lýn:	m3160-3 1 156 C/2	}	lo Allor		FORM	5-08 APPROVEI		
,(ř;: 	DEC 26 2007 UNITED STAT	ÈS	OCD-ARTESI	A,	Expires	o 1004-013 March 31, 2		
	DEC 26 LOUT UNITED STAT DEC 26 LOUT UNITED STAT DEC 26 LOUT UNITED STAT BUREAU OF LAND M OCD APPLICATION FOR PERMIT T	E INTERIO	DR ENT HIGH CA	/EKAI	5 Lease Serial No. RTNM 100530			
	OCD APPLICATION FOR PERMIT T	O DRILL	OR REENTER		6. If Indian, Allotee	or Tribe l	Name	
				.)	7. If Unit or CA Agr	eement No	me and No	
la	. Type of work: 🖌 DRILL REE	NTER		7				
lb	. Type of Well: Oil Well Gas Well Other	С	Single Zone Multip	ole Zone	8. Lease Name and CHAMA 3 FI		3698	
2.	Name of Operator EOG Resources, Inc.		~	_	9. API Well No.	- 7		
3a	Address P.O. Box 2267 Midland, TX 79702	3b. Phon	e No. (include area code)		30 - 015 10. Field and Pool, or	-) Explorator	<u>6007</u>	
		432	-686-3642		Gophe			
4.	Location of Well (Report location clearly and in accordance with	h any State req	uarements.*)		11. Sec., T. R. M. or I	Blk. and Su	vey or Area	
	At surface 1,880' FSL & 660' FEL (U/L I) At proposed prod. zone 1,880' FSL & 660' FWL (U/L I)	L) Roswe ¹	Il Controlled Water E	Basin	Section 3, T18	8 S-R23 E,	N.M.P.M.	
14	Distance in miles and direction from nearest town or post office*				12 County or Parish		13 State	
	Approx 4.5 miles SE of Hope, NM				Eddy		NM	
15.	Distance from proposed* 660' location to nearest property or lease line, ft	16 No.	of acres in lease	17. Spacir	ng Unit dedicated to this	well		
	(Also to nearest drig. unit line, if any)	320			ec 3, T18S-R23E, N.M	M.P.M.		
18	Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,120'		posed Depth ' TVD; 8,235' TMD	20. BLM/ NM2	/BIA Bond No. on file 308			
21	Elevations (Show whether DF, KDB, RT, GL, etc.)	22. App	roximate date work will star	rt*	23. Estimated duration	on		
	GL 3,929'		12/10/2007 .ttachments		18			
The	e following, completed in accordance with the requirements of On			tached to th	nis form			
	Well plat certified by a registered surveyor.				ons unless covered by ar	ı existing h	and an file (see	
2.	A Drilling Plan.		Item 20 above).	•			(
3.	A Surface Use Plan (if the location is on National Forest Syst SUPO must be filed with the appropriate Forest Service Office).	em Lands, th			ormation and/or plans a	s may be r	equired by the	
25	Signature	M N	ame (Printed/Typed)			Date		
Tit			Donny G. Glanton			11/1	6/2007	
4 1	sr. Lease Operations ROW Representative	N	ame (Printed/Typed)		· ·	Dote	- 1	
	proved by (Signature) /s/ Don Peterson		/s/ Don	Peter	son	Date)E(; 2 1 200	
Tit	FIELD MANAGER	0	ffice CARLS	BAD	FIELD OFF	ICE		
cor	plication approval does not warrant or certify that the applicant iduct operations thereon. nditions of approval, if any, are attached.	holds legal or	equitable title to those righ	ts in the sul	bject lease which would APPROVAL	entitle the a	••	
Titl Sta	le 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it tes any false, fictitious or fraudulent statements or representations	a crime for a s as to any ma	ny person knowingly and v ter within its jurisdiction.	villfully to r	nake to any department	or agency	of the United	
*(Instructions on page 2)				<u></u>	X 'A 21.11.F		
					PROVAL SUBJ			
				000		DENTE	NITO	

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED ł.

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(432) 686-3642 Office (432) 770-0602 Cell Donny_Glanton@eogresources.com **EOG Resources, Inc.** P.O. Box 2267 Midland, TX 79702 (432) 686-3600

December 4, 2007

BLM – Carlsbad Office 620 E. Greene Carlsbad, NM 88220

Re: CHAMA 3 FED 1H

EOG Resources, Inc. ("EOG") certifies that a Surface Use and Compensation Agreement has been entered into on December 3, 2007 between, William D. Crockett, Trustee of the William D. Crockett Revocable Trust and EOG covering the lands associated with the surface hole location of the above referenced well.

Contact Information:

Will Crockett P.O. Box 265 Artesia, NM 88211 (505) 703-5970 cell

Doepp Crockett (505) 703-5970 cell

1. Mot

Donny G. Glanton Sr. ROW Lease Operations Representative

energy opportunity growth

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District II 1301 W. G District III 1000 Rio E District IV	rand Ave Brazos R	nue, Arte	, NM 88240 esia, NM 88; ;, NM 87410 anta Fe, NM	210	0	als & No IL CONSE 220 Sout	atural RVATI h St.	v Mexico Resource ON DIVISIO Francis D M 87505		nt Submit	to Approp Stc Fo	d October oriate Dis ite Lease	rm C-102 r 12, 2005 trict Office - 4 Copies - 3 Copies REPORT
				WELL L	<u>OCAT</u>	ION AND	ACRE	AGE DEDI	CATION PLAT	Γ			
30-01		Numb	ber		Pool (776	Code 60		G.	opher.	Pool Name (Wolfcam)	p)		
Pro	perty Co	de				F	Property 1		\rightarrow			We	ell Number
						CHAI	MA 3	FED.					1H
00	GRID No.					C	perator	Name					Ievation
7377					E	OG RES	SOUR	CES, INC	<i>c</i> .				3929'
L						Sur	face	Location					
UL or lot no.	Section	T	ownship	1	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	County
I	3	18	SOUTH	23 EAS	T, N.	М. Р. М.		1880'	SOUTH	660'	EA	IST	EDDY
<u></u>				Bott	om H	lole Loco	ition	lf Differen	t From Sur	face			
UL or lot no.	Section	T	ownship		Range		Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County
L	3	18	SOUTH	23 EAS	T, N.	М. Р. М.		1880'	SOUTH	660'	WE	EST	EDDY
Dedicated	Acres	Joint	t or Infill	Consolidation C	ode	Order No.	I	.	·	4I			
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.



VICINITY MAP



ROAD, GO SOUTH 0.6 MILES TO LOCATION.

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LOCATION VERIFICATION MAP



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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	3,050'
Abo Shale	3,740'
Wolfcamp Pay	4,540'

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

Quanterary Alluvium	0-200'	Fresh Water
San Andres	480'	Oil
Glorieta	1,750'	Oil/Gas
Tubb	3,050'	Oil/Gas
Abo/Wolfcamp Pay	4,540'	Gas

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. CASING PROGRAM-NEW

						<u>Collapse</u>	<u>Burst</u>	Tension
	λ.					Design	<u>Design</u>	Design
<u>Hole</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Grade</u>	Conn.	Factor	Factor	Factor
12.250"	0-900'	8.625"	32#	J-55	LT&C	6.01	3.84	11.41
7.875"	0-8,235'	5.5"	17#	N-80	LT&C	2.74	1.26	3.35
Hole 12.250" 7.875"								

<u>Cementing Program</u>: 8.625" Surface Casing:

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Cement to surface, Lead: 345 sx 35:65 Poz C + 0.005 pps Static Free + 2% CaCl₂ + 5 pps LCM-1 + 0.005 gps FP-6L + 6% Bentonite, 12.5 ppg, 1.97 yield Tail: 400 sx Prem Plus C + 0.125 pps CelloFlake + 0.005 FP-6L + 0.005 pps Static Free, 14.8 ppg, 1.33 yield

5.50" Production:

Cement to surface, Lead: 630 sx 50:50 Poz C + 0.005 pps Static Free + 0.125 pps CelloFlake + 0.005 gps FP-6L + 10% Bentonite, 11.8 ppg, 2.29 yield Tail: 745 sx 50:50 Poz C + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.05% R-3 + 0.2% CD-32 + 0.3% FL-52A, 14.2 ppg, 1.30 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	Vis	cositWaterlo	SS
	Depth	<u>Type</u>	<u>(PPG)</u>	(sec)	<u>(cc)</u>	
coQ.	<i>(</i> 0-900'	Fresh – Gel	8.6-8.8	28-34	N/c	
Soft	Z-900'-4,400'	Cut Brine	8.8-9.2	28-34	N/c	
U	4,400'-5,200'	Cut Brine	8.8-9.2	28-34	10-15	
	4,060'-8,235'	Polymer (Lateral)	9.0-9.4	40-45	10-25	
			1	1		1

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:

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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.

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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

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- 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.

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EXHIBIT 1

EOG Resources, Inc. Chaina 3 Fed 1H



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. WELL, NAME:

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5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the puppese of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

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[54 FR 39528, Sept 27, 1989]

Permit Information:

Well Name: Chama 3 Fed #1H

Revised 11/16/07

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Location:

SL	1880' FSL & 660' FEL, Section 3, T-18-S, R-23-E, Eddy Co., N.M.
BHL	1880' FSL & 660' FWL, Section 3, T-18-S, R-23-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	900'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,235'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No.	Slurries:
	Sacks	
900'	500	Lead: 35:65 Poz C + 6% Bentonite+ 0.005 gps FP-6L + 0.005 pps Static Free + 5 pps LCM-1 + 2% CaCl2
	400	Tail: Premium Plus C + 0.005 gps FP-6L + 0.005 pps Static Free + 0.125 pps CelloFlake
8,235'	630	Lead: 50:50 Poz:Class C + 0.005 gps FP-6L + 10% Bentonite + 0.005 pps Static Free + 0.125 pps CelloFlake
	745	Tail: 50:50 Poz:Class C + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.3% FL-2A + 0.2% CD-32 + 0.05% R-3

Mud Program:

0	Depth	Туре	Weight (ppg)	Viscosity	Water Loss
D'NI	0-900'	Fresh - Gel	8.6-8.8	28-34	N/c
Scol	900' - 4,400'	Cut Brine	8.8-9.2	28-34	N/c
- C	4,400' - 5,200'	Cut Brine	8.8-9.2	28-34	10-15
	4,060' - 8,235'	Polymer (Lateral)	9.0-9.4	40-45	10-20

EOG RESOURCES INC.

Planning Report

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EOG RESOURCES INC.

Planning Report

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500.00 600 00 700 00 800 00 900.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	500 00 600 00 700.00 800.00 900.00	0 00 0.00 0.00 0 00 0 00	0.00 0 00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
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COMPASS 2003 16 Build 42

EOG RESOURCES INC.

Planning Report

Dafabase: Company: Project: Site: Chama 3 Fed #1H				Local Co-ordinate Reference TVD Reference MD Reference North Reference.			Well Châma 3 Fed #1H WELL @ 3948.00ft (Original Well Elev) WELL @ 3948.00ft (Original Well Elev) Grid		
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8,200.00	92.00	268 95	4,460.20	-70 67	-3,862.81	3,863.46	0 00	0 00	0.00
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EOG Resources, Inc. P.O. Box 2267 Midland TX 79702 (432) 686-3600

August 1, 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 H_2S Contingency Plan for the Chama 3 Fed #1H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H_2S bearing formations during drilling operations.

Sincerely, Jason LaGrega Drilling Engineer

energy opportunity growth

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SURFACE USE PLAN OF OPERATION

SHL: 1880' FSL & 660' FEL, Unit I, Section 1, T18S-R23E, N.M.P.M., Eddy, NM BHL: 1880' FSL & 660' FWL, Unit L, Section 1, T18S-R23E, N.M.P.M., Eddy, NM

1. EXISTING ROADS:

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by Terry Asel, RPL 15079.
- b. All roads into the location are depicted on Exhibit 2 & 2a.
- c. <u>Directions to Locations:</u> Beginning in Artesia, NM, Go west on Hwy 82 for approx 14.9 miles, Turn south on CR 8 (Santa Road) for 2.1 miles, Turn left on lease road for 0.8 miles, turn right on lease road for 1.0 miles, turn right on lease road for 0.1 miles to staked new road, go south 0.6 miles to location.

2. NEW OR RECONSTRUCTED ACCESS ROAD:

- a. The well site layout, Exhibit 2b shows the layout. The proposed access road, begins on paved CR 8 (Santa Road) and trends ESE to the N Side of the well pad. (See 1c above for driving directions).
- b. The maximum width of the road will be 15'. It will be crowned and made of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent soil erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. Cattleguards will be set where fences are cut. No turnouts are planned.

3. LOCATION OF EXISTING WELLS:

Exhibit #3 shows all existing wells within a one-mile radius of this well.

4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:

- a. In the event the well is found to be productive, the Chama 3 Fed 1H tank battery would be utilized and the necessary production equipment will be installed at the well site. See Production Facilities Layout diagram.
- b. As a proposed gas well, we do not anticipate the need for electrical service.
- c. All flow lines will adhere to API standards.
- d. As a proposed gas well, we do not anticipate the need for electrical service.
- e. If the well is productive, rehabilitation plans are as follows:
 - i. The reserve pit will be back filled after the contents of the pit are dry (within 120 days after completion, weather permitting).

ii. The original topsoil from the well site will be returned to the location. The drill site will be contoured as close as possible to the original state.

5. LOCATION AND TYPE OF WATER SUPPLY:

This location will be drilled using a combination of water mud systems (outlined in the drilling program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using existing and proposed roads shown in Exhibit 2. On occasion, water will be obtained from existing water wells. In these cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If poly pipeline is used to transport fresh water to the location, proper authorization will be secured by the contractor.

6. CONSTRUCTION MATERIALS

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. All roads will be constructed of rolled and compacted caliche.Will use BLM recommended use of extra caliche from other locations close by roads, if available.

7. METHODS OF HANDLING WASTE MATERIALS

- a. Drill cuttings will be disposed of in the reserve pit.
- b. All trash, junk, and other waste material will be contained in trash cages or trash bins to prevent scattering. When a job is completed, all contents will be removed and disposed of in an approved landfill.
- c. The supplier, including broken sacks, will pick up salts remaining after completion of well.
- d. If necessary, a porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken for further drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approved disposal site. Later pits will be broken out to speed dry. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in a storage tank and sold.
- f. Disposal of fluids to be transported by the following companies:
 - i. RGB TRUCKING
 - ii. LOBO TRUCKING
 - iii. I & W TRUCKING

v.

- iv. CRANE HOT OIL & TRANSPORT
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8. ANCILLARY FACILITIES:

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

9. WELL SITE LAYOUT:

- a. Exhibit 4 shows the proposed well site layout with dimensions of the pad layout.
- b. Exhibit 5 shows proposed location of reserve and sump pits and living facilities.
- c. Mud pits in the active circulating system will be steel pits and the reserve pits will be lined.
- d. If needed, the reserve pit is to be line with polyethylene. The pit liner will be 12 mils thick. Pit liner will extend a minimum of two feet (2') over the reserve pit's dykes where the liner will be anchored down.
- e. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down after the pit contents have dried. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

10. PLANS FOR SURFACE RECLAMATION:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The reserve pit area will be broken out and leveled after drying to a condition where these are feasible. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography. The pit will be closed per OCD compliance regulations.
- b. The pit lining will be buried or hauled away in order to return the location and road to their pristine nature. All pits will be filled and the location leveled, weather permitting, within 120 days after abandonment.
- c. The location and road will be rehabilitated as recommended by the BLM.
- d. The reserve pit will be fenced on three side throughout drilling operations. After the rotary rig is removed, the reserve pit will be fenced on the fourth side to preclude endangering wildlife. The fencing will be in place until the pit is reclaimed.
- e. If the well is deemed commercially productive, the reserve pit will be restored as described in 10(A) within 120 days subsequent to the completion date. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to

operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.

11. SURFACE OWNERSHIP

The surface ownership is owned by the Crockett Trust. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The proposed road routes and surface location will be restored as directed by the BLM.

As a requirement of the New Mexico Surface Owners Protection Act (NMSOPA), EOG will operate in accordance to the NMSOPA and either enter into a Surface Use Agreement with the fee surface owner or bond on if EOG and fee surface owner fail to enter into a Surface Use Agreement.

Fee Surface Owner:

Crockett Trust Will Crockett 505.703.5970

12. OTHER INFORMATION:

- a. The area surrounding the well is grassland. The topsoil is sandy & rocky in nature. The vegetation is moderately sparse with native prairie grass and yucca cactus. No wildlife was observed but it is likely that deer, rabbits, coyotes, rodents and birds transverse the area.
- b. There are not dwellings within 2 miles of location.
- c. There is no permanent or live water within 1 miles of the location.
- d. A Cutural Resources Examination will be completed by 12/3/2007 and forwarded to the BLM office in Carlsbad, New Mexico.

13. BOND COVERAGE:

a. Bond Coverage is Nationwide; Bond No. NM 2308

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

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OPERATOR CERTIFICATION

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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 <u>/6</u> day of <u>Novumber</u>, 2007.

Name:	Donny G. Glanton						
Position:	Sr. Lease Operations ROW Representative						
Address:	P.O. BOX 2267 Midland, TX 79705						
Telephone	:: 432-686-3642						
•	resentative (if not above signatory):						
Address (i	f different from above):						
•	(if different from above):						
E-mail (optional): donny glanton@eogresources.com							

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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, (575) 361-2822

- 1. Hydrogen Sulfide has been reported from nearby wells, but no measurements have been recorded. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. If Hydrogen Sulfide is encountered, please report measurements to the BLM.
- 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. Floor controls are required for 3M or Greater systems. These 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 in the lower San Andres at approximately 1300 feet and cemented to the surface. Fresh water mud to be used to setting depth of surface casing.
 - 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). Please provide WOC times to inspector for cement slurries.

- 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.

High cave/karst. Possible lost circulation in the Grayburg and San Andres formations.

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. Please provide WOC times to inspector for cement slurries.

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: (575) 706-2779

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WWI 122007