N. M. Oil Cons. Division ARTEGIA IMI SANTONIA FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000 **UNITED STATES** 5. Lease Serial No. PARTMENT OF THE INTERIOR NM94610 BUREAU OF LAND MANGEMENT If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER DRILL REENTER 1a. Type of Work: 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. Oil Well X Gas Well Other Single Zone Multiple Zone Type of Well: El Paso 13 Federal No. 2 Name of Operator API Well No. 30-015*-*3 EOG Resources, Inc 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3a. Address (915)686-3714 P.O. Box 2267, Midland, TX 79702 Ross Draw (Wolfcamp) Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T., R., M., or Bik. And Survey or Area At surface 1,980' FNL & 1,310' FWL (Unit Letter E) Sec 13, T26S, R30E At proposed prod. Zone Same as surface Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State NM 18 miles SE from Malaga Eddy 16. No. of Acres in lease 17. Spacing Unit dedicated to this well 15. Distance from proposed* location to nearest 960 N/2 property or lease line, ft. (Also to nearest drlg. Unit line, if any) same Distance from proposed location 19. Proposed Depth 20. BLM/BIA Bond No. on file to nearest well, drilling, completed applied for, on this lease, ft. 2,700 13,000 NM2308 21. Elevations (Show whether DF, KDB, RT, GL, etc) 22. Approximate date work will start* 23. Estimated duration GL-3188 6/1/2001 30 days 24. Attachments The following completed in accordance with the requirements of Onshore Oil an Gas Order No. 1, shall be attached to this form: bed Controlled Water Besin 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest Sytem Lands, the 5. Operator certification. SUPO shall be filed with the appropriate Forest Service Office) 6. Such other site specific information and/or plans as may be required by the Name (Printed/Typed) Date 25. Signature

Mete flane	Mike Francis	4/18/2001
Title		
Agent		
Approved by (Signature) /S/ LESLIE A. THEISS	Name (Printed/Typed) /s/ LESLIE A. THEISS	Date JUN 1 4 2001
Title FIFLD MANAGER	Office CARLSBAD FIELD	GEEICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rightes in the subject lease which would entitle the applicant to conduct operations theron.

APPROVAL FOR 1 YFAF

Conditions of approval, if any, are 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 fraudulent statements or representations as to any matter within its jurisidiction.

*(Instructions on reverse)

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED



BOSWELL DEFICE

SS:01MA 6199A 100S

BECEINED

<u>DISTRICY I</u> P. O. Box 1980 Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals, and Natural Resources Department

Form C-102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

DISTRICT II P. O. Drawer DD Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410

OIL CONSERVATION DIVISION P. 0. Box 2088 Santa Fe, New Mexico 87504-2088

AMENDED REPORT

DISTRIC P. O. Bo	T IV								
P. O. Bo	ox 20	88							
Santa F	e, NM	87507	-2088	WELL	LOCATION	AND	ACREAGE	DEDICATION	PLAT

*Property Code	
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Date of Survey APRIL 4, 2001	
Signature and Seal of	
Professional Surveyor	
	1. 01
Certificate No.	
V. L. BEZNER R.P.S. JOB # 75641 / 23 SE	

EOG RESOURCES, INC. EL PASO "13" FEDERAL NO. 2 1,980' FNL & 1,310' FWL SEC. 13, T26S, R30E EDDY COUNTY, NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Delaware	3330'
Cherry Canyon	4350'
Bone Spring	7200'
2 nd Bone Spring Sd	8800'
3 rd Bone Spring Sd	10000'
Wolfcamp	10420'
Wolfcamp Pay	11740'
Penn Marker	12800'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands 100' Fresh Water Upper Penn Gas

4. CASING PROGRAM

Hole Size	<u>Interval</u>	OD Casing	Weight Grade Jt. Cond. Type
14 3/4	0-400'	11 3/4"	42# H-40 ST&C
11"	0-4000'	8 5/8"	32# J-55 LT&C
7 7/8"	0-11700'	5 ½"	17# S95/P110 L&TC
4 3/4"	11400-13000'	3-1/2"	12.95# L80

Cementing Program:

11 3/4" Surface Casing: Cement to surface with 220 sx Prem Plus, 3%

Econolite, 2% Calcium Chloride, 0.25#/sx Flocele,

150 sx Prem Plus, 2% Calcium Chloride

8 5/8" Intermediate: Cement to surface with 715 sx Interfill C, .25#/sx

flocele, 250 sx Premium Plus, 2% Calcium Chloride

5 ½" Production Casing: Cement w/775 sx Premium, 3% Econolite, 5#/sx

Salt, .25#/sx Flocele, 250 sx Prem 50/50 Poz mix 'A', 2% Halliburton-Gel First 2%, 0.5% Halad-322, 0.2% HR-5. This is designed to bring TOC to

0.2% FIR-3. This is designed to bring TOC

3500'.

3 1/2" Casing: 100 sx Prem, 0.3% Halad-344, 0.3% Halad-413,

0.3% Super CBL, .15% SCR-100

This designed to bring TOC to 11400 +/-.

EOG RESOURCES, INC. EL PASO "13" FEDERAL NO. 2 1,980' FNL & 1,310' FWL SEC. 13, T26S, R30E EDDY COUNTY, NM

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1 and #2)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All BOP's and accessory equipment will be tested to 600 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/1000 psi and the annular to 3500/5000-psig pressure. The blowout preventer equipment (BOP) shown in Exhibit 2 will consist of a double ram-type (10,000 psi) preventer and an annular preventer (10,000 psi) from 11,700' to TD. Before drilling below 2nd Intermediate ram type BOP and accessory equipment will be tested to 10,000/1,000 psi and the annulus to 5000/1000. This equipment will be used from ±11,950' to TD.

EOG Resources, Inc. requests a variance for test surface casing and BOP. Eog will test surface casing and BOP to 600 psi before drilling out surface casing.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of brine, cut brine, and polymer/KCL mud system. The applicable depths and properties of this system are as follows:

		Wt	Viscosity	Waterloss
<u>Depth</u>	<u>Type</u>	(PPG)	(sec)	<u>(cc)</u>
0-400'	Fresh Water (spud)	8.5	40-45	N.C.
400'-4000'	Brine Water	10.0	30	N.C.
4000 -11700	Fresh Water	8.4	28	N.C.
11700'-13000'	Brine & Polymer xcd	10-14.0	28/45	0/<1 CC

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

EOG RESOURCES, INC.
EL PASO "13" FEDERAL NO. 2
1,980' FNL & 1,310' FWL
SEC. 13, T26S, R30E
EDDY COUNTY, NM

(C) A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 2000' to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

- (A) The electric logging program will consist of GR-Dual Induction Focused and GR-Compensated Density-Neutron from TD to intermediate casing with a GR-Compensated Neutron run from intermediate casing to surface and optional Sonic from TD to Intermediate casing.
- (B) Possible sidewall cores based on shows.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom hole temperature (BHT) at TD is 175 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 8000 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG RESOURCES, INC. EL PASO "13" FEDERAL NO. 2 1,980' FNL & 1,310' FWL SEC. 13, T26S, R30E EDDY COUNTY, NM

SURFACE USE AND OPERATIONS PLAN

1. EXISTING ROADS:

Access to location will be made as shown on Exhibit #3

Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

2. PROPOSED ACCESS ROAD:

202' of new road is required. Exhibit 3A

No turnouts necessary.

No culverts, cattleguards, gates, low-water crossings are necessary.

Surfacing material consists of native caliche to be obtained from the nearest BLM-approved caliche pit. Any additional materials required will be purchased from the dirt contractor.

3. LOCATION OF EXISTING WELLS:

Exhibit #4 shows all existing wells within a one-mile radius of this well.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

There are no existing production facilities. If production is encountered, a temporary facility will be established on the drill pad, and if warranted, a production facility would be built at a later date in the immediate area of the drill pad location. If the well is productive, the flowline would also be located on the drill-pad site and no additional disturbance will occur.

5. LOCATION AND TYPE OF WATER SUPPLY:

Water for drilling will be purchased from commercial sources and transported to the well site over the roads as shown on Exhibit #3.

EOG RESOURCES, INC. EL PASO "13" FEDERAL NO. 2 1,980' FNL & 1,310' FWL SEC. 13, T26S, R30E EDDY COUNTY, NM

6. PLANS FOR RESTORATION OF THE SURFACE:

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Location will be cleaned of all trash and junk to leave the well in an aesthetically pleasing condition as possible.

Any unguarded pits containing fluid will be fenced until they are dry and back filled.

After abandonment of the well, surface restoration will be in accordance with current federal laws and regulations. Location will be cleaned, and The wellpad removed to promote vegetation and disposal of human waste will be complied with. Trash, waste paper, garbage and junk will be hauled to an approved disposal site in an enclosed trash trailer.

All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

ANCILLARY FACILITIES:

No airstrip, campsite, or other facilities will be built.

WELL SITE LAYOUT:

Exhibit #5 shows the relative location and dimensions of the well pad.

EOG RESOURCES, INC. EL PASO "13" FEDERAL NO. 2 1,980' FNL & 1,310' FWL SEC. 13, T26S, R30E EDDY COUNTY, NM

OTHER INFORMATION:

The area around the well site is grassland and the topsoil is duned and sandy. The vegetation is native scrub grasses with abundant oakbrush, sagebrush, yucca, and prickly pear.

CERTIFICATION:

I HEREBY CERTIFY that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

W. D. Smeltzer Drilling Manager

UN Surf Date: 4-17-01

EOG RESOURCES, INC. EL PASO "13" FEDERAL NO. 2 1,980' FNL & 1,310' FWL SEC. 13, T26S, R30E EDDY COUNTY, NM

ATTACHMENT TO EXHIBIT #1 & #2

- 1. Wear ring to be properly installed in head.
- 2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1 and 10,000 psi W.P. minimum, Exhibit #2.
- 3. All fittings to be flanged
- 4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
- 5. All choke and fill lines to be securely anchored especially ends of choke lines.
- 6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 7. Kelly cock on kelly.
- 8. Extension wrenches and hand wheels to be properly installed.
- 9. Blow out preventer control to be located as close to driller's position as feasible.
- 10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

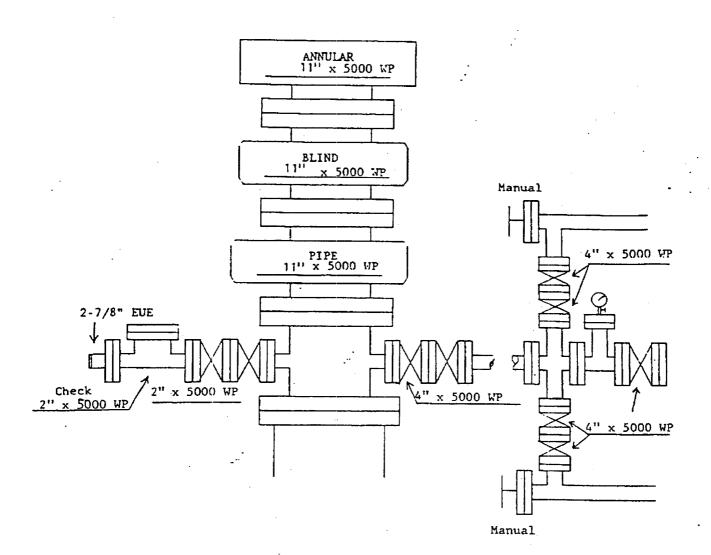


Exhibit 1

4.4.4

El Paso "13" Federal No. 2

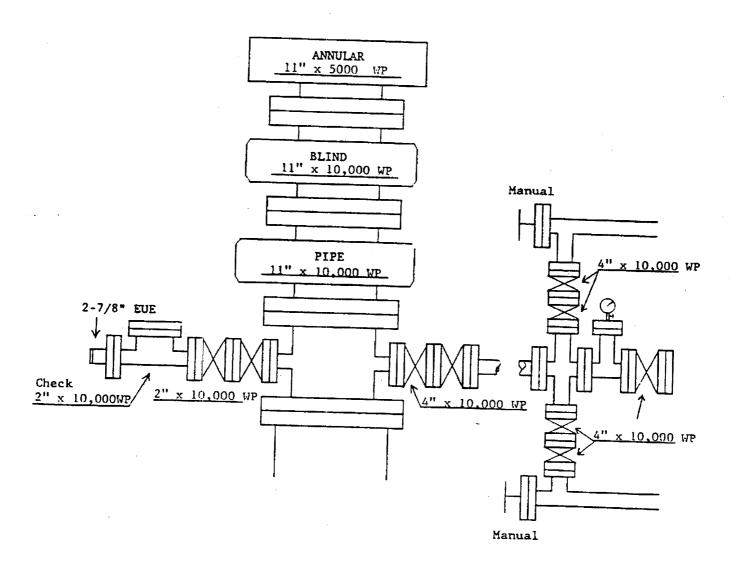
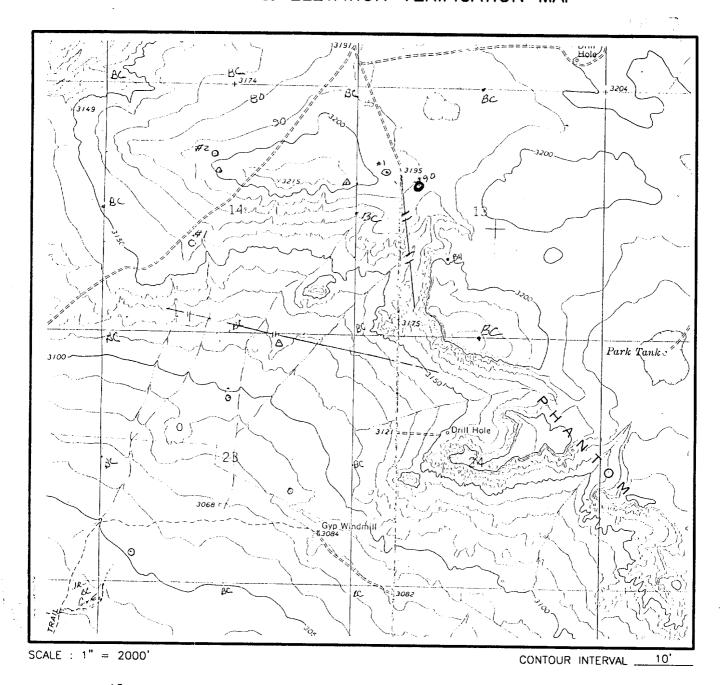


Exhibit 2

LOCATION & ELEVATION VERIFICATION MAP



SECTION	13	TWP.	20-5	R	GE	30-E	
SURVEY	NEW	MEXICO	PRINCIPAL	MERI	DIAN		
COUNTY		EDDY	S1	TATE	NM		
DESCRIPTION _		1980	'FNL &	1310'	FWL		
ELEVATION			3188'				
OPERATOR		EOG R	ESOURC	ES, I	NC.		
LEASE		EL PASO	"13" FEC	ERAL	#2		
U.S.G.S. TOPOGRAPHIC MAP PHANTOM BANKS, NEW MEXICO							
LAT			N 32*02	2'40"			

W 103'50'19"



This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

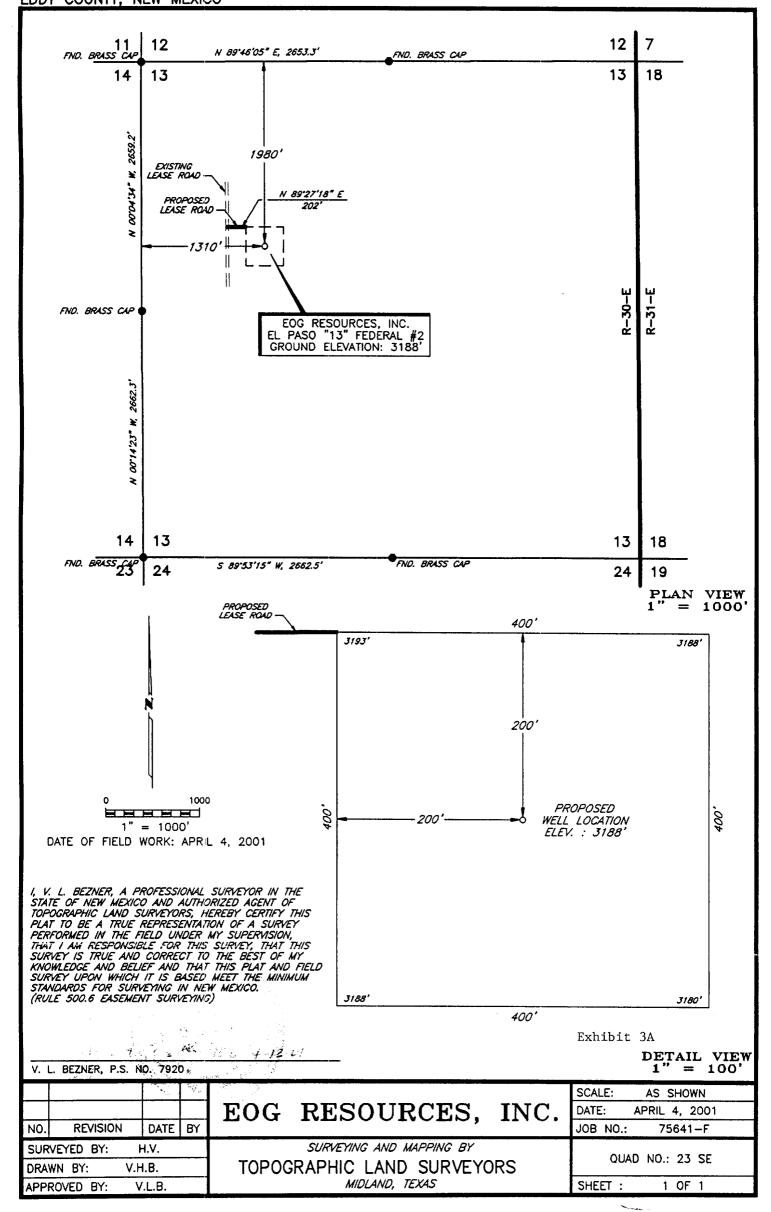
Review this plat and notify us immediately of any possible discrepancy.

TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

LONG. _

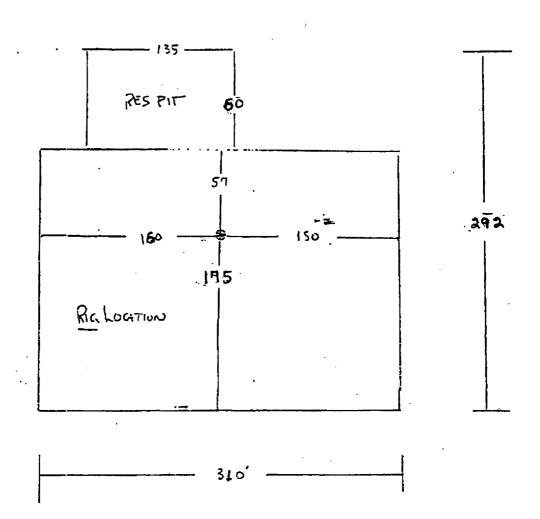
PLAT SHOWING PROPOSED
WELL LOCATION AND LEASE ROA N
SECTION 13, T-26-S, R-30-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



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(Exxon) et hsc.	Simoda Corp Sinclair of To 2500 All 1917 DAB 25 50	EOG Res. EOG Res 3.1.2009 (Cope Con) 10209 (Cope Cope Con) 10209 (Cope Cope Con) 10209 (Cope Cope Con) 10209 (Cope Cope Cope Cope Cope Cope Cope Cope	"El Paso Fed" TD6226 #BHL D0412+9-C3 9.9 Nil	"E Pesso "BR Fed." "E Pesso U.S	(Boyd & Mewilliams) 1P Pet.60% Baytech, 60% B6437 TOTT Fire Pet. Sold Mel 11P Pet. Williams! 60% HBC % V.S. Spitfire 18"	Union Yates Fet et al Francisco 9 4825 17/4 19-12 13 U \$ 170.29
o ^l	Pogo Prod. 6 · 1 · 2009 102917 19092	J.C.Williams,etal 0480904	EOG Res. ACX Pet V:9 1624 16343 15311 HBP Leckhert Synd # BBH 103120 + 3350bis di Paso-Fed. "	EOG Res. Alturo Biller III SPACES SPACES 19626 19626	19.34 S.G. Sell 1 P P 2 t 50 % 1 - 1 - 2008 180 ud. € 1 McWilliams 1 McWilliams 1 0 45962 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	EOG Res. 0437880
Fed.Com." d Pgal e Fed 1350 273 66	ZI ROSS DRAW UNIT J. C. WILLIAMSON (OPER), Fred Pool Feed 10 3407 10 3407 10 3407 10 3407	Ecron 21 Williamson that Ross Oraw 4 Milliamson that Ross Oraw 4 Milliamson that Ross Oraw 17 Milliamson that Ross Oraw 17	EOG Res, A Ring To dis 1 Sarnet 1 ACX Pect ACX Pect 1 Cont Ener. ACX Pect 1 Cont Energy 1 Cont	606 Rts Marbob	70.71 - 1 - 2 94.1 - 3 - 2 94.1	Wilson Fed a Phonorom Dr. Uh." TO 9809 IN THE PHONOR DR. U.S. Phonorom Dr. Uh." TO 9809 IN THE PHONOR DR. U.S. Phonorom Dr. Uh." TO 9809 IN THE PHONOR DR. U.S.
.ol1₽	J.C.Williamson, et al. Fred Pool 19812 Sinclair Fed Pool 19812 Pool 10 3983 Pool 1014 2:17:59 Ji-19 Fed	J.C. Williamson.etal 199,055443 17 (Flor do Cupi) Ressor y Williamson 30Mil Pass Draw 168 Pass Draw 168 Pass Draw	JC. Marshall F. Winston Williamson F. Winston Letal 174 etal 0554499 Tiud 2 Phosphass Draw	Exhibit 4		1G 36 39
P.C. 60 5. WM 0.3410 /A.6.31.55	J.C. Williamson Pentage (Estoril, etal) TOPENTAGE (Estoril, etal)	7055 Urow (Penroc) (Penroc) (Villemon etal	Williamson Epicipie Sylvanian (Foreign Spanian) 18 OSSA 499 Rass Drew Und U.S.	Wells within	one (1) mile rad	dius of well
f7240 7	William Di Estoriti 912 Son BP 13-189 2 0480 904	UC Williamsonatal of the control of	Williampon, etal. Marshall Edwinston (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			- , -
	i. J.			LOVING	County	

Exhibit V

El Paso "13" Federal No. 2.



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Statement Accepting Responsibility For Operations

Operator Name:

EOG Resources, Inc.

Street or Box:

P.O. Box 2267

City, State:

Midland, TX

Zip Code:

79702

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.:

NM94610

Legal Description of Land: Section 13, T26S, R30E, NMPM

Lea Co., NM

Formation(s) (if applicable):

Bond Coverage: (State if individually bonded or another's bond)

Individually

BLM Bond File No.: NM2308 with endorsement to State of NM

Authorized Signature:

Title: Agent

Date: 4/18/01