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Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
1625 N. French Dr.
Hobbs, NM 88240

FORM APPROVED
OMB No. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NM-0112

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.

2. Name of Operator: EOG RESOURCES, INC.
Contact: BEV HATFIELD
E-Mail: beverly_hatfield@eogresources.com

8. Lease Name and Well No.: LUSK 22 FEDERAL 1

3. Address: P. O. BOX 2267, MIDLAND, TX 79702
3a. Phone No. (include area code): Ph: 915.686.3689 Fx: 915.686.3765

9. API Well No.: 30-025-35590

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: 715FNL 1330FWL
At top prod interval reported below
At total depth

10. Field and Pool, or Exploratory: LUSK, MORROW East

11. Sec., T., R., M., or Block and Survey or Area: Sec 22 T19S R32E Mer

12. County or Parish: LEA
13. State: NM

14. Date Spudded: 06/22/2001
15. Date T.D. Reached: 07/19/2001
16. Date Completed: ☒ D&A ☐ Ready to Prod. 08/30/2001
17. Elevations (DF, KB, RT, GL)*: 3610 GL

18. Total Depth: MD 13050 TVD
19. Plug Back T.D.: MD 13005 TVD
20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
GR/NEU/DEN/SP/DIFE/DAL/MX.

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)	Casing Top*	Amount Pulled
14.750	11.750 H40	42.000	0	628 ~~600~~	628 ~~500~~	335		0	
11.000	8.625 J-55	32.000	0	4604	4604	1500		0	
7.875	5.500 P110	17.000	0	13049 ~~13700~~	13049 ~~13700~~	1335		4580	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	12497							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	MORROW	12902	12910	12902 TO 12910	2.000	32	PRODUCING
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material
12902 to 12910	FRAC W/50-70% CO2 + 20/40 interprop; 100 gal Clay safe acid; 32,413 gal 63% col; 2914 gal 52% co2 foam; 2970 gal 49% co2 foam.

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
08/03/2001	08/07/2001	24	→	12.0	204.0	0.0	53.0	0.67	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**	
	509	0.0	→	12	204	0	16962	Prod.	

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)

ACCEPTED FOR RECORD
(ORIG. SGD.) DAVID R. GLASS
SEP 26 2001
DAVID R. GLASS
PETROLEUM ENGINEER

7 - BLM
1 - acd
1 - LTN
1 - hwc

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
MORROW	12902	12910		QUEEN	2940
				YATES	2990
				DELAWARE	5800
				BONE SPRING	7300
				WOLFCAMP	10475
				STRAWN	11476
				ATOKA SHALE	11925
				LOWER MORROW	12350
				MORROW CLASTIS	12815
				MISSISSIPPIAN	12900

32. Additional remarks (include plugging procedure):

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):

Name *(please print)* BEV HATFIELD Title Sr. Regulatory Admin.

Signature Bev Hatfield Date 09/10/2001

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.

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30 025 35590	~~80759~~ 80770	Lusk, Morrow East

4 Property Code	5 Property Name	6 Well Number
28095	LUSK FED. "22"	1

7 OGRID No.	8 Operator Name	9 Elevation
7377	EOG RESOURCES INC.	3610

10 Surface Location

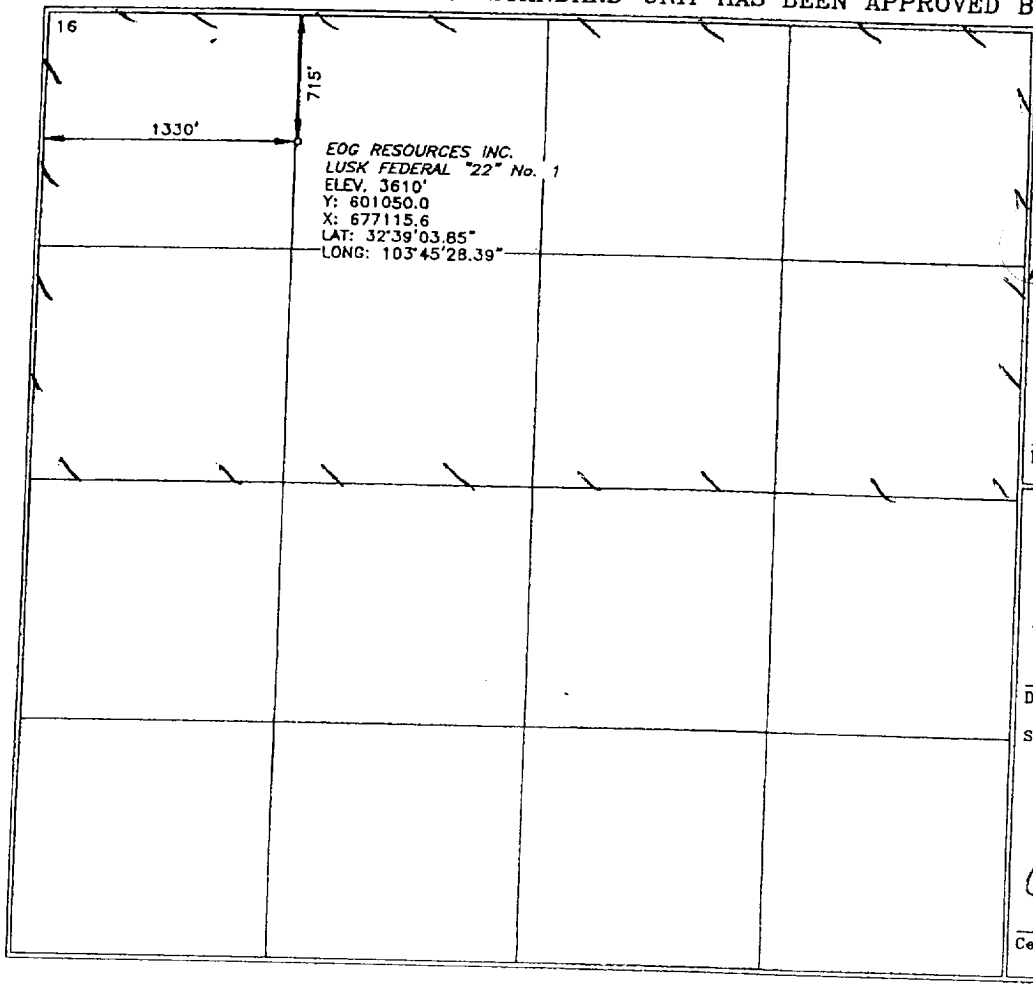
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	19	32		715	NORTH	1330	WEST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Bev Hatfield
Signature

BEV HATFIELD
Printed Name

SR. REGULATORY ADMINISTRATOR
Title

9-10-01
Date

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

MARCH 15, 2001
Date of Survey

Signature and Seal of Professional Surveyor:

JAMES E. TOMPKINS
NEW MEXICO
14729
REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number 14729

SCANNED

OPERATOR: EOG RESOURCES
WELL/LEASE: LUSK 22 FED. #1
COUNTY: LEA

498/263-0117

STATE OF NEW MEXICO
DEVIATION REPORT

200	3/4	11,614	1 3/4
628	3/4	12,107	1 3/4
710	1	12,448	2
1,030	3/4	12,928	2
1,529	3/4	13,050	2
2,027	1		
2,336	2		
2,528	2		
2,752	1		
3,037	1 1/4		
3,293	1 1/4		
3,805	1 1/4		
4,186	3/4		
4,566	3/4		
4,971	3/4		
5,417	1/2		
5,917	1		
6,407	3/4		
6,909	3/4		
7,396	1		
7,892	1		
8,257	1 1/2		
8,704	1 3/4		
9,080	2 3/4		
9,173	1 3/4		
9,418	2 1/4		
9,668	2 1/4		
10,040	2 1/4		
10,345	2 1/4		
10,825	2 1/2		
11,217	1 3/4		

By: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 31st day of July, 2001, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

Joni D. Hodges
Notary Public for Midland County, Texas

My Commission Expires: 3/31/2003

JONI D. HODGES
Notary Public
STATE OF TEXAS
My Comm. Exp. 03/31/2003

Submit in duplicate to appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator	EOG RESOURCES, INC.				Lease or Unit Name	LUSK 22 FED.			
Type Test: ☑ Initial ☐ Annual ☐ Special					Test Date: 8/7/01	Well No.: 1			
Completion Date: 8 3 01	Total Depth: 13050			Plug Back TD: 13005	Elevation	Unit Ltr - Sec - TWP - Rge: 22 19 32			
Csg. Size: 5 1/2	Wt.: 17	d	Set At: 13049	Perforations: From: 12902	To: 12910	County: ~~EDDY~~ Lea			
Tbg. Size: 2 7/8	Wt.: 6.5	d: 2.441	Set At: 12512	Perforations: From:	To:	Pool			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE				Packer Set At: 12429		Formation: MORROW			
Producing Thru: Tbg. Size	Reservoir Temp.°F: 183.7 @ 12900		Mean Annual Temp. °F: 60	Baro. Press.-P_a: 13.2		Connection: VENTED			
L: * 12900	H: 12900	Og: 0.668	%CO_2: 0.67	%N_2: 0.627	%H_2S: N/A	Prover: N/A	Meter Run: 4.026		Taps: FLG

	FLOW DATA				TUBING DATA		CASING DATA		
No.	Prover Line Size x Orifice Size	Press p.s.i.g.	Diff. h_w	Temp. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F	Duration of Flow
SI					3360	N/A	PKR	N/A	
1	4 X 1.750	509	2.56	160	3115		"		1 HR
2	4 X 1.750	491	5.29	140	2895		"		1 HR
3	4 X 1.750	527	8.41	110	2700		"		1 HR
4	4 X 1.750	564	21.2	70	2205		"		1 HR
5									

RATE OF FLOW CALCULATIONS

No.	COEFFICIENT (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor F_g	Super Compress Factor F pv	Rate of Flow Q. Mcfd
1	14.93	36.56	522.2	0.9158	1.224	1.029	630
2	14.93	51.65	504.2	0.9309	1.224	1.033	908
3	14.93	67.4	540.2	0.9551	1.224	1.043	1227
4	14.93	110.62	577.2	0.9905	1.224	1.059	2120
5							

No.	P_r	Temp. °R	T_r	Z
1	.77	620	1.64	.944
2	.75	600	1.58	.938
3	.80	570	1.50	.920
4	.86	530	1.40	.892
5				

Gas Liquid Hydrocarbon Ratio	16.962		Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons	53		Deg.
Specific Gravity Separator Gas	0.668	XXXXXXX	
Specific Gravity Flowing Fluid	XXXXX	GMIX .839	
Critical Pressure	670 P.S.I.A.	N/A	P.S.I.A.
Critical Temperature	378 R.	N/A	R

P_c 3867 P_c^2 14953.7

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3763.3	14162.4	791.3
2		3670.9	13475.5	1478.2
3		3542.4	12548.5	2405.2
4		3003.7	9022.2	5931.5
5				

(1) $\dfrac{P_c^2}{P_c^2 - P_w^2} = 2.521$ (2) $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.749$

AOF = Q 79825 $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.708$

Absolute Open Flow	3,708	Mcfd @ 15.025	Angle of Slope Q:	58.85	Slope n: 0.6043

Remarks: * BHP INSTREMENT SET @ THIS DEPTH---WELL PRODUCED 12.00 BBLS CONDENSATE

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	SIGNAL WIRE LINE	BM	BM

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE (Pc or Pw) FORM C-122F
FROM KNOWN BOTTOM HOLE PRESSURE (Pf or Ps)

COMPANY	EOG RESOURCES, INC	LEASE :	L.22 FED	WELL NO. :	1	DATE	8 7 01
UNIT		SECTION :	22	TWNSHP :	19	RANGE :	32
L	12900	H :	12900	L/H :	1	G/GMIX :	0.6680
		CO2 :	0.67	N2 :	0.627	H2S :	
		GH :	8617.2	PCR :	670	TCR :	378

LINE		1	2	3	4	5	6	7	8
1	TW(W.H. R)	534	534	534	534	534	534	534	534
2	Ts(B.H. R)	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
3	T=(Tw+Ts/2)	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
4	Z (EST.)	1.021	0.902	0.942	0.891	0.929	0.880	0.876	0.838
5	TZ	611	540	564	533	556	527	524	502
6	GH/TZ	14.107	15.966	15.288	16.157	15.506	16.358	16.444	17.173
7	eS(TABLE XIV)	1.697	1.820	1.774	1.833	1.789	1.847	1.853	1.904
8	Pf or Ps	5076.69	5076.69	4969.82	4969.82	4813.9	4813.9	4144.71	4144.71
9	Pf2 or Ps2	25772.8	25772.8	24699.1	24699.1	23173.6	23173.6	17178.6	17178.6
10	Pc2=Pf/eS or Pw2=Ps2/eS	15185.2	14162.7	13921.8	13475.5	12955.9	12548.3	9272.1	9022.1
11	Pc or Pw	3897	3763	3731	3671	3599	3542	3045	3004
12	P=(Pw+Ps/2)or(Pc+Pf/2)	4487	4420	4351	4320	4207	4178	3595	3574
13	Pr=(P/Pcr)	6.70	6.60	6.49	6.45	6.28	6.24	5.37	5.33
14	Tr(T/Tcr)	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
15	Z (TABLE XI)	0.902	0.897	0.891	0.889	0.880	0.878	0.838	0.837

PW 1 : 3763.3 PW 2 : 3670.9 PW 3 : 3542.4 PW 4 : 3003.7

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE (Pc ~~or Pw~~) FORM C-122F
FROM KNOWN BOTTOM HOLE PRESSURE (Pf ~~or Ps~~)

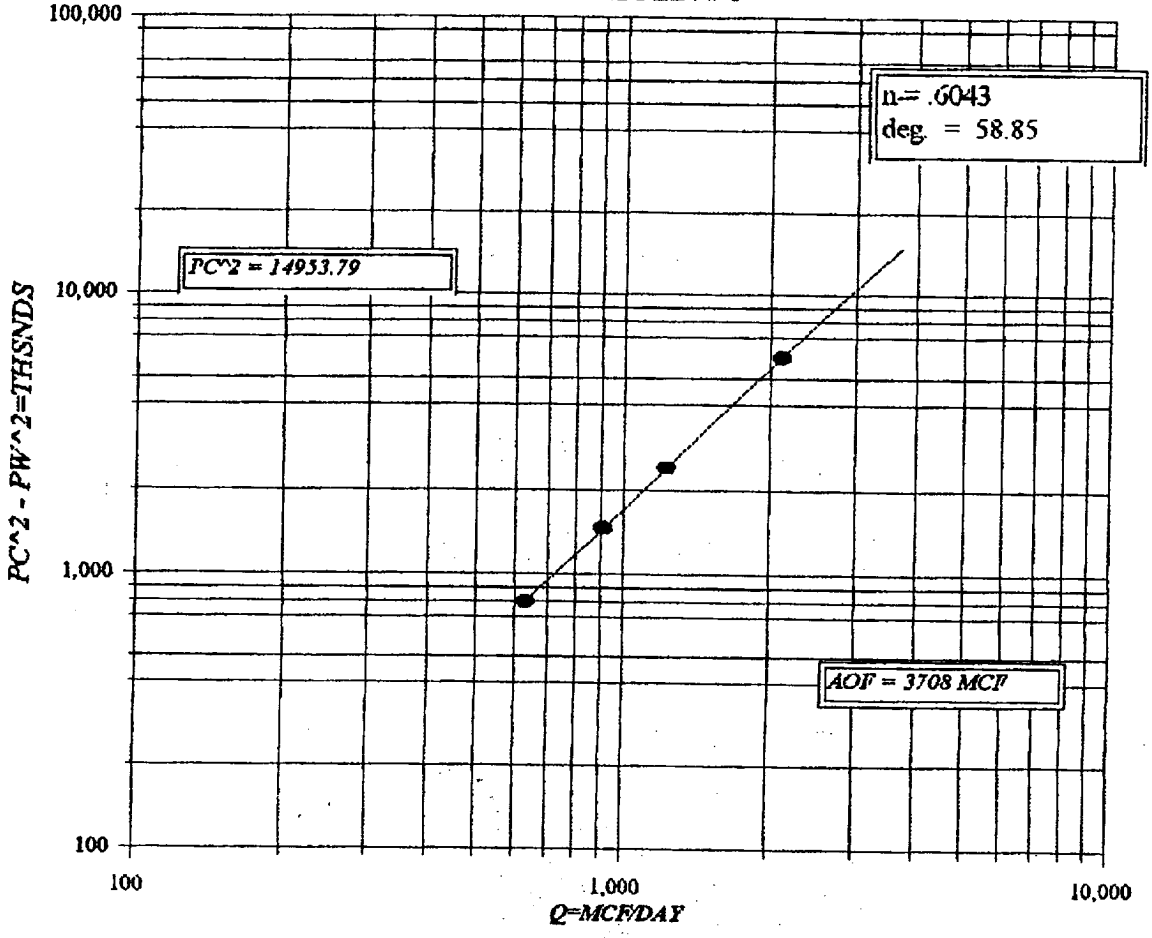
COMPANY	EOG RESOURCES, INC	LEASE :	L.22 FED	WELL NO. :	1	DATE	8 7 01
UNIT		SECTION :	22	TWNSHP :	19	RANGE :	32
L	12900	H :	12900	L/H :	1	G/GMIX :	0.6680
		CO2 :	0.67	N2 :	0.627	H2S :	
		GH :	8617.2	PCR :	670	TCR :	378

LINE		1	2	3	4	5	6	7	8
1	TW(W.H. R)	534	534	534	534	534	534	534	534
2	Ts(B.H. R)	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
3	T=(Tw+Ts/2)	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5
4	Z (EST.)	1.032	0.911	ERR	ERR	ERR	ERR	ERR	ERR
5	TZ	618	545	ERR	ERR	ERR	ERR	ERR	ERR
6	GH/TZ	13.948	15.803	ERR	ERR	ERR	ERR	ERR	ERR
7	eS(TABLE XIV)	1.687	1.809	ERR	ERR	ERR	ERR	ERR	ERR
8	Pf or Ps	5200.6	5200.6	0	0	0	0	0	0
9	Pf2 or Ps2	27046.2	27046.2	0.0	0.0	0.0	0.0	0.0	0.0
10	Pc2=Pf/eS or Pw2=Ps2/eS	16030.4	14953.4	ERR	ERR	ERR	ERR	ERR	ERR
11	Pc or Pw	4004	3867	ERR	ERR	ERR	ERR	ERR	ERR
12	P=(Pw+Ps/2)or(Pc+Pf/2)	4602	4534	ERR	ERR	ERR	ERR	ERR	ERR
13	Pr=(P/Pcr)	6.87	6.77	ERR	ERR	ERR	ERR	ERR	ERR
14	Tr(T/Tcr)	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
15	Z (TABLE XI)	0.911	0.906	ERR	ERR	ERR	ERR	ERR	ERR

PW 1 : 3867.0 PW 2 : ERR PW 3 : ERR PW 4 : ERR

EOG RESOURCES, INC

LUSK 22 FED. # 1



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NEW MEXICO G.O.R./G. MIX

NO. OF BBLS PRODUCED	=	12.0
API GRAVITY @ 60 DEG.	=	53.0
SPECIFIC GRAVITY OF GAS	=	0.6680
TOTAL GAS PRODUCED	=	204
G.O.R.	=	16.962
G.MIX	=	0.839