,829.0	91.10	178.70	7,215.2	-788.6	33.7	2.92	-1.60	-2.45	-1.0	2.5
7,922.0	91.30	179.00	7,213.3	-881.5	35.5	0.39	0.22	0.32	-2.2	4.0
8,014.0	90.50	179.10	7,211.8	-973.5	37.0	0.88	-0.87	0.11	-2.8	5.1
8,107.0	90.40	179.00	7,211.1	-1,066.5	38.6	0.15	-0.11	-0.11	-2.8	6.3
8,201.0	88.70	178.20	7,211.9	-1,160.5	40.9	2.00	-1.81	-0.85	-1.3	8.2
8,294.0	88.80	179.10	7,213.9	-1,253.4	43.1	0.97	0.11	0.97	1.5	10.0
8,387.0	89.20	179.50	7,215.5	-1,346.4	44.2	0.61	0.43	0.43	3.9	10.7
8,480.0	89.30	179.20	7,216.7	-1,439.4	45.3	0.34	0.11	-0.32	5.9	11.4
8,573.0	89.40	179.30	7,217.8	-1,532.4	46.5	0.15	0.11	0.11	7.7	12.2
8,666.0	90.50	179.60	7,217.9	-1,625.4	47.4	1.23	1.18	0.32	8.6	12.7
8,760.0	91.20	179.80	7,216.5	-1,719.3	47.9	0.77	0.74	0.21	8.0	12.8
8,853.0	92.70	180.80	7,213.3	-1,812.3	47.4	1.94	1.61	1.08	5.6	12.0
8,947.0	92.00	179.00	7,209.4	-1,906.2	47.5	2.05	-0.74	-1.91	2.5	11.7
9,040.0	91.10	179.10	7,206.9	-1,999.1	49.1	0.97	-0.97	0.11	0.8	12.9
9,134.0	89.50	180.60	7,206.4	-2,093.1	49.3	2.33	-1.70	1.60	1.1	12.7
9,228.0	89.60	180.90	7,207.0	-2,187.1	48.1	0.45	0.32	0.32	2.4	11.1
9,321.0	89.20	180.20	7,207.8	-2,280.1	47.2	0.99	-0.65	-0.75	4.0	9.8

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #1H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Site:	Gutsy Bun Federal Com	**MD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,413.0	88.70	179.90	7,209.5	-2,372.1	47.1	0.63	-0.54	-0.33	6.4	9.4
9,506.0	88.60	179.00	7,211.7	-2,465.1	48.0	0.97	-0.11	-0.97	9.4	9.9
9,540.5	89.38	179.11	7,212.3	-2,499.6	48.6	2.28	2.26	0.32	10.3	10.3
TGT#1(GB FC #1H)										
9,599.0	90.70	179.30	7,212.3	-2,558.1	49.4	2.28	2.26	0.32	10.7	10.8
9,693.0	91.70	179.30	7,210.3	-2,652.0	50.6	1.06	1.06	0.00	9.3	11.6
9,786.0	91.00	180.80	7,208.1	-2,745.0	50.5	1.78	-0.75	1.61	7.8	11.1
9,879.0	91.40	180.60	7,206.2	-2,838.0	49.3	0.48	0.43	-0.22	6.5	9.6
9,972.0	89.20	180.50	7,205.7	-2,931.0	48.4	2.37	-2.37	-0.11	6.6	8.3
10,066.0	90.00	181.00	7,206.3	-3,025.0	47.2	1.00	0.85	0.53	7.9	6.7
10,160.0	90.50	181.70	7,205.9	-3,118.9	45.0	0.92	0.53	0.74	8.2	4.0
10,253.0	89.50	179.80	7,205.9	-3,211.9	43.8	2.31	-1.08	-2.04	8.8	2.4
10,347.0	88.80	179.80	7,207.3	-3,305.9	44.1	0.74	-0.74	0.00	10.8	2.4
10,441.0	88.00	180.50	7,209.9	-3,399.9	43.9	1.13	-0.85	0.74	14.1	1.7
10,535.0	87.10	179.40	7,214.0	-3,493.8	43.9	1.51	-0.96	-1.17	18.8	1.4
10,628.0	88.70	177.60	7,217.4	-3,586.7	46.4	2.59	1.72	-1.94	22.8	3.4
10,721.0	90.50	178.70	7,218.0	-3,679.6	49.4	2.27	1.94	1.18	24.1	6.0
10,814.0	90.40	178.60	7,217.3	-3,772.6	51.6	0.15	-0.11	-0.11	24.0	7.8
10,907.0	90.70	178.40	7,216.4	-3,865.5	54.0	0.39	0.32	-0.22	23.8	9.9
10,999.0	91.60	178.60	7,214.5	-3,957.5	56.4	1.00	0.98	0.22	22.5	11.9
11,091.0	89.90	179.10	7,213.3	-4,049.5	58.3	1.93	-1.85	0.54	22.0	13.3
11,184.0	90.40	179.40	7,213.1	-4,142.5	59.5	0.63	0.54	0.32	22.4	14.2
11,277.0	90.50	179.40	7,212.4	-4,235.5	60.4	0.11	0.11	0.00	22.3	14.7
11,370.0	90.00	179.30	7,212.0	-4,328.4	61.5	0.55	-0.54	-0.11	22.5	15.4
11,463.0	89.50	179.00	7,212.4	-4,421.4	62.9	0.63	-0.54	-0.32	23.5	16.4
11,556.0	89.10	178.90	7,213.5	-4,514.4	64.6	0.44	-0.43	-0.11	25.3	17.7
11,649.0	89.50	179.80	7,214.6	-4,607.4	65.6	1.06	0.43	0.97	27.1	18.3

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #1H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Site:	Gutsy Bun Federal Com	**MD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
11,742.0	89.50	179.80	7,215.4	-4,700.4	66.0	0.00	0.00	0.00	28.5	18.3
11,834.0	89.10	179.50	7,216.6	-4,792.4	66.5	0.54	-0.43	-0.33	30.3	18.4
11,926.0	89.70	180.80	7,217.5	-4,884.4	66.3	1.56	0.65	1.41	31.9	17.8
12,020.0	89.40	180.40	7,218.3	-4,978.4	65.3	0.53	-0.32	-0.43	33.3	16.4
12,113.0	90.40	179.90	7,218.4	-5,071.4	65.1	1.20	1.08	-0.54	34.1	15.8
12,206.0	91.60	179.40	7,216.8	-5,164.3	65.6	1.40	1.29	-0.54	33.1	16.0
12,300.0	90.40	178.10	7,215.2	-5,258.3	67.7	1.88	-1.28	-1.38	32.1	17.6
12,393.0	90.50	177.50	7,214.4	-5,351.2	71.2	0.65	0.11	-0.65	32.0	20.8
12,486.0	91.80	179.00	7,212.6	-5,444.2	74.1	2.13	1.40	1.61	30.8	23.2
12,579.0	91.40	180.60	7,210.0	-5,537.1	74.4	1.77	-0.43	1.72	28.8	23.2
12,673.0	91.60	180.20	7,207.5	-5,631.1	73.8	0.48	0.21	-0.43	27.0	22.1
12,766.0	91.80	179.60	7,204.8	-5,724.1	73.9	0.68	0.22	-0.65	24.9	21.9
12,860.0	90.90	181.00	7,202.5	-5,818.0	73.4	1.77	-0.96	1.49	23.3	21.0
12,954.0	90.50	180.90	7,201.4	-5,912.0	71.9	0.44	-0.43	-0.11	22.8	19.0
13,042.2	90.69	180.33	7,200.5	-6,000.2	70.9	0.68	0.22	-0.65	22.5	17.7
TGT#2(GB FC #1H)										
13,047.0	90.70	180.30	7,200.4	-6,005.0	70.9	0.68	0.22	-0.65	22.5	17.6
13,140.0	90.40	179.50	7,199.5	-6,098.0	71.1	0.92	-0.32	-0.86	22.5	17.4
13,234.0	90.40	178.70	7,198.9	-6,192.0	72.5	0.85	0.00	-0.85	22.8	18.5
13,327.0	91.00	179.50	7,197.7	-6,285.0	74.0	1.08	0.65	0.86	22.6	19.5
13,421.0	90.00	179.80	7,196.9	-6,378.9	74.6	1.11	-1.06	0.32	22.8	19.7
13,514.0	89.10	179.40	7,197.6	-6,471.9	75.2	1.06	-0.97	-0.43	24.4	20.0
13,608.0	88.90	179.00	7,199.3	-6,565.9	76.5	0.48	-0.21	-0.43	27.0	20.9
13,701.0	89.70	180.10	7,200.4	-6,658.9	77.3	1.46	0.86	1.18	29.1	21.2
13,795.0	90.70	180.20	7,200.1	-6,752.9	77.0	1.07	1.06	0.11	29.8	20.6
13,888.0	91.40	180.80	7,198.4	-6,845.9	76.2	0.99	0.75	0.65	29.0	19.3
13,982.0	91.40	180.20	7,196.1	-6,939.8	75.4	0.64	0.00	-0.64	27.7	18.1

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #1H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Site:	Gutsy Bun Federal Com	**MD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,076.0	91.60	178.90	7,193.6	-7,033.8	76.1	1.40	0.21	-1.38	26.2	18.4
14,168.0	91.90	180.80	7,190.8	-7,125.8	76.4	2.09	0.33	2.07	24.3	18.3
14,262.0	90.70	182.00	7,188.7	-7,219.7	74.1	1.81	-1.28	1.28	23.1	15.6
14,355.0	91.10	182.40	7,187.2	-7,312.6	70.5	0.61	0.43	0.43	22.6	11.6
14,449.0	89.90	182.10	7,186.4	-7,406.5	66.8	1.32	-1.28	-0.32	22.7	7.5
14,543.0	89.60	180.10	7,186.8	-7,500.5	65.0	2.15	-0.32	-2.13	24.1	5.3
14,636.0	89.30	179.10	7,187.7	-7,593.5	65.6	1.12	-0.32	-1.08	26.0	5.6
14,729.0	88.20	178.40	7,189.7	-7,686.5	67.7	1.40	-1.18	-0.75	28.9	7.2
14,823.0	89.50	178.70	7,191.6	-7,780.4	70.1	1.42	1.38	0.32	31.8	9.2
14,916.0	88.60	177.90	7,193.2	-7,873.4	72.8	1.29	-0.97	-0.86	34.3	11.5
15,010.0	89.00	180.70	7,195.1	-7,967.3	74.0	3.01	0.43	2.98	37.2	12.3
15,104.0	89.60	180.80	7,196.3	-8,061.3	72.7	0.65	0.64	0.11	39.3	10.7
15,198.0	91.50	180.80	7,195.4	-8,155.3	71.4	2.02	2.02	0.00	39.4	9.0
15,291.0	91.90	180.70	7,192.6	-8,248.2	70.2	0.44	0.43	-0.11	37.5	7.3
15,385.0	89.50	179.40	7,191.5	-8,342.2	70.1	2.90	-2.55	-1.38	37.4	6.8
15,479.0	90.70	179.00	7,191.3	-8,436.2	71.4	1.35	1.28	-0.43	38.2	7.8
15,572.0	91.00	178.70	7,189.9	-8,529.2	73.3	0.46	0.32	-0.32	37.7	9.2
15,666.0	90.50	177.50	7,188.7	-8,623.1	76.4	1.38	-0.53	-1.28	37.5	11.9
15,760.0	91.70	178.60	7,186.9	-8,717.1	79.6	1.73	1.28	1.17	36.6	14.7
15,853.0	90.60	181.20	7,185.0	-8,810.0	79.8	3.04	-1.18	2.80	35.7	14.5
15,948.0	90.90	181.00	7,183.8	-8,905.0	78.0	0.38	0.32	-0.21	35.4	12.3
16,042.0	88.70	181.70	7,184.1	-8,999.0	75.7	2.46	-2.34	0.74	36.7	9.7
16,135.0	88.70	181.30	7,186.2	-9,091.9	73.3	0.43	0.00	-0.43	39.8	6.8
16,228.0	88.70	180.60	7,188.3	-9,184.9	71.8	0.75	0.00	-0.75	42.8	4.9
16,321.0	89.00	180.10	7,190.2	-9,277.9	71.2	0.63	0.32	-0.54	45.6	3.9
16,415.0	89.10	179.40	7,191.8	-9,371.8	71.6	0.75	0.11	-0.74	48.1	3.9
16,507.0	89.70	179.20	7,192.7	-9,463.8	72.7	0.69	0.65	-0.22	50.0	4.6

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #1H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Site:	Gutsy Bun Federal Com	**MD Reference:**	KB = 25 @ 3452.0usft (H&P 610)
Well:	#1H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
16,601.0	89.80	178.80	7,193.1	-9,557.8	74.4	0.44	0.11	-0.43	51.4	5.9
16,694.0	90.00	178.30	7,193.3	-9,650.8	76.7	0.58	0.22	-0.54	52.5	7.8
16,786.0	89.80	177.30	7,193.5	-9,742.7	80.3	1.11	-0.22	-1.09	53.6	11.0
16,880.0	89.80	176.60	7,193.8	-9,836.6	85.3	0.74	0.00	-0.74	54.9	15.5
16,975.0	89.90	178.20	7,194.0	-9,931.5	89.6	1.69	0.11	1.68	56.1	19.5
17,067.0	90.20	178.00	7,194.0	-10,023.4	92.6	0.39	0.33	-0.22	57.0	22.1
17,104.0	90.20	177.60	7,193.8	-10,060.4	94.0	1.08	0.00	-1.08	57.2	23.4
Last MWD Survey										
17,155.0	90.20	177.60	7,193.6	-10,111.4	96.2	0.00	0.00	0.00	57.6	25.3

Projection to Bit - Interp @ 7136.0 (#1H OH Plan #2) - PBHL(GB FC #1H)

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
7,130.6	7,104.6	-130.7	28.0	HL Crossing 7130.6' MD; 7104.6' TVD; -130.7'; 28.0'; 37.25
17,104.0	7,193.8	-10,060.4	94.0	Last MWD Survey
17,155.0	7,193.6	-10,111.4	96.2	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____

eog resources

Eddy County, NM (NAD 83 NME)

Gutsy Bun Federal Com #1H

H&P 610

Plan #2

Azimuths to Grid North
True North: -0.03°
Magnetic North: 7.28°

Magnetic Field
Strength: 47782.7snT
Dip Angle: 59.81°
Date: 5/10/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 7.28°
To convert a Magnetic Direction to a True Direction, Add 7.29° East
To convert a True Direction to a Grid Direction, Subtract 0.01°

PROJECT DETAILS: Eddy County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #1H

Ground Level: 3427.0
KB = 25 @ 3452.0usft (H&P 610)

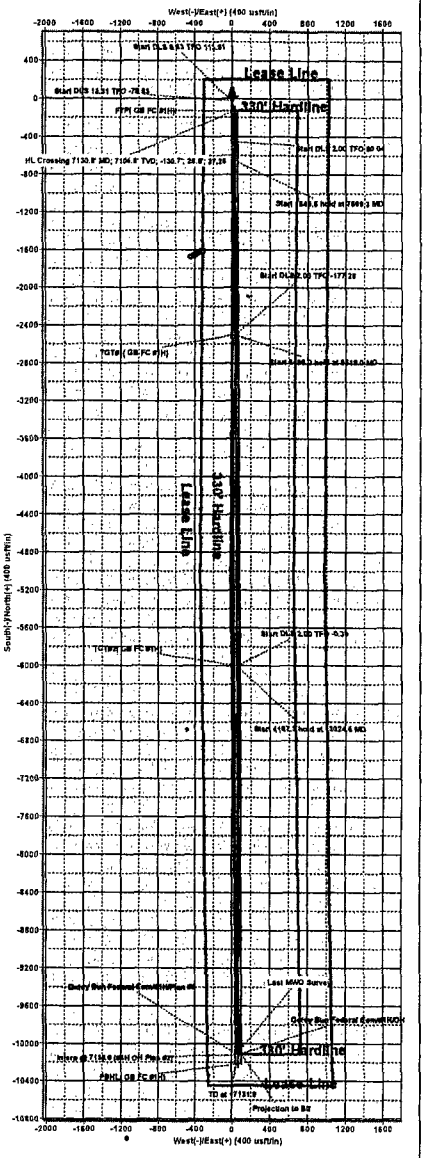
Northing	Easting	Latitude	Longitude
392294.20	549914.70	32° 4' 42.576 N	104° 18' 20.305 W

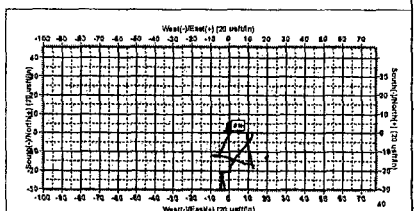
SECTION DETAILS

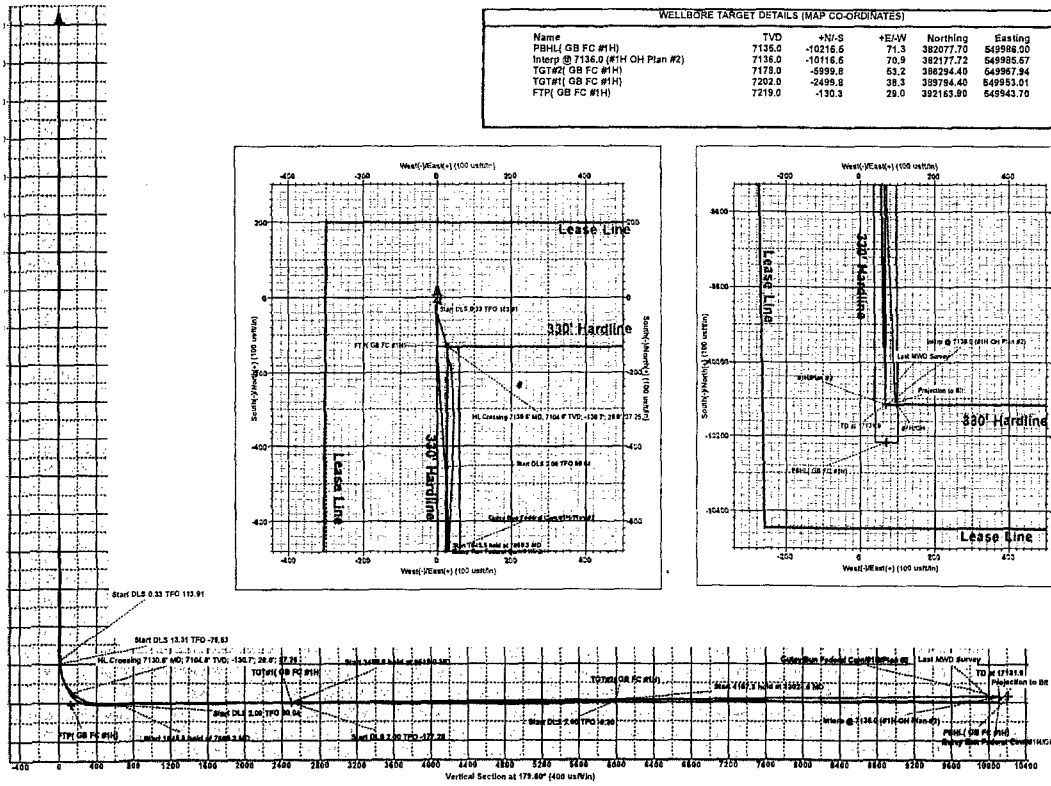
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	6755.0	0.84	243.39	6754.0	-21.0	-3.0	0.00	0.00	21.0	
2	6791.0	0.80	251.30	6790.0	-21.2	-3.5	0.33	113.91	21.2	
3	7469.4	90.48	175.76	7219.0	-454.6	22.7	13.31	-75.53	454.8	
4	7669.3	90.48	179.76	7217.3	-654.4	30.6	2.00	90.04	654.6	
5	9514.8	90.48	179.76	7202.0	-2499.8	38.3	0.00	0.00	2500.0	TGT#1(GB FC #1H)
6	9519.0	90.39	179.76	7202.0	-2504.0	38.3	2.00	-177.28	2504.2	
7	13015.0	90.39	179.76	7178.0	-5999.8	53.2	0.00	0.00	6000.0	TGT#2(GB FC #1H)
8	13024.5	90.58	179.75	7177.9	-6009.4	53.3	2.00	-0.30	6009.6	
9	17131.9	90.58	179.75	7136.0	-10116.5	70.9	0.00	0.00	10116.7	Interp @ 7136.0 (#1H OH Plan #2)

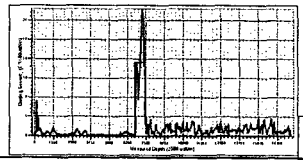
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL(GB FC #1H)	7135.0	-10216.6	71.3	382077.70	549986.00
Interp @ 7136.0 (#1H OH Plan #2)	7136.0	-10116.6	70.9	382177.72	549985.67
TGT#2(GB FC #1H)	7178.0	-5999.8	53.2	386294.40	549967.94
TGT#1(GB FC #1H)	7202.0	-2499.8	38.3	389794.40	549953.01
FTP(GB FC #1H)	7219.0	-130.3	29.0	392163.90	549943.70









District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original to Appropriate District Office

GAS CAPTURE PLAN

Date: 08/15/2017

☒ Original

Operator & OGRID No.: EOG Resources Inc 7377

☐ Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
GUTSY BUN FEDERAL COM 1H	30-015-44032	SEC 4 T26S R26E	200 FNL & 300 FWL	200	70 MCF total	New Well

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID and will be connected to EOG Resources Inc low/high pressure gathering system located in Eddy County, New Mexico. It will require N/A' of pipeline to connect the facility to low/high pressure gathering system. EOG Resources Inc provides (periodically) to LUCID a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, EOG Resources Inc and LUCID have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID Processing Plant located in EDDY County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LUCID system at that time. Based on current information, it is EOG Resources Inc belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Bureau of Land Management

Carlsbad Field Office

620 E Greene St

Carlsbad, New Mexico 88220

WATER PRODUCTION & DISPOSAL INFORMATION

Well: GUTSY BUN FEDERAL COM #1H
NWNW Sec 4 T26S, R26E
30-015-44032

1. Name of formations producing water on lease: **BONE SPRINGS**
2. Amount of water produced from all formations in barrels per day **2000-4000 BWPD**
3. How water is stored on lease **Tanks 4-400 bbl tanks**
4. How water is moved to disposal facility **Pipeline/Trucked**
5. Disposal Facility:
   a. Facility Operators name **EOG RESOURCES, INC**
   b. Name of facility or well name & number

      Cigarillo SWD #1

      30-015-21643

      G-36-23S-27E
   c. Type of facility or wells **WDW**
   d. Permit No **SWD -1121-0**

EOG Resources, Inc.

Gutsy Bun Federal Com #001H

API 30-015-44032

6/29/2017

D-0-26S-26E

LEGEND

Valve Open	Turbine/ Coriolis Meter
Valve Closed	Oil
S Valve Sealed	Gas
Orifice Meter	Water

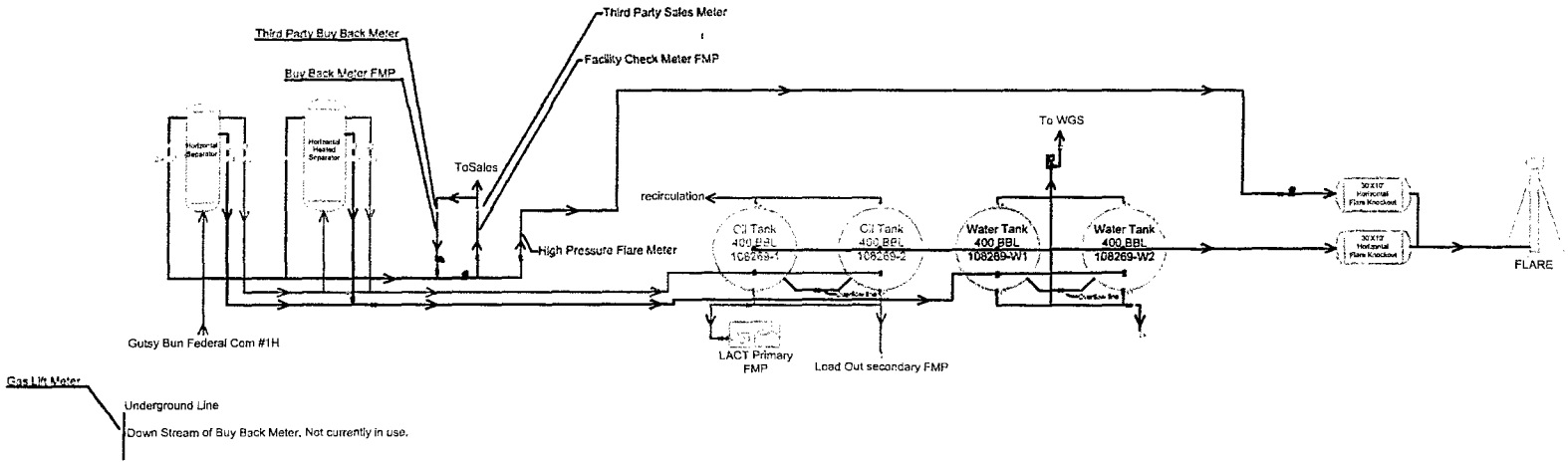
FACILITY DIAGRAM

Shown: Major equipment, vessels, process piping, and valves
Not shown: Auxiliary process systems such as fuel/ pilot gas system, gas lift system, roll lines, recirculating lines, vent lines, and small drain lines

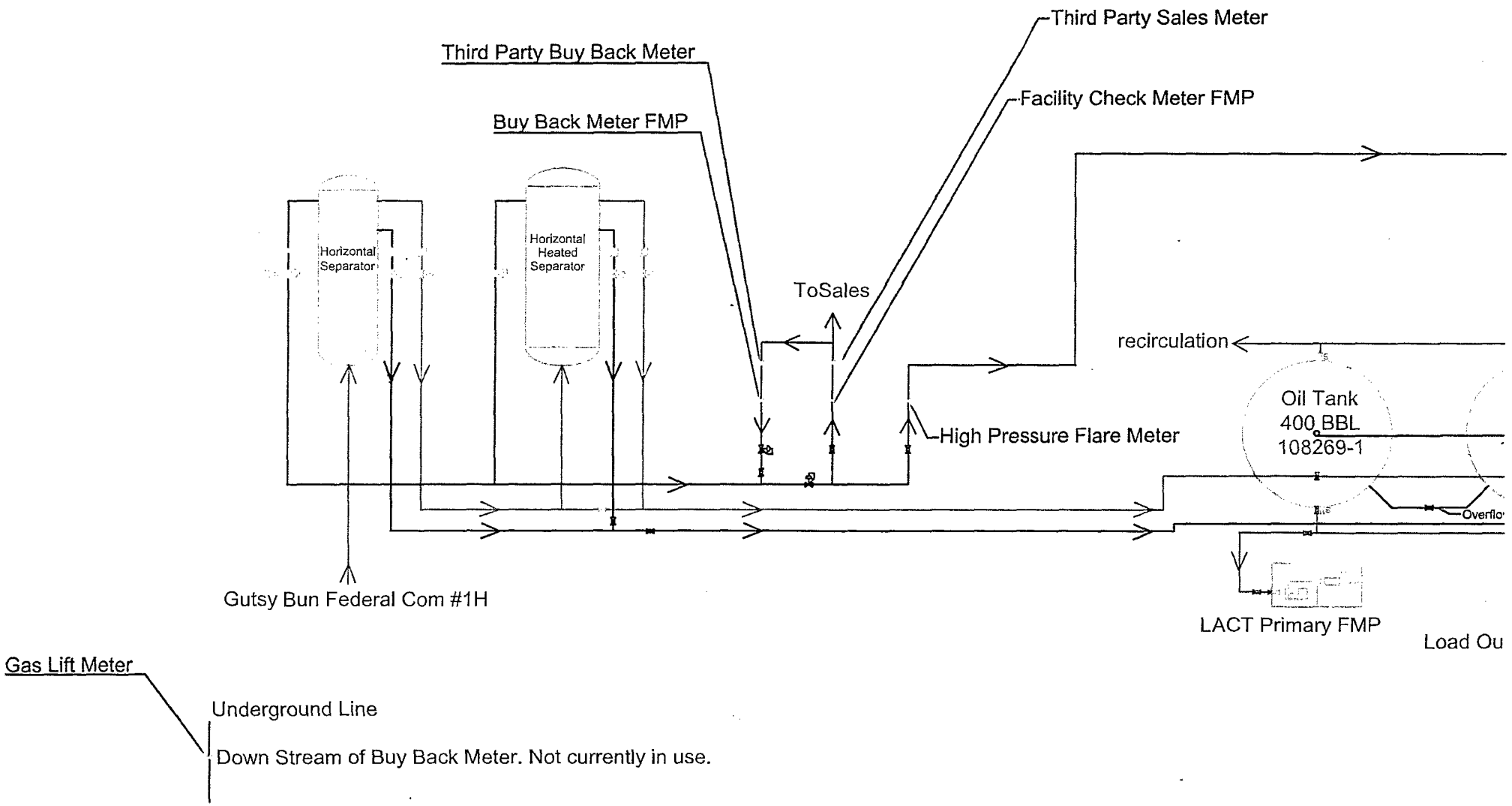
PRODUCTION PHASE: All valves that provide access to production are effectively sealed in the closed position.

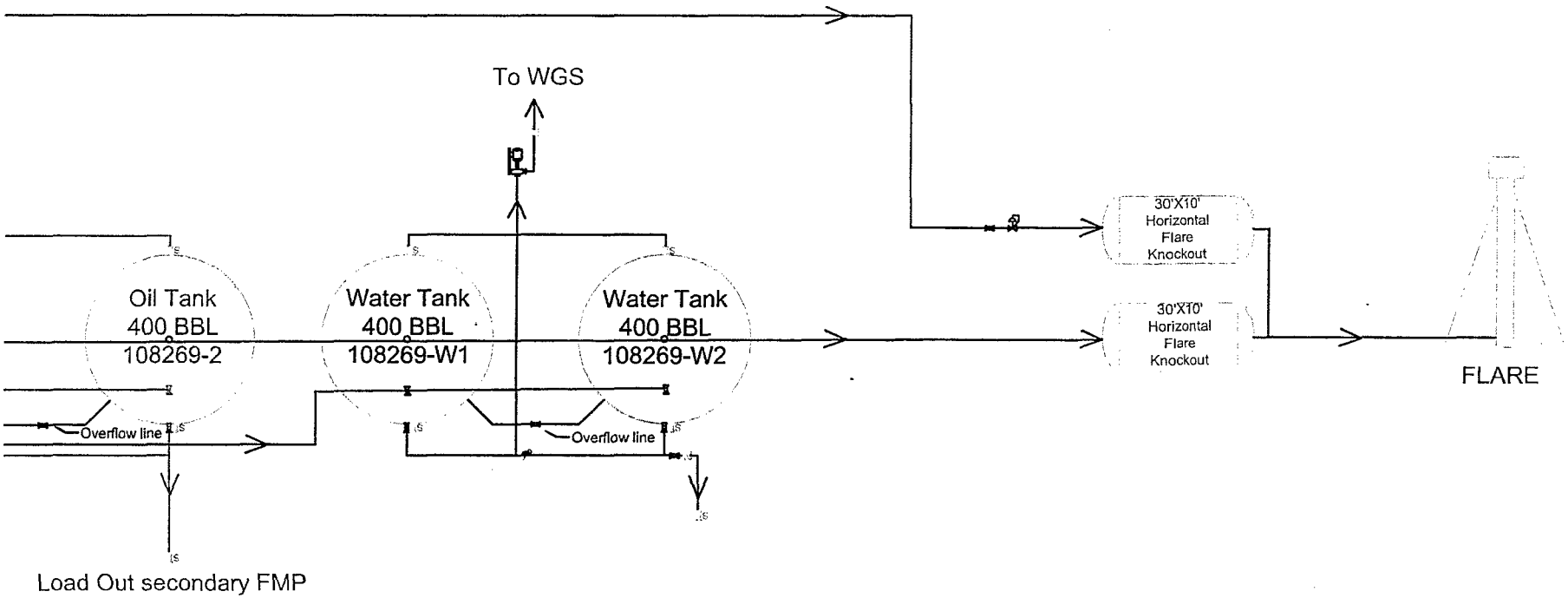
SALES THROUGH LACT UNITS: Sale is measured through LACT units. All other valves that provide access to production (load-out valves) are effectively sealed in the closed position.

WATER TANKS: If the possibility for oil to enter water tanks exists through common recirculating or equalizing lines, oil tanks are isolated from water tanks by valves effectively sealed in the closed position.



Facility Overview: Please see pages 2 and 3 for details.


Third Party Sales Meter
Third Party Buy Back Meter
Facility Check Meter FMP
Buy Back Meter FMP
Horizontal Separator
Horizontal Heated Separator
ToSales
recirculation
Oil Tank
400 BBL
108269-1
High Pressure Flare Meter
Gutsy Bun Federal Com #1H
LACT Primary FMP
Load Ou
Gas Lift Meter
Underground Line
Down Stream of Buy Back Meter. Not currently in use.


To WGS
Oil Tank
400 BBL
108269-2
Water Tank
400 BBL
108269-W1
Water Tank
400 BBL
108269-W2
Overflow line
Overflow line
30'X10'
Horizontal
Flare
Knockout
30'X10'
Horizontal
Flare
Knockout
FLARE
Load Out secondary FMP