noodd oont								
rishad Cont	rolled Water Basin		10/19/15	CL.	7			
(Continued on	page 2)		KZ		*(Instru	ictions or	page	2)
States any false, fictit	ious or fraudulent statements or representat	ions as to any matter w	ithin its jurisdiction.	withun y to n	nake to any department of	agency of th	e United	
Conditions of approv	val, if any, are attached.	a ita arima faranna	mon knowingly and	APPRO	VAL FOR TW	U YEAH	15	
Application approva conduct operations the	I does not warrant or certify that the applica hereon.	ant holds legal or equit	able title to those rig	ghts in the sub	ject lease which would en	title the appli	cantto	
Andland	FIELD MANAGER			CARLSBAD FIELD OFFICE				
Title	Steve Caffey		Office			LUD		
Approved by (Signatu		Name	(Printed/Typed)		1	Datonct	1.2	2015
litle	incontraction of the second se	-	1			.,		7
25. Signature	= Wa	Name Stan V	(Printed/Typed) Vagner		I	Date 1/21	115	
<ol> <li>Well plat certified</li> <li>A Drilling Plan.</li> <li>A Surface Use Pl SUPO must be fil</li> </ol>	by a registered surveyor. Ian (if the location is on National Forest S led with the appropriate Forest Service Offic	System Lands, the ce).	<ol> <li>Bond to cover Item 20 above)</li> <li>Operator certification</li> <li>Such other site BLM.</li> </ol>	the operation fication e specific info	ns unless covered by an er	xisting bond	on file (s	e
The following, compl	eted in accordance with the requirements of	Onshore Oil and Gas (	Order No.1, must be	attached to th	is form:			
		24. Attac	hments					
3364' GL	w wilding Dr, KDB, KI, UL, etc.)	07/01/201	and unic work will s	tall'	25 days		1	
applied for, on th	is lease, ft. 647' frm 403H	15447' MD	, 10500' TVD	NM 230	23 Estimated duration			
18. Distance from pro	oposed location*	19. Proposed	Depth	20. BLM/I	BIA Bond No. on file			-
<ol> <li>Distance from pr location to neares property or lease (Also to nearest)</li> </ol>	oposed* 240' SL, 77' PP tline, ft. (ine, ft.	16. No. of at 1480.00	res in lease	17. Spacin 160 a	g Unit dedicated to this we ac.	11		
<ol> <li>Distance in miles Approximately</li> </ol>	and direction from nearest town or post offi +/- 27 miles Southwest from Jal, Ne	w Mexico	LOCATIO	N .	Lea	I3. NM	Л	
At proposed pro	d. zone 230' FSL & 2560' FEL, SES	W (N), Sec 14	OKTHOD	N	12 County or David	12	State	
At surface 240	0' FSL & 2530' FEL, SWSE (O), Sec	11, 25S, 33E	CONTROL OF	OV	Section 11, T25S, R	33E		
4. Location of Wel	(Report location clearly and in accordance	with any State requireme	nts.*)		11. Sec., T. R. M. or Blk	and Survey	or Area	_
3a. Address P.O.	Box 2267 Midland, TX 79702	3b. Phone No. 432-686-36	(include area code) 89		10. Field and Pool, or Ex	ploratory	AL	020
2. Name of Operat	tor EOG Resources, Inc (-37	77			9. API Well No. 30-025- 4288	8		
Ib. Type of Well:	✓ Oil Well Gas Well Other	√ Sin	gle Zone 🗌 Mult	iple Zone	8. Lease Name and Wo Vaca 11 Fed 404H	ell No. 4	023	79
la. Type of work:		EENTER			7 If Unit or CA Agreer	nent, Name a	ind No.	
	APPLICATION FOR PERMIT	TO DRILL OR	REENTER	EIVED				
	BUREAU OF LAND	MANAGEMENT	ULIX	BHL	NMNM108503 SH	L NMI	0850	15
	UNITED ST.	ATES	0071	2015	5. Lease Serial No.	ober 31, 2014		_
March 2012)			HOBBS	500	OMB No.	1004-0137		

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### HOBBS OCD

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### EOG RESOURCES, INC. VACA 11 FED NO. 404H

### 1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

RECEIVED

### 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,121'
Top of Salt	1,462'
Base of Salt / Top Anhydrite	4,810'
Base Anhydrite	5,054'
Lamar	5,054'
Bell Canyon	5,082'
Cherry Canyon	6,149'
Brushy Canyon	7,768'
Bone Spring Lime	9,236'
1st Bone Spring Sand	10,179'
2 <sup>nd</sup> Bone Spring Shale	10,400'
TD	10,500'

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

Upper Permian Sands	0-400'	Fresh Water
Cherry Canyon	6,149'	Oil
Brushy Canyon	7,768'	Oil
Bone Spring Lime	9,236'	Oil
1st Bone Spring Sand	10,179'	Oil
2 <sup>nd</sup> Bone Spring Shale	10,400'	Oil

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 13.375" casing at 1,145' and circulating cement back to surface.

### 4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Tension
17.5"	0-1,145	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' - 4,900'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0'-15,447'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

### EOG RESOURCES, INC. VACA 11 FED NO. 404H

### **Cementing Program:**

Depth	No. Sacks	Wt. lb/gal	Yld Ft <sup>3</sup> /ft	Mix Water Gal/sk	Slurry Description
13-3/8" 1,145	600	13.5	1.73	9.13	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ surface)
1200	300	14.8	1.34	6.34	Tail: Class C + 0.005 pps Static Free + 2% CaCl <sub>2</sub> + 0.25 pps CelloFlake + 0.005 gps FP-6L
9-5/8" 4,900'	900	12.7	2.22	12.38	Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ surface)
and show the	450	14.8	1.32	6.33	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
5-1/2" 15,447'	400	10.8	3.67	21.7	Lead: 60:40:0 Class 'C' + 15.00 lb/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA- 301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free (TOC @ 4400')
	400	11.8	2.38	13.25	Middle: 50:50:10 Class 'H' + 0.80% FL-52 + 0.45% ASA-301 + 0.40% SMS + 2.00% Salt + 3.00 lb/sx LCM-1 + 0.20% R-21 + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
	1600	14.2	1.28	5.75	Tail: 50:50:2 Class 'H' + 0.65% FL-52 + 0.20% CD-32 + 0.15% SMS + 2.00% Salt + 0.10% R-3 + 0.005 lb/sk Static Free

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.



### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

3000 psi BOPE is adequate for this application. Due to the 3000 psi BOPE requirement no FIT tests are planned.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 2000/250 psig and the annular preventer to 2000/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

### EOG RESOURCES, INC. VACA 11 FED NO. 404H

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000/250 psig and the annular preventer to 3000/250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

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.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

### 6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0-1,145' 1200	Fresh Water Gel	8.6-8.8	28-34	N/c
1,145' - 4,900'	Saturated Brine	10.0-10.2	28-34	N/c
4,900' - 9,929'	Fresh Water	8.4-8.6	28-34	N/c
9,929'- 15,447' Lateral	Cut Brine Water	9.0-9.5	28-34	N/c

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

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.
- (C) H<sub>2</sub>S monitoring and detection equipment will be utilized from surface casing point to TD.

### EOG RESOURCES, INC. VACA 11 FED NO. 404H

### 8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR-CCL Will be run in cased hole during completions phase of operations.

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

The estimated bottom-hole temperature (BHT) at TD is 163 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4546 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 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.







# EOG Resources - Midland

Lea County, NM (NAD 27 NME) Vaca 11 Fed #404H OH

Plan: Plan #1

# EOG PVA

08 December, 2014

EOG Resources, Inc. EOG PVA

eogre	sources				
Company: EO Project: Lea Site: Vac Well: #40 Wellbore: 0H	G Resources - Midland County, NM (NAD 27 NME) a 11 Fed 4H		Local Co-ordinate F TVD Reference: MD Reference: North Reference: Survey Calculation Database:	Reference:     Well #404H       KB = 30 @ 3394.0usft (Cactus 12       KB = 30 @ 3394.0usft (Cactus 12       KB = 30 @ 3394.0usft (Cactus 12       Grid       Method:     Minimum Curvature       EDM 5000.1 Single User Db	ନ୍ଥ ନ
Project Map System: Geo Datum: Map Zone:	Lea County, NM (NAD 27 NME) US State Plane 1927 (Exact solution) VAD 1927 (NADCON CONUS) Vew Mexico East 3001		System Datum:	Mean Sea Level	
Site	Vaca 11 Fed				
Site Position: From: Position Uncertainty:	Map 0.0 usft	Northing: Easting: Slot Radius:	414,888.00 usft 746,178.00 usft 13-3/16 *	Latitude: Longitude: Grid Convergence:	32° 8' 17,322 N 103° 32' 16.849 W 0.42 °
Well	#404H				
Well Position	+N/-S 0.0 usft +E/-W 0.0 usft	Northing: Easting:	414,946.00 usft 744,847.00 usft	Latitude: Longitude:	32° 8' 17.993 N 103° 32' 32.323 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,364.0 usft
Wellbore	Ю				
Magnetics	Model Name Sample Date	Declination (°)	Dip Angle Field Str (nT	ength )	
	IGRF201014 12/8/201	7.14	60.02	48,220	
Design	Plan #1				
Audit Notes:	Phase.	PI AN	Denth: 0.0		
Vertical Section:	Depth From (TVD) (usft)	+N/-S +E/-W (usft) (usft)	Direction (*)		
	0.0	0.0	181.67		
Survey Tool Program	Date 12/8/2014				
From (usft)	To (usft) Survey (Wellbore)	Tool Name	Description		
0.0	15,447.1 Plan #1 (OH)	DWM	MWD - Standard		

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EOG Resources, Inc. EOG PVA

ell: hilbore: sian:	Vaca 11 rex #404H OH Plan #1							M N S	D Reference: orth Reference irvey Calculati tabase:	: on Method:	KB = 30 ( Grid Minimum EDM 500	© 3394.0usft (Cactus 123) Curvature 0.1 Sindle User Db	
anned Survey					Mic		Enw	2		and a		Link to Dian	Dické to Dic
(tjsti)	£ €	(grid_no	uzi brth_azim	(usft)	(usft)		(usft)	(*/10	Leg lousft)	("/100usft)	(°/100usft	t) High to Plan (usft)	Kight to Pla (usft)
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20	0.00	0.00	0.00	200.0		0.0	5	0.0	0.00	0.00		0.00	
30	0,00	0.00	0,00	300.0		0.0	5	0.0	00.00	0.00		0.00	
40	0.00	0.00	00.0	400.0		0.0	5	0.0	0.00	0.00		0.00	
50	0.00	00.00	00.00	500.0		0.0	9	0.0	00.00	0.00		0.00	
60	0.00	0.00	0.00	600.0		0.0	9	0.0	00.00	0.00		0.00	
76	0.00	0.00	0.00	700.0		0.0	3	0.0	00'0	0.00		0.00	
80	0.00	0.00	0.00	800.0		0.0	5	0.0	00.0	0.00		0.00	
96	0.00	0.00	0.00	0.009		0.0	5	0.0	00.0	0.00		0.00	
1,00	0.00	0.00	00.00	1,000.0		0.0	3	0.0	0.00	0.00		0.00	
1,10	0.00	0.00	0.00	1,100.0		0.0	3	0.0	0.00	0.00		0.00	
1,20	0.00	0.00	0.00	1,200.0		0.0	3	0.0	00'0	0.00		0.00	
1,30	0.00	0.00	0.00	1,300.0		0.0	5	0,0	00'0	0.00		0.00	
1,40	0.00	0.00	00.00	1,400.0		0.0	3	0.0	0.00	0.00		0.00	
1,50	0.00	0.00	00.00	1,500.0		0.0	0	0.0	0.00	0.00		0.00	
1,60	0.00	0.00	00.00	1,600.0		0.0	3	0.0	00'0	0.00		0.00	
1,76	0.00	0.00	0.00	1,700.0		0.0	0	0.0	00'0	0.00		0.00	
1,80	0.00	0.00	0.00	1,800.0		0.0	3	0.0	00'0	0.00		0.00	
1,90	0.00	0.00	0.00	1,900.0		0.0	5	0.0	0.00	0.00		0.00	
2,00	0.00	0.00	00.00	2,000.0		0.0	0	0.0	0.00	0.00		0.00	
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2,20	0.00	0.00	00.00	2,200.0		0.0	3	0.0	0.00	0.00		0.00	
2,30	0.00	0,00	0.00	2,300.0		0.0	0	0.0	0.00	0.00		0.00	
2,40	0.0	0.00	0.00	2,400.0		0.0	5	0.0	0.00	0.00		0.00	
2,50	0.0	0.00	00.00	2,500.0		0.0	0	0.0	0.00	00.00		0.00	
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nned Survey											
MD MD	1C foot	Azi	TVD	N/S	EW	1 Inter	)Leg	Build	Turn	High to Plan	Right to Plan
2.700.0	0.00	0.00	2,700.0	0.0	(tien)	0.0	0.00	0.00	0.00	frient	frient
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2,900.0	00.00	0.00	2,900.0	0.0		0.0	0.00	0.00	0.00		
3,000.0	0.00	0.00	3,000.0	0.0		0.0	0.00	0.00	0.00		
3,100.0	0.00	0.00	3,100.0	0.0		0.0	0.00	0.00	0.00		
3,200.0	00.00	00'0	3,200.0	0.0		0.0	0.00	0,00	0.00		
3,300.0	00.00	0.00	3,300.0	0.0		0.0	0.00	00'0	00.00		
3,400.0	0.00	0.00	3,400.0	0.0		0.0	0.00	0.00	0.00		
3,500.0	0.00	0.00	3,500.0	0.0		0.0	0.00	00.00	00'0		
3,600.0	0.00	0.00	3,600.0	0.0		0.0	0.00	0.00	0.00		
3,700.0	00.00	0.00	3,700.0	0.0		0.0	0.00	00.00	0.00		
3,800.0	00.00	0.00	3,800.0	0.0		0.0	0.00	00.00	00.00		
3,900.0	0.00	00.00	3,900.0	0.0		0.0	0.00	0.00	0.00		
4,000.0	0.00	00.00	4,000.0	0.0		0.0	00.00	0.00	00.00		
4,100.0	00.00	0.00	4,100.0	0.0		0.0	0.00	0.00	0.00		
4,200.0	00.00	0.00	4,200.0	0.0		0.0	0.00	0.00	0.00		
4,300.0	00.00	0.00	4,300.0	0.0		0.0	0.00	0.00	0.00		
4,400.0	0.00	0.00	4,400.0	0.0		0.0	0.00	0.00	0.00		
4,500.0	0.00	0.00	4,500.0	0.0		0.0	0.00	0.00	0.00		
4,600.0	1.00	270.71	4,600.0	0.0	r	6.0	1.00	1.00	00'0		
4,680.1	1.80	270.71	4,680.1	0.0	r	2.8	1.00	1.00	0.00		
4,700.0	1.80	270.71	4,700.0	0.0	1	3.5	0.00	00.00	0.00		
4,800.0	1.80	270.71	4,799.9	0.1	1	6.6	0.00	0.00	0.00		
4,900.0	1.80	270.71	4,899.9	0.1	1	9.7	00.0	0.00	0.00		
5,000.0	1.80	270.71	4,999.8	0.2	1-	2.9	0.00	00.00	0,00		
5,100.0	1.80	270.71	5,099.8	0.2	÷.	6.0	0.00	00.00	0.00		
5.200.0	1.80	270.71	5,199.7	0.2	5	9.2	0.00	00.00	0.00		

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eog	resour	ces.				EOG PVA				4		
Company: Project: Site: Well: Wellbore: Design:	EOG Resourc Lea County, N Vaca 11 Fed #404H OH Plan #1	es - Midland IM (NAD 27 N	IME)				Local C TVD Re MD Rel North F Survey Databa	Co-ordinate eference: ference: Reference: Calculation se:	Reference: Method:	Well #404H KB = 30 @ 3394.0usft ( KB = 30 @ 3394.0usft ( Grid Minimum Curvature EDM 5000.1 Single Use	(Cactus 123) (Cactus 123) er Db	
Planned Survey												
QW	Inc		Azi	DAT	N/S	EW	DLeg		Build	Turn High	h to Plan	Right to Plan
(usft)	(.)	(grid	north_azim	(1Jsn)	(tjsn)	(tjsn)	(°/100ust	(1)	(1100usft)	(1100usft)	(usft)	(Itsu)
5,30	0.0	1.80	270.71	5,299.7	0	-22	3	0.00	0.00	0.00		
5,40	0.0	1.80	270.71	5,399.6	0	.3 -25	.5	0.00	0.00	00.00		
5,50	0.0	1.80	270.71	5,499.6	0	-28	1.6	0.00	0.00	0.00		
5,60	0.0	1.80	270.71	5,599,5	0	.4 -31	7	0.00	0.00	0.00		
5,70	0.0	1.80	270.71	5,699.5	0	.4 -34	6.	0.00	0.00	0.00		
5,80	0.0	1.80	270.71	5,799.4	0	.5 -36	0.	00.0	0.00	0.00		
5,90	0.0	1.80	270.71	5,899.4	0	.5 .41	.2	00.00	0.00	0.00		
6,00	0.0	1.80	270.71	5,999.3	0	.5	6.	0.00	0.00	0.00		
6,10	0.0	1.80	270.71	6,099,3	0	.6 -47	.5	0.00	0.00	0.00		
6,20	0.0	1.80	270.71	6,199.2	Ó	.6 -50	.6	0.00	0.00	0.00		
6,30	0.0	1.80	270.71	6,299.2	0	.7 -53	17	00.00	0.00	0.00		
6,40	0.0	1.80	270.71	6,399.1	0	.7 -56	6	0.00	0.00	0.00		
6,50	0.0	1.80	270.71	6,499.1	0	.7 -60	0.	0.00	0.00	0.00		
6,601	0.0	1.80	270.71	6,599.0	0	-63	.2	0.00	0.00	0.00		
6,70	0.0	1.80	270.71	6,699.0	0	.8 -66	.3	0.00	0.00	0.00		
6,80	0.0	1.80	270.71	6,798.9	0	-65	.5	00.00	0.00	0.00		
6,90	0.0	1.80	270.71	6,898,9	0	.9 -72	9.	00.00	0.00	0.00		
7,001	0.0	1.80	270.71	6,998,8	Ö	-75	17	0.00	0.00	0.00		
7,10	0.0	1.80	270.71	7,098.8	1	.0	6.	0.00	00.00	0.00		
7,20	0.0	1.80	270.71	7,198.7	+	.0	0	0.00	0.00	0.00		
7,30	0.0	1.80	270.71	7,298.7	-	.0 -85	.2	0.00	0.00	0.00		
7,40(	0.0	1.80	270.71	7,398,6	1.	.1 -88	.3	0.00	0.00	0.00		
7,500	0.0	1.80	270.71	7,498.6	1,	.1 -91	.5	0.00	00'0	0.00		
7,601	0.0	1.80	270.71	7,598.5	1.	-94	.6	0.00	0.00	0.00		
7,70	0.0	1.80	270.71	7,698.5	1	.2 -97	Ľ	0.00	0.00	0.00		
7,80	0.0	1.80	270.71	7,798.4	1	-100	6	0.00	0.00	0.00		
7,90	0.0	1.80	270.71	7,898.4	1	.3 -104	0.	0.00	0.00	0.00		

COMPASS 5000.1 Build 72

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, Inc.	
EOG Resources	EOG PVA

Constant Press	-								TAL-IL ILAN ALL		
Company: Project: Site: Vell: Vellbore: Design:	EOG Resource: Lea County, NN /aca 11 Fed #104H DH Plan #1	i (NAD 27 NME	ũ				Local Co-ordinate Re TVD Reference: MD Reference: North Reference: Survey Calculation M Database:	ference: lethod:	Well #404H KB = 30 @ 3394, KB = 30 @ 3394, Grid Minimum Curvatu EDM 5000.1 Sing	Ousft (Cactus 123) Ousft (Cactus 123) ure gle User Db	
Planned Survey MD	inc.	louid m	real and	DVT Meteri	N/S Month	E.W	bla) (Hannorha)	Build	Turn	High to Plan (useft)	Right to Plan (usft)
8.000.6	11	1.80	270.71	7.998.3	1.	-107.2	0.00	0.00	0.00	front	
8,100.0		1.80	270.71	8,098.3	4	-110.3	0,00	0.00	0.00		
8,200.0		1.80	270.71	8,198.2	1.	-113.5	0.00	0.00	0.00		
8,300.0		1.80	270.71	8,298.2	1.	-116.6	0.00	0.00	00.00		
8,400.0		1.80	270.71	8,398.1	1.1	-119.8	0.00	0.00	0.00		
8,500.0		1.80	270.71	8,498.1	1.1	-122.9	0.00	0.00	0.00		
8,600.0		1.80	270.71	8,598.0	1.1	-126.0	0.00	0.00	0.00		
8,700.0		1.80	270.71	8,698.0	1.1	-129.2	0.00	0.00	0.00		
8,800.0		1.80	270.71	8,797.9	1.	-132.3	0.00	0.00	0.00		
8,900.0		1.80	270.71	8,897.9	1.1	-135,5	0,00	0.00	0.00		
9,000,6		1.80	270.71	8,997.8	1.1	-138.6	0.00	0.00	0.00		
9,100.0		1.80	270.71	9,097.8	1.1	-141.8	0.00	0.00	0.00		
9,200.0		1.80	270.71	9,197.7	1.1	-144.9	0.00	0.00	0.00		
9,300.0		1.80	270.71	9,297.7	1.1	-148.0	0.00	0.00	0.00		
9,400.0		1.80	270.71	9,397.6	1.1	-151.2	0.00	0.00	0.00		
9,500.0		1.80	270.71	9,497.6	1.1	-154.3	0.00	0.00	0.00		
9,600.0		1.80	270.71	9,597.5	1.1	-157.5	0.00	0.00	0.00	*.	
9,700.0		1.80	270.71	9,697.5	2.(	-160.6	0.00	0.00	0.00		
9,800.0		1.80	270.71	9,797.4	2.(	-163.8	0.00	0.00	0.00	-	
9,900.0		1.80	270.71	9,897.4	2	-166.9	0.00	0.00	0.00		
9,929.6		1.80	270.71	9,927.0	5	-167.8	0.00	0.00	0.00		
9,950.0		2.69	221.53	9,947.4	1.1	-168.5	10.00	4.38	-241.14		
10,000.0		7.23	193.96	9,997.2	-2.	-170.0	10,00	9.07	-55.13		
10,050.0		12.14	188.02	10,046.4	-10.1	-171.5	10.00	9.81	-11.88		
10,100.0		17.10	185.48	10,094.8	-23.(	-172.9	10.00	9.92	-5.08		
10,150.0		22.08	184.06	10,141.9	-39.	-174.3	10.00	9.96	-2.84		
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COMPASS 5000.1 Build 72

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Res	EO
EOG	

			Local Co-ordinal TVD Reference: MD Reference: North Reference Survey Calculati Database:	te Reference: : on Method:	Vell #404H KB = 30 @ 3394.0usft (Cactus 123) KB = 30 @ 3394.0usft (Cactus 123) Grid Minimum Curvature EDM 5000.1 Single User Db
9	SIN	EW	DLeg	Build	Turn High to Plan
1 I	0.230.8	85.1 -176.8	10.00	(7700057) 9.98	(77100USit) (USIt)
-	0,272.0	13.4 -177.9	10.00	9.98	-0.98
-	0,310.6	45.2 -178.9	10.00	9.99	-0.78
***	0,346.2 -1	80.3 -179.8	10.00	6.69	-0.64
10	,378.6	-180.6	10.00	9,99	-0.54
10	,407.6	59.0 -181.2	10.00	9,99	-0.47
10	433.0	02.0 -181.7	10.00	9.99	-0.42
10,4	154.5	47.2 -182.1	10.00	9.99	-0.39
10,4	72.0	94.0 -182.3	10.00	9.99	-0.36
10,4	85.3	42.2 -182.4	10.00	9,99	-0.34
10,4	94.4	91.3 -182.4	10.00	9.99	-0.33
10,45	9.2	41.1 -182.2	10.00	10.00	-0.32
10,50		71.0 -182.0	10.00	10.00	-0.31
10,50	0.0 -E	41.0 -181.5	0.00	00.00	0.00
10,50		41.0 -180.9	0,00	0.00	0.00
10,50	-5	41.0 -180.2	0.00	0.00	0.00
10,5	3- 00.00	41.0 -179.5	0.00	0.00	0.00
10,5	00.0 -1,0	41.0 -178.8	0.00	0.00	0.00
10,5	00.0	41.0 -178.2	0.00	0.00	0.00
10,5	-1,2	41.0 -177.5	0.00	0.00	0.00
10,5(	00.0	41.0 -176.8	0.00	0.00	0.00
10,5	-1,4	41.0 -176.2	0.00	0.00	0.00
10,5	-1,5	41.0 -175.5	0.00	0.00	0.00
10,5	00.0 -1,6	41.0 -174.8	0,00	0.00	0.00
10,	510 0 11 -1 7	41.0 -174.1	0.00	0.00	0.00
ř	**** *********************************				

COMPASS 5000.1 Build 72

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Inc.	-
EOG Resources,	EOG PVA

IG Resources - Midland a County, NM (NAD 27 ca 11 Fed 04H i 1 an #1 en #						Partanana	Well #404H		
Inc (*) 90.00	NME)				Local Co-ordinat TVD Reference: MD Reference: North Reference: Survey Calculatic Database:	e Kererence. on Method:	KB = 30 @ 339 KB = 30 @ 339 Grid Minimum Curva EDM 5000.1 Si	4.0usft (Cactus 123) 4.0usft (Cactus 123) ture ngle User Db	
(°) 90.00 90.00		UNT	SIN	EW	Di en	Build	Ę	High to Plan	Right to Plan
90.00	id_north_azim	(usft)	(itsti)	(usft)	(1100usft)	(1100usft)	(*/100usft)	(tjsn)	(tisti)
00.00	179.62	10,500.0	-1,941.0	-172.8	0.00	0.00	0.00		
	179.62	10,500.0	-2,041.0	-172.1	0.00	0.00	0.00		
90.00	179.62	10,500.0	-2,141.0	-171.5	0.00	00.00	0.00		
90.00	179.62	10,500.0	-2,241.0	-170.8	0.00	0,00	0.00		
90.00	179.62	10,500.0	-2,341.0	-170.1	0.00	0.00	0.00		
90.00	179.62	10,500.0	-2,441.0	-169.4	0.00	00.00	0.00		
90.00	179.62	10,500.0	-2,541.0	-168.8	0.00	0.00	0.00		
90,00	179.62	10,500.0	-2,641.0	-168.1	0.00	0.00	0.00		
90.00	179.62	10,500.0	-2,741.0	-167.4	0.00	0.00	0.00		
90.00	179.62	10,500.0	-2,841.0	-166.8	0.00	00'0	0.00		
90.00	179.62	10,500.0	-2,941.0	-166.1	0.00	0.00	0.00		
90.00	179.62	10,500.0	-3,041.0	-165.4	0.00	0.00	0.00		
90.00	179.62	10,500.0	-3,141.0	-164.7	0.00	00.00	0.00		
90.00	179.62	10,500.0	-3,241.0	-164.1	0.00	0.00	0,00		
90.00	179.62	10,500.0	-3,341.0	-163.4	0.00	0.00	0.00		
90.00	179.62	10,500.0	-3,441.0	-162.7	0.00	0.00	0.00		
90.00	179.62	10,500.0	-3,541.0	-162.1	0.00	0.00	0.00		
90.00	179.62	10,500.0	-3,641.0	-161.4	00.00	0.00	0.00		
90.00	179.62	10,500.0	-3,741.0	-160.7	00.00	0.00	0.00		
90.00	179.62	10,500.0	-3,841.0	-160.0	00.00	00.00	0.00		
90.00	179.62	10,500.0	-3,941.0	-159.4	0.00	00.00	0.00		
90.00	179.62	10,500.0	-4,041.0	-158.7	0.00	00.00	0.00		
90.00	179.62	10,500.0	4,141.0	-158.0	0.00	00.00	0.00		
90.00	179.62	10,500.0	-4,241.0	-157.4	0.00	0.00	0.00		
90'06	179.62	10,500.0	-4,341.0	-156.7	00.00	0.00	0.00		
80.00	179.62	10,500.0	-4,441.0	-156.0	0.00	00.00	0.00		
80.00	179.62	10,500.0	-4,541.0	-155.3	0.00	0.00	0.00		

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l	0	0

EOG Resources, Inc. EOG PVA

OG Resources - Midland ea County, NM (NAD 27 N 404H H In #1	IME)				Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculat Database:	te Reference: : on Method:	Well #404H KB = 30 @ 3394. KB = 30 @ 3394. Grid Minimum Curvatu EDM 5000.1 Sing	ousft (Cactus 123) ousft (Cactus 123) ure gle User Db	
Inc (°) (grid	Azi north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build (*/100usft)	Turn (*/100usft)	High to Plan (usft)	Right to Plan (usft)
90.00	179.62	10,500.0	-4,641.0	-154.7	0.00	00'0	0.00		
90.00	179.62	10,500.0	-4,741.0	-154.0	0.00	00.00	0.00		
90.00	179.62	10,500.0	-4,841.0	-153.3	0.00	00.00	0.00		
90.00	179.62	10,500.0	-4,941.0	-152.7	0.00	0.00	0.00		
90.00	179.62	10,500.0	-5,041.0	-152.0	0.00	0.00	0.00		
90.00	179.62	10,500.0	-5,140.9	-151.3	00.00	00.00	0.00		
90.00	179.62	10,500.0	-5,188.0	-151.0	0.00	0.00	0.00		
11 Fed #404H)									
			100 C 100 C						
			Approved By:				Date:		
	CIGG Resources - Midland .ea County, NM (NAD 27 N Aca 11 Fed 1404H DH Plan #1 90.0000 90.00000 90.00000 90.00000 90.0000000 90.000000 90.0000000000	COG Resources - Midland Lea County, NM (NAD 27 NME) Aca 11 Fed H04H DH Plan #1 (°) (grid_north_azim 90.00 179.62 90.00 179.62 90.00 179.62 90.00 179.62 90.00 179.62 90.00 179.62 90.00 179.62 179.62 90.00 179.62 90.00 179.62	CIG Resources - Midland ea County, NM (NAD 27 NME) Acca 11 Fed Acca 11 Fed Ian #1 DH <b>Inc</b> (*) (grid_north_azim (****) 90.00 90.00 90.00 90.00 179.62 10,500.0 90.00 179.62 10,500.0 90.00 179.62 10,500.0 10,500.0 179.62 10,500.0 179.62 10,500.0 179.62 10,500.0 179.62 10,500.0 10,500.0 179.62 10,500.0 10,500.0 10,500.0 10,500.0 179.62 10,500.0 10,500.0 179.62 10,500.0 10,500.0 10,500.0 179.62 10,500.0	CIG Resources - Midland ea County, NM (NAD 27 NME) Acca 11 Fed Acca 11 Fed Acca 11 Fed Acta 1 Fed A	CG Resources - Midland ea County, NM (NAD 27 NME) Ascan 11 Fed Ascan	CIG Resources - Midland ea County, NM (NAD 27 NME) Aca 11 Fed Aca 11 Fed A	COG Resources - Midland as County, NM (NAD 27 NME)       Asa 11 Fed Asa 11 Fed As	COG Resources - Midland as County, MI (NAD 27 NME)     Codel Co-ordinate Reference:     Well #404H       as County, MI (NAD 27 NME)     Main Reference:     Not Reference:     Not Reference:       Asea 11 Fed About     Main Reference:     Not Reference:     Not Reference:     Not Reference:       Asea 11 Fed About     Main     Not Reference:     Not Reference:     Not Reference:     Not Reference:       Asea 11 Fed About     Main     Not Reference:     Not Reference:     Not Reference:     Not Reference:       Asea 11 Fed About     Main     Not Reference:     Not Reference:     Not Reference:     Not Reference:       Asea 11 Fed     Main     Not Reference:     Not Reference:     Not Reference:     Not Reference:       Asea 11 Fed     Main     Not Reference:     Not Reference:     Not Reference:     Not Reference:       Asea 11 Fed     Main     Not Reference:     Not Reference:     Not Reference:     Not Reference:       Asea 11 Fed     Main     Not Reference:     Not Reference:     Not Reference:     Not Reference:       Bare 20     Status     Not Reference:     Not Reference:     Not Reference:     Not Reference:       Bare 20     Status     Not Reference:     Not Reference:     Not Reference:     Not Reference:       Bare 20     Status	COC Resources - Midland as County, NN (NAD 27 NME)         Cocal Co-ordinate Reference: TVD Reference:         Well #404H           Accumy, NN (NAD 27 NME)         TVD Reference: Non Reference:         Non Reference: Non

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# Exhibit 1a



Manufacturer: Midwest Hose & Specialty

Serial Number: SN#90067

Length: 35'

Size: OD = 8" ID = 4"

Ends: Flanges Size: 4-1/16\*

WP Rating: 10,000 psi Anchors required by manfacturer: No

# MIDWEST

## HOSE AND SPECIALTY INC.

Customer:			P.O. Numb	er:	12
CACTUS			RIG #123	3	199
	10	Date of the	Asset # M	11076	1
	HOSE SPECI	ICATIONS			
Type: CHOKE LI	NE		Length:	35	
I.D. 4	" INCHES	O.D.	8"	IN	CHES
WORKING PRESSURE	TEST PRESSUR	E	BURST PRES	SURE	
10,000 PSI	15,000	PSI			PSI
	COUP	LINGS			
Type of End Fitting 4 1/16 10K	FLANGE				
Type of Coupling: SWEDGE	)	MANUFACTI MIDWEST HO	URED BY SE & SPECIA	ALTY	
2	PROC	EDURE			
Hose assem	bly pressure tested w	ith water at emble	int temperature		
TIME HELD	ACTUAL	ACTUAL BURST PRESSURE:			
	1 <i>MIN</i> .			0	PSI
COMMENTS: SN#90067 Hose is co wraped wi insulation	M10761 overed with stain th fire resistant v rated for 1500 de	ess steel armo ermiculite coa grees comple	our cover and ted fibergias te with lifting	i s j eyes	1.01
Date:	Tested By:		Approved:		

N

Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Graph

SALES ORDER# 90067 Customer: CACTUS

fication	Coupling Method	Dirai O D	6.68"	Hose Assembly Serial #
Veri	Type of Fitting	VOT OT /T 4	6.67"	Hose Serial #
cifications	Length	00	<u>1111</u>	Burst Pressure
Hose Spec	Hose Type		4" A"	orking Pressure



Comments: Hose assembly pressure tested with water at ambient temperature.

Ford

Tested By: Bobby Fink

Approved By: Mendi Jackson

Mendi Jackson

And the state for

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HOBBS OCD

OCT 1 9 2015

RECEIVED



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Exhibit 4



December 10, 2014

EOG Resources, Inc. 4000 North Big Spring, Suite 500 Midland, TX 79705 (915) 686-3600

Bureau of Land Management Carlsbad Field Office 620 E. Greene Carlsbad, New Mexico 88220

Vaca 11 Fed 404H

This application is being submitted with the understanding that the location is Non-Standard and will require an NSL order from the New Mexico Oil Conservation Division before being allowed to produce hydrocarbons.

EOG Resources will apply for the necessary order concurrently with this application.

If additional information is needed, please contact me at 432-686-3689.

Sincerely,

EOG RESOURCES, INC.

Stan Way

Stan Wagner Regulatory Specialist