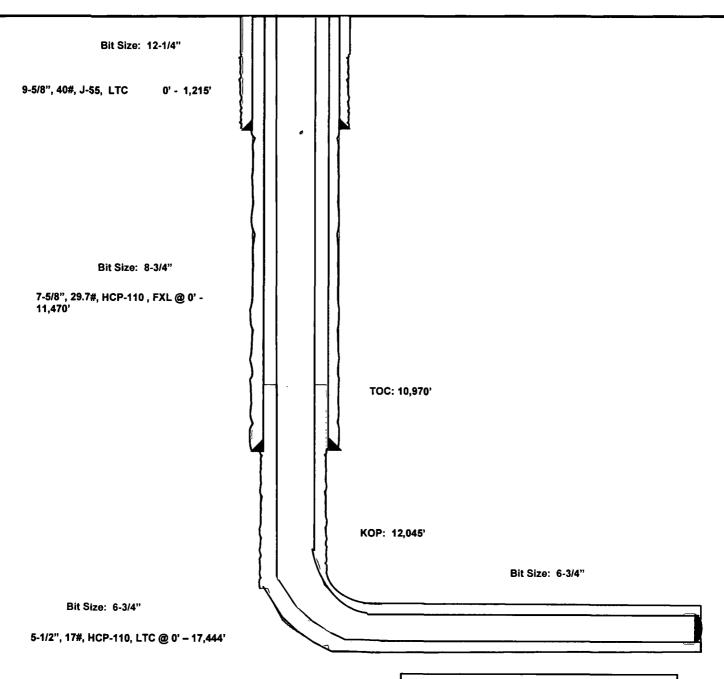
355' FNL 1680' FEL Section 2 T-25-S, R-33-E

Durango 2 State #706H Lea County, New Mexico KB: 3,522' GL: 3,497'

Proposed Wellbore Design A

API: 30-025-****



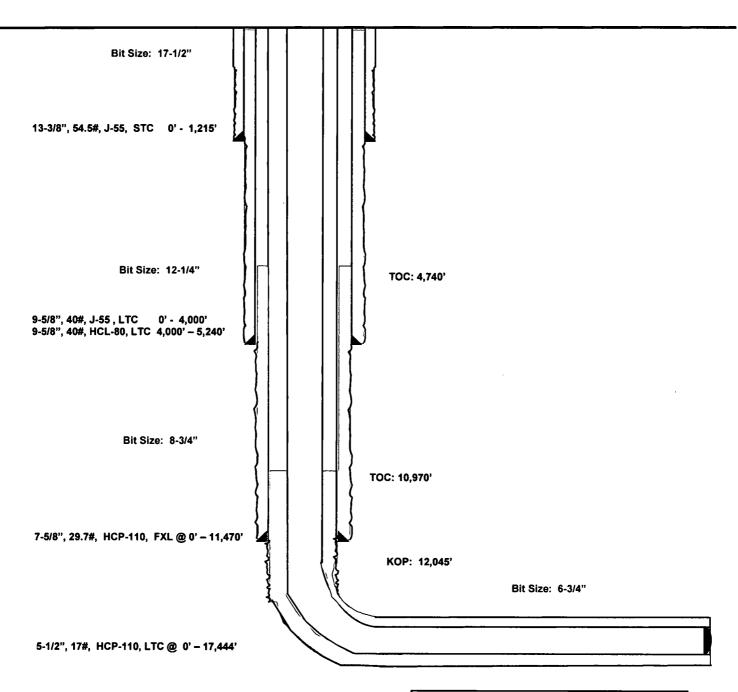
Lateral: 17,444' MD, 12,515' TVD BH Location: 100' FSL & 1637' FEL Section 2 T-25-S, R-33-E 355' FNL 1680' FEL Section 2 T-25-S, R-33-E

EOG RESOURCES, INC. DURANGO 2 STATE #706H

KB: 3,522' GL: 3,497'

Proposed Wellbore Design B

API: 30-025-****



Lateral: 17,444' MD, 12,515' TVD BH Location: 100' FSL & 1637' FEL Section 2 T-25-S, R-33-E

Permit Information:

Well Name: Durango 2 State #706H

Location:

SHL: 355' FNL & 1680' FEL, Section 2, T-25-S, R-33-E, Lea Co., N.M. BHL: 100' FSL & 1637' FEL, Section 2, T-25-S, R-33-E, Lea Co., N.M.

Design A

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0 – 1,215'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' - 11,470'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0'-17,444'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt.	Yld Ft³/sk	Slurry Description
1,215'	400	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,470'	600	14.2	1.11	1st Stage (Tail): Class C + 5% Salt + (TOC @ 7,800')
	1,000	12.7	2.30	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
17,444'	800	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,970')

Mud Program:

Depth	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 1,215'	Fresh - Gel	8.6-8.8	28-34	N/c
1,215' – 11,470'	Brine	8.8-10.0	28-34	N/c
11,470' – 12,045'	Oil Base	10.0-11.5	58-68	3 - 6
12,045' – 17,444'	Oil Base	10.0-11.5	58-68	3 - 6
Lateral				

Design B

Casing Program:

Hole		Csg				DF _{min}	DF _{min}	DF _{min}
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
17.5"	0 – 1,215'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000' - 5,240'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0 – 11,470'	7.625"	29.7#	HCP-110	FXL	1,125	1.25	1.60
6.75"	0'-17,444'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

	No.	Wt.	Yld	
Depth	Sacks	lb/gal	Ft ³ /sk	Slurry Description
1,215'	697	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl2
				(TOC @ Surface)
	333	14.8	1.35	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2%
				Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
5,240'	692	12.7	2.22	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 +
				0.75% C-41P (TOC @ Surface)
	303	14.8	1.32	Tail: Class C + 0.13% C-20
11,470'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 +
				0.20% D167 (TOC @ 4,740')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167
				+ 0.02% D208 + 0.15% D800
17,444'	950	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 +
				0.40% C-17 (TOC @ 10,970')

As a contingency, EOG requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,785") and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,215'	Fresh - Gel	8.6-8.8	28-34	N/c
1,215' – 5,240'	Brine	10.0-10.2	28-34	N/c
5,240'-11,470'	Oil Base	8.7-9.4	58-68	N/c - 6
11,470'- 17,444'	Oil Base	10.0-11.5	58-68	3 - 6
Lateral				

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
 - Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
 - Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher
- H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

■ Mud program:

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

■ Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

■ Communication:

Communication will be via cell phones and land lines where available.

Emergency Assistance Telephone List

PUBLIC SAFETY:		911 or
Lea County Sheriff's Department		(575) 396-3611
Rod Coffman		,
Fire Department:		
Carlsbad		(575) 885-3125
Artesia		(575) 746-5050
Hospitals:		` ,
Carlsbad		(575) 887-4121
Artesia		(575) 748-3333
Hobbs		(575) 392-1979
Dept. of Public Safety/Carlsbad		(575) 748-9718
Highway Department		(575) 885-3281
New Mexico Oil Conservation		(575) 476-3440
U.S. Dept. of Labor		(575) 887-1174
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EOG Resources, Inc.		
·	Office	(432) 686-3600
2007 Middiana	011.00	(132) 000 3000
Company Drilling Consultants:		
	Cell	(985) 518-5839
· · · · · · · · · · · · · · · · · · ·	Cell	(817) 980-5507
· · · · · · · · · · · · · · · · · · ·	Con	(017) 700 3307
Drilling Engineer		
	Office	(432) 686-3609
	Cell	(432) 894-1256
Drilling Manager		(102) 63 1 1266
	Office	(432) 686-3751
	Cell	(817) 480-1167
Drilling Superintendent	••••	(017) 100 1107
	Office	(432) 686-3702
	Cell	(432) 215-9452
H&P Drilling	COII	(132) 213) 132
	Office	(432) 563-5757
		(903) 509-7131
11321 00 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8	(500)005 7.21
Tool Pusher:		
	Cell	(817) 760-6374
Brad Garrett	CUII	(017) 700 0571
Dina Smilett		
Safety		
	Office	(432) 686-3695
· · · · · · · · · · · · · · · · · · ·	Cell	(817) 239-0251
	CCII	(01/) 237-0231