ern 20 2007

	2Eb 5 0 5001		OCD-ART	FSIA				
Form 3160-3 (February, 2005)	OCD-ARTESIA				FORM AP OMB No. 1 Exputes Ma			
	UNITED DEPARTMENT O BUREAU OF LA				5. Lease Serial No. NM 2346(SHL);)
	APPLICATION FOR PERI				6. If Indian, Allotee o	r Tribe Nan	16	
la. Type of wo	rk: 🗸 DRILL	REENTER	,		7 If Unit or CA Agreer	ment, Name	and No.	
lb. Type of W	ell: Oil Well 📝 Gas Well 🔲	Other	Single Zone Mul	tiple Zone	8. Lease Name and W CRUSOE BKO		и 2H	
2. Name of Op	EOG Resources, Inc.				9_API Well No.	5	3.5.	— 824
3a Address p	O. Box 2267 Midland, TX 79702	1	none No. (include area code) 132-686-3642		10. Field and Pool, or Ex Cottonwood Cr		camp W	√est
4. Location of At surface At proposed	Well (Report location clearly and in according 1880' FNL & 660' FEL (prod. zone 1880' FNL & 660' FWI	(U/L H)	requirements.*)		11. Sec., T. R. M. or Blk Section 24, T169	•		
	niles and direction from nearest town or po miles NW of Artesia, NM	st office*			12. County or Parish Eddy	13	3. State NI	<u>м</u>
15. Distance from location to n property or l (Also to near	earest	16. 3 2	No. of acres in lease		ng Unit dedicated to this work to the second of the second			
to nearest we	m proposed location* ill, drilling, completed, on this lease, ft. 1,120'		Proposed Depth 100' TVD; 8,525' TMD	20. BLM/ NM2	BIA Bond No. on file 308			
21. Elevations GL 3,61	(Show whether DF, KDB, RT, GL, etc.)	22. /	Approximate date work will s 10/15/2007	tart*	23. Estimated duration 24			
		24.	Attachments		· · · · · · · · · · · · · · · · · · ·			
	ompleted in accordance with the requireme	nts of Onshore Oil					J 61.	
2. A Drilling Pla 3. A Surface Us	ified by a registered surveyor. an. se Plan (if the location is on National Force filed with the appropriate Forest Service		Item 20 above , the 5. Operator certi). fication	ons unless covered by an e	-		·
25. Signature	Dry D. Mty	-	Name (Printed/Typed) Donny G. Glanto	n		Date 08/30/	2007	
Title	r. Lease Operations ROW Represen	tative						_
Approved by (Sig	/s/ Don Peterson	· · · · · · · · · · · · · · · · · · ·	Name (Printed/Typed) /S/ Doi	1 Peter	son	DatSEP	18	2007
Title TILE	ID BARBACED		Office					

FIELD MANAGER

CARLSBAD FIELD OFFICE

Application approval 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. APPROVAL FOR TWO YEARS

Conditions of approval, if any are attached.

States any f

*(Instruc

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

y person knowingly and willfully to make to any department or agency of the United er within its jurisdiction.

ROSWELL CONTROLLED WATER BASIN

SEE ATTACHED FOR CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO SENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

District 1

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

AMENDED REPORT

Submit to Appropriate District Office

State Lease- 4 Copies

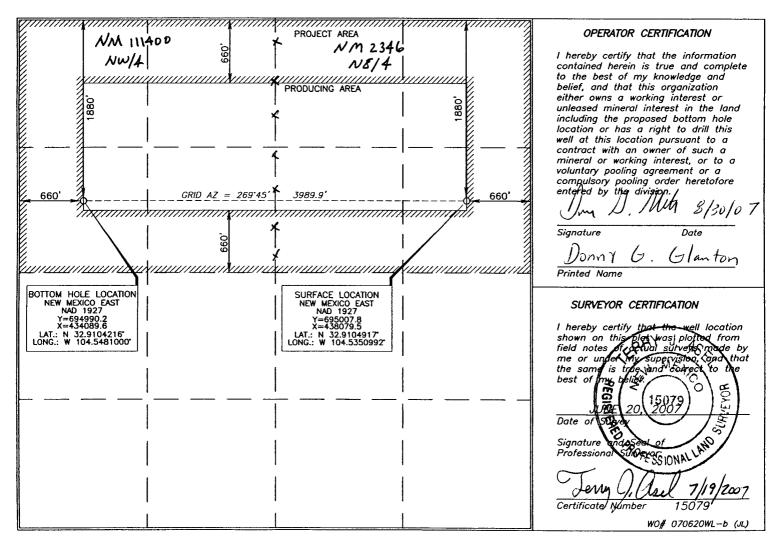
Fee Lease-3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code		Pool Na	me
	75260	Co TTon wood	Creek;	Wolfcamp West
3 6749	•	rty Name O FED. COM		Well Number $\mathcal{Z}H$
OGRID No.	Opera	or Name		Elevation
7377	EOG RESO	URCES, INC.		3614'
	Surfac	e Location		

Lot Idn Feet from the North/South line Feet from the UL or lot no. Section Township Range East/West line County H16 SOUTH 24 EAST, N.M.P.M. NORTH 24 1880' 660 EAST **EDDY** Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 24 EAST. N.M.P.M. \boldsymbol{E} 24 16 SOUTH NORTH 1880' WEST 660' EDDYConsolidation Code **Dedicated Acres** Joint or Infill 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.



Statement Accepting Responsibility For Operations

Operator Name:

EOG Resources, Inc.

Street or Box: City, State:

P.O. Box 2267 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.: NM 111400; NM 2346

Legal Description of Land: N/2 of Section 24, T-16-S; R-24-E, N.M.P.M., Eddy Co. NM

Formation:

Cottonwood Creek; Wolfcamp West

Bond Coverage:

Nationwide

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

Authorized Signature: Jm J Mu4

Donny G. Glanton

Title: Sr. Lease Operations ROW Representative

Date: 7/26/2007

DRILLING PROGRAM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Quaternary Alluvium

0-200

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

San Andres	480'
Glorieta	1,750°
Tubb	3,060'
Abo Shale	3,740'
Wolfcamp Pay	4,710'

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

0- 200'	Fresh Water
480'	Oil
1,750'	Oil/Gas
3,050'	Oil/Gas
4,710'	Gas
	480° 1,750° 3,050°

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 8.625" casing at 900' and circulating cement back to surface.

4	~	SING	DDC	CD	A B/E
4.	t.A	. NING-	PKU.	ИγК	AIV

. CASIN	NG PROG	RAM C	New?	. 1	-			
		n	11-ew) eur Opi 5/1,	NOTON	1./11	Collapse	Burst	Tension
		,	5/6/	10% 60		<u>Design</u>	<u>Design</u>	<u>Design</u>
<u>Hole</u>	<u>Interval</u>	OD Csg	Weight	<u>Grade</u>	Conn.	<u>Factor</u>	Factor	Factor
12.250"	0-900'	8.625"	32#	J-55	LT&C	5.41	3.83	10.94
7.875"	0-8,525	5.5"	17#	N-80	LT&C	2.63	1.99	4.13

Cementing Program:

8.625" Surface Casing: Cement to surface, Lead: 560 sx Light Prem Plus + 5

> pps Gilsonite + 2% CaCl₂, 12.4 ppg, 2.05 yield Tail: 370 sx Prem Plus + 2% CaCl₂, 14.8 ppg, 1.35

yield

5.50" Production: Cement to surface, Lead: 400sx Interfill C + 0.125 pps

Poly-E-Flake, 11.9 ppg, 2.47 yield

Tail: 800 sx 50:50 Poz Premium + 5% LAP-1 + 0.2%

Econolite, 14.4 ppg, 1.25 yield

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

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 in accordance with Onshore Oil & Gas order No. 2. for a 3M system.

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.

EOG Resources requests a variance to eliminate the stipulation requiring a BOPE test within 500' of the Wolfcamp. The Wolfcamp is not expected to be abnormally pressured (approx 1,800 lbs.) and the BOPE will be tested to the appropriate pressure requirements as per Onshore Order No. 2 prior to drilling out of the surface casing.

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 mud system. The applicable depths and properties of this system are as follows:

		Wt	V 1SC	cosit w aterios	35
<u>Depth</u>	<u>Type</u>	(PPG)	(sec)	<u>(cc)</u>	
0-900'	Fresh – Gel	8.6-8.8	28-34	N/c	
900'-4,400'	Cut Brine	8.8-9.2	28-34	N/c	
4,400'-5,200'	Cut Brine	8.8-9.2	28-34	10-15	
4,358'-8,525'	Polymer (Lateral)	9.0-9.4	40-45	10-25	

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.

8. LOGGING, TESTING AND CORING PROGRAM:

Electric logging will consist of GR-Dual Laterlog and GR-Compensated Density-Neutron from +/-900' to TVD.

Possible sidewall cores based on shows.

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

The estimated bottom hole temperature (BHT) at TD is 125 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 2000 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.

Planning Report

Database:

EDM

Company:

EOG - Midland (3)

Project:

Thames

Site: Well:

Crusoe BKO Fed Com #2H Crusoe BKO Fed Com #2H Crusoe BKO Fed Com #2H

Wellbore: Design:

Original Plan

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Local Co-ordinate Reference: Well Crusoe BKO Fed Com #2H

WELL @ 3633.00ft (Original Well Elev)

WELL @ 3633.00ft (Original Well Elev)

Minimum Curvature

Project

Map System: Geo Datum:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Map Zone:

New Mexico East 3001

System Datum:

Ground Level

Crusoe BKO Fed Com #2H

Site Position:

Northing: Easting:

695,007.80ft 438,079.50ft Latitude: Longitude: 32° 54' 37.770 N

From: 104° 32' 6.357 W Position Uncertainty: 0 00 ft Slot Radius: **Grid Convergence:** -0.11

Crusoe BKO Fed Com #2H

Well Position

+N/-S +E/-W 0.00 ft 0 00 ft Northing: Easting:

695,007 80 ft 438,079.50 ft Latitude: Longitude:

32° 54' 37.770 N 104° 32' 6.357 W

Position Uncertainty 0 00 ft Wellhead Elevation: **Ground Level:** 3,614.00ft

Wellbore 😌 Crusoe BKO Fed Com #2H

Field Strength **Magnetics** Model Name: 4 Sample Date Declination Dip Angle **IGRF2005** 7/23/2007 8.53 60.72 49,263

Original Plan **Audit Notes:** Version: Phase: **PROTOTYPE** Tie On Depth: 0 00 Depth From (TVD) +N/-S +E/-W Direction (ft) (ft): (ft) (3) 0 00 0.00 269 75

Plan Sections Measured Depth In	clination A	vzimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate (°/100ft)	Rate	Turn Rate	TFO	
				SAME.						Target
0 00	0.00	0 00	0.00	0.00	0 00	0 00	0.00	0 00	0 00	
4,258.00	0.00	0 11	4,258.00	0.00	0 00	0.00	0.00	0.00	0.11	
5,015 12	90.00	269.74	4,740.00	-2.19	-482 00	11.89	11 89	0.00	269.74	
6,015 12	90 00	269.74	4,740 00	-6.73	-1,481.98	0.00	0.00	0.00	0.00	
6,081 86	92.00	269 75	4,738.83	-7.02	-1,548 70	3.00	3 00	0.02	0.33	
8,524.48	92.00	269 75	4,653.50	-17.60	-3,989 81	0 00	0.00	0 00	0.00	
8,524.57	92.00	269.75	4,653.50	-17.60	-3,989.90	3.00	-2 28	-1 95	0.00 BH	L (Crusoe BKO

EOG RESOURCES INC.

Planning Report

Database:

Company:

EDM

EOG - Midland (3)

Thames

Project: Site: Crusoe BKO Fed Com #2H Crusoe BKO Fed Com #2H Well: Crusoe BKO Fed Com #2H Wellbore:

Original Plan Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

ATTACKED ATTACK

Well Crusoe BKO Fed Com #2H

WELL @ 3633.00ft (Original Well Elev) WELL @ 3633.00ft (Original Well Elev)

Minimum Curvature

	- a - relative por la servicio.			a con State of State		the state of the same of the s	en in her of a copies of the co	ernen <u>Grand</u> namente Grand Grand	THE STATE OF THE SECOND STATE OF SECOND SECO
Planned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth In	clination A	vzimuth	⇒ ∪eptn → (ft)			Section (ft)	Rate (°/100ft)	- Rate (°/100ft)	
	(°) 0 00	0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	0.00	0.00	0.00	0.00
0.00 100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0 00	0.11	200.00	0 00	0.00	0.00	0.00	0.00	0.00
300 00	0 00	0.11	300.00 400.00	0 00	0.00	0.00	0.00 0 00	0 00 0.00	0 00 0.00
400.00	0.00	0.11		0.00	0.00	0.00	0 00	0.00	0.00
500.00 600.00	0.00 0.00	0.11 0.11	500.00 600 00	0.00 0.00	0.00 0.00	0.00 0 00	0.00	0.00	0.00
700.00	0.00	0.11	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0 00	0.11	800.00	0 00	0.00	0.00	0.00	0 00	0.00
900.00	0 00	0.11	900.00	0.00	0 00	0.00	0.00	0.00	0.00
1,000.00 1,100.00	0.00 0.00	0.11 0.11	1,000.00 1,100.00	0.00 0.00	0.00 0.00	0.00 0 00	0.00 0.00	0.00 0.00	0.00 0.00
1,200.00	0.00	0.11	1,200.00	0.00	0.00	0.00	0 00	0.00	0.00
1,300.00	0 00	0.11	1,300.00	0.00	0.00	0.00	0 00	0.00	0.00
1,400.00	0.00	0.11	1,400.00	0.00	0.00	0.00	0.00	0 00	0.00
1,500.00 1.600.00	0.00 0.00	0.11 0.11	1,500 00 1,600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 00.0
1,700.00	0.00	0.11	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0 11	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0 11	1,900.00	0.00	0.00	0.00	0 00	0.00	0.00
2,000.00	0 00 0.00	0.11	2,000.00 2,100.00	0.00 0 00	0.00 0.00	0.00 0.00	0.00 0.00	0 00 0.00	0.00 0.00
2,100.00 2,200.00	0.00	0.11 0.11	2,200.00	0 00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.11	2,300.00	0.00	0.00	0.00	0 00	0 00	0.00
2,400.00	0.00	0.11	2,400.00	0.00	0.00	0.00	0 00	0.00	0.00
2,500.00	0 00	0.11	2,500.00	0.00	0.00	0.00	0.00 0.00	0 00 0 00	0.00 0 00
2,600.00 2,700.00	0.00 0.00	0 11 0.11	2,600 00 2,700,00	0.00 0.00	0 00 0.00	0.00 0.00	0.00	0.00	0.00
2,800 00	0 00	0.11	2,800.00	0.00	0 00	0.00	0.00	0.00	0.00
2,900.00	0.00	0 11	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0 11	3,000.00	0.00	0 00	0.00	0.00	0.00	0.00
3,100.00 3,200.00	0.00 0 00	0.11 0.11	3,100.00 3,200.00	0 00 0 00	0 00 0.00	0.00 0.00	0.00 0.00	0 00 0 00	0 00 0.00
3,300.00	0.00	0 11	3,300.00	0.00	0.00	0 00	0.00	0.00	0.00
3,400.00	0 00	0 11	3,400.00	0.00	0.00	0 00	0.00	0 00	0 00
3,500.00 3,600.00	0.00 0.00	0.11 0.11	3,500.00 3,600.00	0 00 0.00	0 00 0.00	0 00 0.00	0.00 0.00	0.00 0.00	0.00 0 00
3,600.00 3,700.00	0.00	0 11	3,700.00	0.00	0.00	0.00	0 00	0 00	0 00
3,800.00	0 00	0.11	3,800.00	0.00	0.00	0.00	0.00	0 00	0.00
3,900.00	0.00	0 11	3,900.00	0.00	0 00	0 00	0.00	0.00	0.00
4,000.00 4,100 00	0.00 0.00	0.11 0.11	4,000.00 4,100.00	0.00 0.00	0 00 0.00	0.00 0.00	0.00 0.00	0 00 0.00	0.00 0.00
4,100 00	0.00	0.11	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,258.00	0.00	0.11	4,258.00	0 00	0 00	0.00	0.00	0.00	0.00
4,300.00	4 99	269 74	4,299 95	-0 01	-1.83	1 83	11 89	11.89	0.00
4,400 00	16.88 28.77	269.74 269.74	4,397.95	-0.09 -0.27	-20.77	20.77	11 89 11.89	11 89 11.89	0 00 0 00
4,500 00 4,600.00	28.77 40.65	269.74 269.74	4,489.96 4,572.02	-0.27 -0.53	-59.48 -116.33	59.49 116.33	11.89	11.89	0.00
4,700.00	52 54	269.74	4,640 61	-0.86	-188.85	188.85	11.89	11.89	0 00
4,800 00	64.43	269.74	4,692.79	-1.24	-273.94	273.95	11 89	11 89	0.00
4,900.00	76 32	269 74	4,726 32	-1 67	-367.96	367.97	11.89	11 89	0.00
5,000.00 5,015.12	88.20 90.00	269.74 269.74	4,739.76 4,740 00	-2.12 -2 19	-466.87 -482.00	466 88 482 00	11 89 11 89	11 89 11 89	0.00 0.00
5,100.00	90 00	269.74	4,740.00	-2.57	-566.87	566.88	0.00	0.00	0 00

EOG RESOURCES INC.

Planning Report

Database: Company: EDM

EOG - Midland (3)

🕍 Thames Project:

8,524 48

8,524.57

92.00

92 00

BHL (Crusoe BKO Fed Com #2H)

269.75

269.75

Site:

- Crusoe BKO Fed Com #2H 🖟 Crusoe BKO Fed Com #2H

Local Co-ordinate Reference: Well Crusoe BKO Fed Com #2H
TVD Reference: WELL @ 3633.00ft (Original Well Elev) MD Reference:

North Reference:

Survey Calculation Method:

WELL @ 3633.00ft (Original Well Elev)

Minimum Curvature

0.00

3 00

0.00

-2.28

0.00

-1.95

Vellore: Crusoe Vellbore: Crusoe esign: Origina	BKO Fed C al Plan	om #2H	રૂ, જાલ દે.(જ. છું [*] ે	Survey	Calculation N	lethod:	Minimum Curva	ture	i garantan sa sanangan sa sa sa
19 72 MT 80 3 88 877 1 2 1 10	14 5 Sup 45 WY 14 186	These Services South	no some se se respectivo e	· Bishows	** * **** 324	agreen gran and a visit	Second to be the second	(* * * * * * * * * * * * * * * * * *	
Measured					DAY 19				
Measured			Vertical 📆	生。在15年15日		Vertical	Dogleg	Build	Turn
· · · · · · · · · · · · · · · · · · ·	clination 🛠	AZIMUTH 🐣 🌣	Depth	+N/-S	+E/-W	Section	∛ Rate ⊴	Rate	Rate
(ft)		* (°) * * * *	(ft)	(ft)	ं (ft) े	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
5,200.00	90 00	269.74	4,740.00	-3.03	-666 87	666 88	0.00	0.00	0.00
5,300.00	90.00	269 74	4,740.00	-3.48	-766.87	766.88	0 00	0.00	0.00
5,400.00	90.00	269.74	4,740 00	-3.93	-866.87	866.88	0.00	0.00	0.00
5,500 00	90 00	269.74	4,740.00	-4 39	-966.87	966.88	0 00	0.00	0.00
5,600.00	90.00	269.74	4,740 00	-4.84	-1,066.87	1,066.88	0 00	0.00	0.00
5,700.00	90.00	269.74	4,740.00	-5.30	-1,166.86	1,166.88	0.00	0.00	0.00
5,800.00	90.00	269.74	4,740.00	-5.75	-1,266.86	1,266.88	0 00	0.00	0.00
5,900.00	90.00	269.74	4,740.00	-6.20	-1,366.86	1,366.88	0.00	0.00	0.00
6,000.00	90.00	269.74	4,740.00	-6.66	-1,466.86	1,466.88	0 00	0 00	0.00
6,015.12	90.00	269 74	4,740 00	-6 73	-1,481.98	1,482.00	0.00	0.00	0 00
6,081.86	92.00	269.75	4,738.83	-7.02	-1,548 70	1,548.72	3.00	3.00	0.02
6,100.00	92 00	269.75	4,738.20	-7.10	-1,566.84	1,566.85	0 00	0.00	0.00
6,200.00	92.00	269.75	4,734.71	-7 53	-1,666.77	1,666.79	0.00	0.00	0.00
6,300.00	92 00	269 75	4,731 21	-7 97	-1,766.71	1,766.73	0.00	0.00	0.00
6,400.00	92.00	269.75	4,727.72	-8.40	-1,866.65	1,866.67	0.00	0.00	0.00
6,500.00	92.00	269.75	4,724.23	-8.83	-1,966.59	1,966.61	0.00	0.00	0.00
6,600.00	92 00	269.75	4,720.73	-9.27	-2,066 53	2,066 55	0.00	0.00	0.00
6,700.00	92.00	269.75	4,717.24	-9.70	-2,166.46	2,166.49	0.00	0.00	0.00
6.800.00	92.00	269.75	4,713 75	-10.13	-2.266.40	2.266.42	0.00	0.00	0.00
6,900.00	92.00	269.75	4,710.25	-10.15	-2,366.34	2,366 36	0.00	0.00	0.00
7,000.00	92.00	269.75	4,706.76	-11 00	-2,466.28	2,466.30	0.00	0.00	0.00
7,100.00	92.00	269.75	4,703.27	-11.43	-2,566.22	2,566.24	0 00	0.00	0 00
7,200.00	92 00	269 75	4,699.77	-11 86	-2,666.15	2,666.18	0.00	0.00	0.00
7,300.00	92.00	269.75	4,696.28	-12.30	-2,766.09	2,766 12	0.00	0.00	0.00
7,400.00	92.00	269.75	4,692.79	-12.73	-2,866.03	2,866 06	0.00	0 00	0.00
7,500.00	92.00	269.75	4,689.29	-13 16	-2,965.97	2,966.00	0.00	0.00	0.00
7,600.00	92.00	269.75	4.685.80	-13.60	-3,065 91	3,065 94	0.00	0 00	0.00
7,700.00	92.00	269.75	4,682.31	-14.03	-3,165.84	3,165.87	0.00	0.00	0.00
7,800.00	92.00	269.75	4,678.81	-14.46	-3,165.78	3,265.81	0.00	0.00	0.00
7,900.00	92.00	269.75	4,675 32	-14.90	-3,365.72	3,365.75	0.00	0 00	0.00
8,000.00	92.00	269.75	4,671.83	-15 33	-3,465.66	3,465.69	0.00	0.00	0.00
8,100 00	92 00	269.75	4,668.33	-15.76	-3,565.60	3,565.63	0.00	0 00	0.00
8,200.00	92.00	269.75	4,664 84	-16.19	-3,665.53	3,665.57	0.00	0.00	0.00
8,300.00	92.00	269.75	4,661.35	-16.63	-3,765.47	3,765,51	0 00	0.00	0.00
8,400.00	92.00	269.75 269.75	4,657.85	-17.06	-3,865 41	3,865.45	0.00	0.00	0.00
8,500 00	92.00	269.75	4,654.36	-17.00	-3,965 35	3,965.39	0.00	0.00	0.00
0,500 00	92.00	209.75	4,004.30	-17 49	-3,900 30	3,903.39	0 00	0.00	0.00

	p Angle D		TVD. (ft)	+N/-S (ft)	+E/-W. (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
BHL (Crusoe BKO Fe - plan hits target - Point	0 00	0 12	4,653.50	-17 60	-3,989.90	694,990.20	434,089.60	32° 54' 37 518 N	I 104° 32' 53 160 W

-17 60

-17 60

-3,989 81

-3,989 90

3,989.85

3,989.94

4,653 50

4,653 50

	+N/-S 0.00	+E/-V 0.0		Northing 695007.80	Ground Le Eastir 438079.5	vel: 361 ng 50 32° 54	Lati	ttude 70 N 1	04° 32	Longitud ' 6.357 V	e V	S	lot		
· · · · · ·					SECTIO	ON DETAIL	 _S								
	0.00 2 4258.00 3 5015.12 4 6015.12 5 6081.86 6 8524.48 7 8524.57	Inc 0.00 0.00 90.00 90.00 92.00 92.00 92.00	Azi 0.00 0.11 269.74 269.74 269.75 269.75	TVD 0.00 4258.00 4740.00 4740.00 4738.83 4653.50 4653.50	0.00 0.00	0.00 0 0.00 0 2.00 11 1.98 0 8.70 3 9.81 0	.00 .00 .00	0.11 269.74 0.00 0.33 0.00	0.00 0.00 482 148 154 398) ,00 2.00 8.72 9.85					
0-							1						T		_
750— - -						450	0-1								
1500						375	0-1		·						
2250-						300	0 -								_
3000						229	xo - 1 - 1								
3750						150	00-								
4500						South(-)/North(+) (1500 ft/in)	x = 1 = 0x								
5250						North(+)	0-1		, ,						
6000							50 -								
6750						-150	00								
7500						-229	50 =								
8250						-300	00 =								_
9000		<u> </u>				-37	50-1		<u>,</u>						
9750						-45	00-1								
-	0	750	1500	2250 300 269.75° (150			-	-375		-3000	-2250	-1500	-750	0	1

Crusoe BKD Fed Com 2H

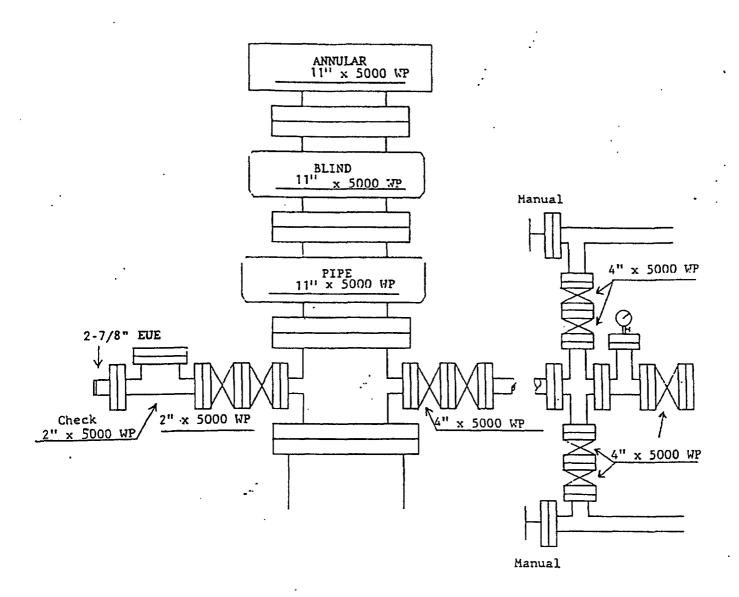


Exhibit 1



EOG Resources, Inc. P.O. Box 2267 Midland, TX 79702 (432) 686-3600

July 23, 2007

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H₂S Contingency Plan for the Crusoe BKO Fed Com #2H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H₂S bearing formations during drilling operations.

Sincerely,

Jason LaGrega Drilling Engineer

COMPANY REPRESENTATIVES:

Representatives responsible for ensuring compliance of the surface use plan are listed below:

Permitting & Land

Mr. Donny G. Glanton
Senior Lease Operations ROW Representative
EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3642 Office
(432) 770-0602 Cell

Drilling

Operations

Mr. Jason LaGrega	Mr. Howard Kemp
Division Drilling Engineer	Production Manager
EOG Resources, Inc.	EOG Resources, Inc
P.O. Box 2267	P.O. Box 2267
Midland, TX 79702	Midland, TX 79702
(432) 686-3633 Office	(432) 686-3704 Office
(432) 894-1217 Cell	(432) 634-1001 Cell

ATTACHMENT TO EXHIBIT #1

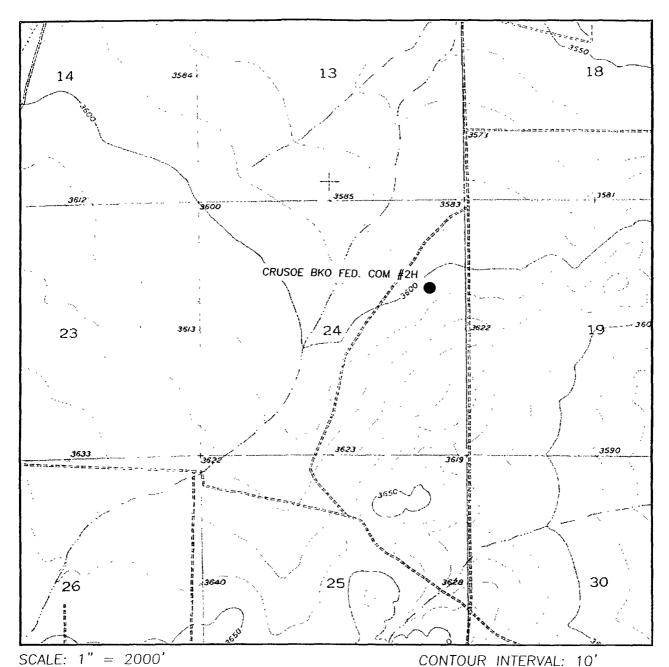
- 1. Wear ring to be properly installed in head.
- 2. Blow out preventer and all fittings must be in good condition, 3000 psi W.P. minimum. Exhibit #1.
- 3. All fittings to be flanged
- 4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 3000 psi 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.

OPERATOR CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 30 day of August , 2007.

Name:	Doriny G. Glanton Dun J. / WM	
Position:	Sr. Lease Operations ROW Representative	
Address:	P.O. BOX 2267 Midland, TX 79705	
Telephone	e: 432-686-3642	
Field Repr	resentative (if not above signatory):	
Address (i	if different from above):	
Telephone	e (if different from above):	
E-mail (or	ptional): donny glanton@eogresources.com	

LOCATION VERIFICATION MAP



CONTOON INTERVAL.

SEC. <u>24</u> TWP. <u>16-S</u> RGE. <u>24-E</u>				
SURVEYN.M.P.M.				
COUNTYEDDY				
DESCRIPTION 1880' FNL & 660' FEL				
ELEVATION 3614'				
OPERATOR EOG RESOURCES INC.				
LEASE CRUSOE BKO FED. COM #2H				
U.S.G.S. TOPOGRAPHIC MAP HOPE N.E., N.M.				

Asel Surveying & Consulting

P O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 505-393-9146



	-		SEINE C 6 FEE	IDED	
Exhibit "3"	GILA	PO 1H	SEINE CI 6 FEB T	IBER B	MERAMEC LES
EXHIVIT 3	C	c *	PRSN-W	TSN AULT	C MERAMEC C 4
		PO C1 FEE	SEINE C6 FEE	TIBER B5 FEE	2H
	BRAZOS /	SAN SABA A	2 FEE YELLOW A 7 FEE	1 62 0	POTOMAC A B FE
	1H _ ජ	SAN SABA A	HARLAN THE YELLO	WA7 EE TIBER B5 FEE	POTOMAC A 9 FE A POTOMAC A 9 FE
Α	Α	A 2H ☆	1-Y 🐴 2H	211	A STONIAG AS FE
10	1 1 88A7O6 B4	SAN SABA F	12 FEE YELLOW BY FEE A	B 1625-6	T-GOM-
NUECES	BRAZOS !!!	SAN SABA	YELLOW:	FRIO	92
В	B "	B SAN SABA B	12 FEE 2H BYELLOW BEAR 14	2 ; ;	, t
- 4		- Theresal	** - **	0 7 \$	ST COM 1625 1625 STATE COM
	1/1	SAN	SABA B12 FEE FRIO A 8 F	EE FRIO B 8 FEE	
1		14 1			
15		MACKENZIE	18	COTTONWOOD 'KI' FED	16
SABINAL 15		MACKENZIE 13 FEE		1	, 5
0	DESPER 106	TATE MACKENZIE 1	FEE NWD KI FED	1.	
	9	AACKENZIE 13 FEBOBINSON HI	2H		l l
COLORADO A 22 EEO C		2H 311		•	TERRY FU COM
COLORADO A 22 FED C	<i>[</i>]	CRUSOE BE F	d Com		TERRY /FU/
22 COLORADO A	A22 FED 23	24			☆
COLORADO	RIO GRANDA	ROBINSON	w FED , 3	50	21
	GRANDE 23 FED	ROBINSON HV 3 FED 2H	V FED ST 1625 ST COM 1	625 1625 ST COM	1625 FED COM 211
COLORADO B22 FED	o # •		191 201 块	202	FED-CC
	RIO GRANDE 23	Αp	1625 FET625 ED COM	ST 1625 291	27
	2H				
27	26			20	
.21	20	ROBINSON HŴ DEL	30	29	28
		NEW NEW 25 FE	D	STCC	M 1625
		1H 读			M 1625 \$1 C-
			FED COM 321	1625	
	COLLINS-HS-FED		321		
,	35 35 35 35 35 35 35 35 35 35 35 35 35 3	00			
34	₫ 5 ′	36	1,2,1	1625 FED CON	j
		07,004	1625 EED COMTHAMES 31 EED	322	
		ST ST 624	1625 FED COMTHAMES 31 FED 31 H 1 年		
		∳ ²² EE	COM 1725 CANADIAN & ST		
	1		1 1		
EOG					N/S
Crusoe BKO Fed. Com	#2H 👙	;	3	3	੍ਰ ਵ
1722	T COM.				

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 2 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822

- 1. Although no Hydrogen Sulfide has been reported in this Township, it is always a potential hazard.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. When floor controls are required, (3M or Greater) controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

B. CASING

- 1. The 8-5/8 inch surface casing shall be set at **approximately 900** feet and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial action will be done prior to drilling out that string.

Possible lost circulation in the Grayburg and San Andres formations. Possible high pressure gas bursts in the Wolfcamp formation.

- 2. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 3. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. The appropriate BLM office shall be notified a minimum of 2 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 - e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore

Order No. 2.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

Engineer on call phone (after hours): Carlsbad: (505) 706-2779

WWI 091107