

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address EOG RESOURCES INC PO BOX 2267 MIDLAND, TX 79702		2. OGRID Number 7377
		3. API Number 30-015-34476
4. Property Code 35304	5. Property Name SAN SABA A 12 FEE	6. Well No. 001H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Ekn	Feet From	N/S Line	Feet From	E/W Line	County
A	12	16S	24E	A	760	N	660	E	EDDY

8. Pool Information

COTTONWOOD CREEK, WC, WEST (GAS)	75260
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Additional Well Information

9. Work Type New Well	10. Well Type GAS	11. Cable/ Rotary	12. Lease Type Private	13. Ground Level Elevation 3543
14. Multiple N	15. Proposed Depth 5100	16. Formation Wolfcamp	17. Contractor	18. Spud Date
Depth to Ground water 100		Distance from nearest fresh water well > 1000		Distance to nearest surface water 525
Pit: Liner: Synthetic ☒ 12 mils thick Clay: ☐ Pit Volume: 10300 bbls Drilling Method: Closed Loop System ☐ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☒ Gas/Air ☐				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	9.875	7	26	900	500	0
Prod	6.125	4.5	11.6	8394	750	0

Casing/Cement Program: Additional Comments

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Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCB guidelines ☒ a general permit ☐ , or an (attached) alternative OCB-approved plan ☐ .		OIL CONSERVATION DIVISION	
		Approved By: Bryan Arrant	
Printed Name: Electronically filed by Mike Francis		Title: Geologist	
Title: ROW Agent		Approved Date: 12/16/2005	Expiration Date: 12/16/2006
Email Address: mike_francis@eogresources.com			
Date: 12/16/2005	Phone: 4326863714	Conditions of Approval Attached	

1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-0720

District II

1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 748-9720

District III

1000 Rio Ramos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

Energy, Minerals and Natural Resources**Oil Conservation Division****1220 S. St Francis Dr.****Santa Fe, NM 87505****WELL LOCATION AND ACREAGE DEDICATION PLAT**

1. API Number 30-015-34476	2. Pool Code 75260	3. Pool Name COTTONWOOD CREEK,WC, WEST (GAS)
4. Property Code 35304	5. Property Name SAN SABA A 12 FEE	6. Well No. 001H
7. OGRID No. 7377	8. Operator Name EOG RESOURCES INC	9. Elevation 3543

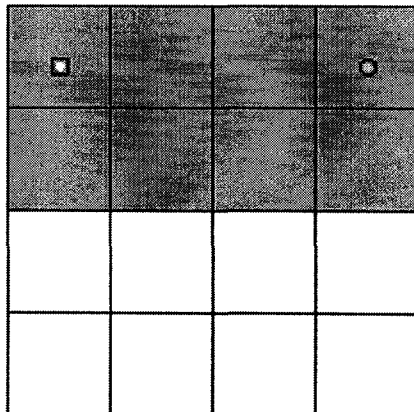
10. Surface Location

UL - Lot A	Section 12	Township 16S	Range 24E	Lot Etn	Feet From 760	N/S Line N	Feet From 660	E/W Line E	County EDDY
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11. Bottom Hole Location If Different From Surface

UL - Lot D	Section 12	Township 16S	Range 24E	Lot Etn D	Feet From 760	N/S Line N	Feet From 660	E/W Line W	County EDDY
12. Dedicated Acres 320.00		13. Joint or Infill		14. Consolidation Code			15. Order No.		

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

**OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: Mike Francis

Title: ROW Agent

Date: 12/16/2005

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Terry Asel

Date of Survey: 12/2/2005

Certificate Number: 15079

Permit Comments

Operator: EOG RESOURCES INC , 7377

Well: SAN SABA A 12 FEE #001H

API: 30-015-34476

Created By	Comment	Comment Date
dglanton	Plat, Detailed Casing, Mud, Cement, Drilling Plan along with H2S Letter being mailed.	12/18/2005

Permit Conditions of Approval

Operator: EOG RESOURCES INC , 7377

Well: SAN SABA A 12 FEE #001H

API: 30-015-34476

OCD Reviewer	Condition
BArrant	Will require a directional survey with the C-104
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, D.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	Please notify OCD time of spud and time to witness the cementing to surface the 'water protection' string of casing.
BArrant	If by case another well drilling to produce from the same formation in this proration unit is proposed, an approval from Santa Fe for SP is required.
BArrant	As noted 'fresh water mud/spud mud' is to be used in drilling the surface hole.

COPY

District I
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
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34476	Pool Code 75260	Pool Name Cottonwood Creek; WC, West (gas)
Property Code	Property Name SAN SABA A 12 FEE	Well Number 1H
OGRID No. 7377	Operator Name EOG RESOURCES, INC	Elevation 3543.7'

Surface Location

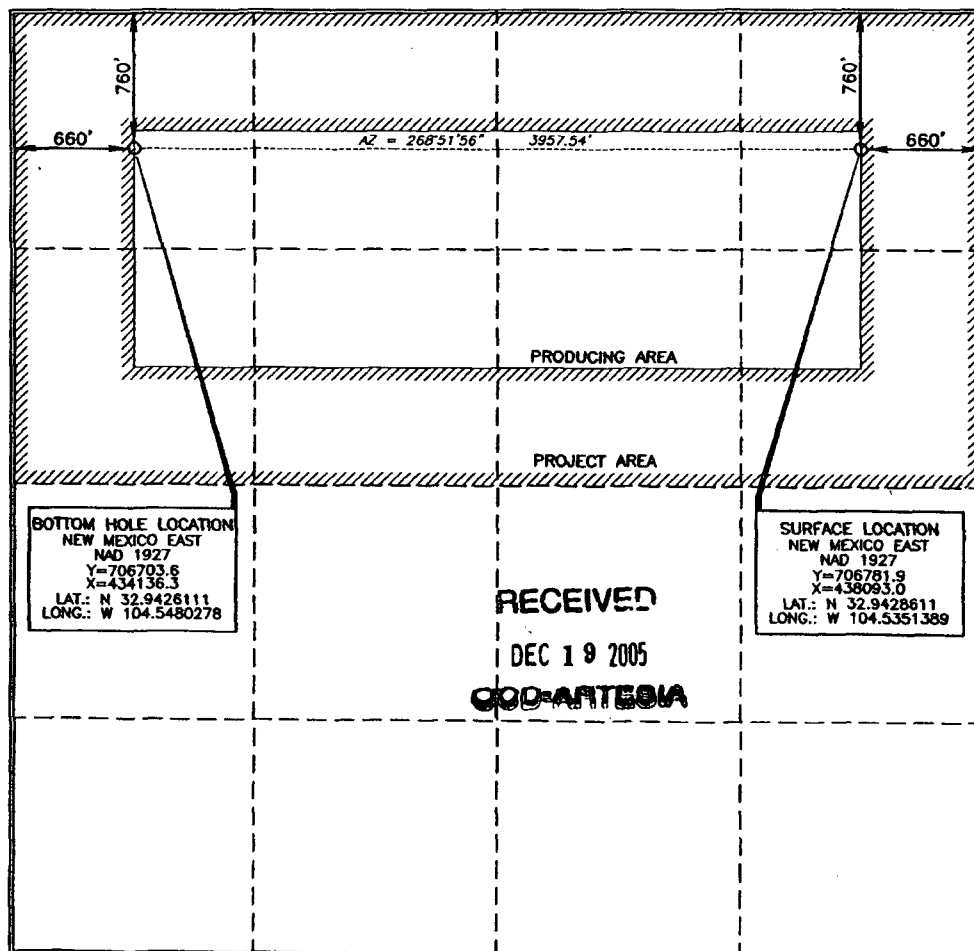
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	12	16 SOUTH	24 EAST, N.M.P.M.		760	NORTH	660	EAST	EDDY

Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	12	16 SOUTH	24 EAST, N.M.P.M.		760	NORTH	660	WEST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Donny G. Glanton 12/16/05
Signature Date

Donny G. Glanton
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

DECEMBER 2, 2005
Date of Survey
Signature and Seal of Professional Surveyor

Terry J. Asch 12/5/05
Certificate Number 15079

WO# 051122WL-d (cog)

Permit Information:

Well Name: San Saba A 12 Fee #1H

Location:

SL 760' FSL & 200' FEL, Section 12, T-16-S, R-24-E, Eddy Co., N.M.

BHL 760' FSL & 660' FWL, Section 12, T-16-S, R-24-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	900'	9-7/8"	7"	26#	J-55	Surface
Production	8,394'	6-1/8"	4 1/2"	11.6/ 13.5#	P-110	Surface

Cement Program:

Depth	No. Sacks	Slurries:
900'	300	Lead: Premium Plus + 2% CaCl ₂ + 3% Econolite + 1/4 pps Flocele
	200	Tail: Premium Plus + 2% CaCl ₂ + 1/4 pps Flocele
8,394'	400	Lead: Interfill C + 1/4 pps Flocele
	350	Tail: Premium Cement + 100% Acid Soluble Additive + 0.6% Halad®-344 + 0.8% Econolite + 0.2% HR-55

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 950'	Fresh - Gel	8.6-8.8	28-34	N/c
950' - 4,400'	Cut Brine	8.8-9.2	28-34	N/c
4,400' - 5,100'	Cut Brine	8.8-9.2	28-34	10-15
4,200' - 8,394'	Polymer (Lateral)	9.0-9.4	40-45	10-25

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Company: eog resources Date: 12/16/2005 Time: 12:12:22 Page: 1
Field: Thames Co-ordinate(N/E) Reference: Site: San Saba A 12 Fee #1H Grid North
Site: San Saba A 12 Fee #1H Vertical (TVD) Reference: SITE 3561.0
Well: San Saba A 12 Fee #1H Section (V/S) Reference: Well (0.00N,0.00E,268.87Azi)
Wellpath: San Saba A 12 Fee #1H Plan: Plan #1

Field: Thames

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Svs Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Site Centre
Geomagnetic Model: igrf2000

Site: San Saba A 12 Fee #1H

Site Position:	Northing:	706781.90 ft	Latitude:	32 56	34.277 N
From: Map	Easting:	438093.00 ft	Longitude:	104 32	6.463 W
Position Uncertainty:	0.00 ft		North Reference:		Grid
Ground Level:	3544.00 ft		Grid Convergence:		-0.11 deg

Well: San Saba A 12 Fee #1H

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	706781.90 ft	Latitude:	32	56	34.277 N
	+E/-W	0.00 ft	Easting :	438093.00 ft	Longitude:	104	32	6.463 W
Position Uncertainty:		0.00 ft						

Wellpath: San Saba A 12 Fee #1H

Drilled From: **Surface**

Current Datum:	SITE	Height 3561.00 ft	IK-on Depth:	Mean Sea Level
Magnetic Data:	12/16/2005		Above System Datum:	9.01 deg
Field Strength:	49692 nT		Declination:	60.92 deg
Vertical Section:	Depth From (TVD)	+N-S	Mag Dip Angle:	Direction
	ft	ft	+E-W ft	deg
	4553.00	0.00	0.00	268.87

Plan: Plan #1

Date Composed: 12/16/2005
Version: 1
Tied-to: From Surface

Principal: Yes

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4218.00	0.00	0.00	4218.00	0.00	0.00	0.00	0.00	0.00	0.00	
4818.00	90.00	268.87	4599.97	-7.53	-381.90	15.00	15.00	0.00	268.87	
4843.18	90.76	268.87	4599.81	-8.03	-407.07	3.00	3.00	-0.02	-0.31	
8393.59	90.76	268.87	4553.00	-78.30	-3956.48	0.00	0.00	0.00	0.00	
8393.81	90.75	268.87	4553.00	-78.30	-3956.70	3.00	-2.38	1.83	142.40	BHL

Section 1 : Start Hold

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Planning Report

Company: eog resources
Field: Thames
Site: San Saba A 12 Fee #1H
Well: San Saba A 12 Fee #1H
Wellpath: San Saba A 12 Fee #1H

Date: 12/16/2005 Time: 12:12:22 Page: 2
Co-ordinate(NE) Reference: Site: San Saba A 12 Fee #1H, Grid North
Vertical (TVD) Reference: SITE 3561.0
Section (VS) Reference: Well (0.00N,0.00E,268.87Azi)
Plan: Plan #1

Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4218.00	0.00	0.00	4218.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 2 : Start Build 15.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4225.00	1.05	268.87	4225.00	0.00	-0.06	0.06	15.00	15.00	0.00	0.00
4250.00	4.80	268.87	4249.96	-0.03	-1.34	1.34	15.00	15.00	0.00	0.00
4275.00	8.55	268.87	4274.79	-0.08	-4.24	4.25	15.00	15.00	0.00	0.00
4300.00	12.30	268.87	4299.37	-0.17	-8.77	8.77	15.00	15.00	0.00	0.00
4325.00	16.05	268.87	4323.61	-0.29	-14.89	14.89	15.00	15.00	0.00	0.00
4350.00	19.80	268.87	4347.39	-0.45	-22.58	22.58	15.00	15.00	0.00	0.00
4375.00	23.55	268.87	4370.62	-0.63	-31.81	31.81	15.00	15.00	0.00	0.00
4400.00	27.30	268.87	4393.19	-0.84	-42.54	42.55	15.00	15.00	0.00	0.00
4425.00	31.05	268.87	4415.02	-1.08	-54.72	54.73	15.00	15.00	0.00	0.00
4450.00	34.80	268.87	4436.00	-1.35	-68.30	68.32	15.00	15.00	0.00	0.00
4475.00	38.55	268.87	4456.04	-1.64	-83.23	83.25	15.00	15.00	0.00	0.00
4500.00	42.30	268.87	4475.07	-1.96	-99.43	99.45	15.00	15.00	0.00	0.00
4525.00	46.05	268.87	4493.00	-2.30	-116.85	116.87	15.00	15.00	0.00	0.00
4550.00	49.80	268.87	4509.75	-2.67	-135.40	135.43	15.00	15.00	0.00	0.00
4575.00	53.55	268.87	4525.25	-3.06	-155.00	155.03	15.00	15.00	0.00	0.00
4600.00	57.30	268.87	4539.43	-3.46	-175.58	175.62	15.00	15.00	0.00	0.00
4625.00	61.05	268.87	4552.24	-3.89	-197.04	197.08	15.00	15.00	0.00	0.00
4650.00	64.80	268.87	4563.62	-4.33	-219.29	219.34	15.00	15.00	0.00	0.00
4675.00	68.55	268.87	4573.52	-4.78	-242.24	242.29	15.00	15.00	0.00	0.00
4700.00	72.30	268.87	4581.89	-5.24	-265.79	265.84	15.00	15.00	0.00	0.00
4725.00	76.05	268.87	4588.71	-5.72	-289.83	289.89	15.00	15.00	0.00	0.00
4750.00	79.80	268.87	4593.94	-6.20	-314.27	314.33	15.00	15.00	0.00	0.00
4775.00	83.55	268.87	4597.55	-6.69	-339.00	339.06	15.00	15.00	0.00	0.00
4800.00	87.30	268.87	4599.55	-7.18	-363.91	363.98	15.00	15.00	0.00	0.00
4818.00	90.00	268.87	4599.97	-7.53	-381.90	381.97	15.00	15.00	0.00	0.00

Section 3 : Start DLS 3.00 TFO -0.31

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4843.18	90.76	268.87	4599.81	-8.03	-407.07	407.15	3.00	3.00	-0.02	-0.31

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Page: 3

Section 4 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4900.00	90.76	268.87	4599.06	-9.15	-463.88	463.97	0.00	0.00	0.00	0.00
5000.00	90.76	268.87	4597.74	-11.13	-563.85	563.96	0.00	0.00	0.00	0.00
5100.00	90.76	268.87	4596.42	-13.11	-663.82	663.95	0.00	0.00	0.00	0.00
5200.00	90.76	268.87	4595.10	-15.09	-763.79	763.94	0.00	0.00	0.00	0.00
5300.00	90.76	268.87	4593.78	-17.07	-863.76	863.93	0.00	0.00	0.00	0.00
5400.00	90.76	268.87	4592.47	-19.05	-963.73	963.92	0.00	0.00	0.00	0.00
5500.00	90.76	268.87	4591.15	-21.03	-1063.71	1063.91	0.00	0.00	0.00	0.00
5600.00	90.76	268.87	4589.83	-23.01	-1163.68	1163.91	0.00	0.00	0.00	0.00
5700.00	90.76	268.87	4588.51	-24.99	-1263.65	1263.90	0.00	0.00	0.00	0.00
5800.00	90.76	268.87	4587.19	-26.97	-1363.62	1363.89	0.00	0.00	0.00	0.00
5900.00	90.76	268.87	4585.87	-28.95	-1463.59	1463.88	0.00	0.00	0.00	0.00
6000.00	90.76	268.87	4584.56	-30.92	-1563.56	1563.87	0.00	0.00	0.00	0.00
6100.00	90.76	268.87	4583.24	-32.90	-1663.54	1663.86	0.00	0.00	0.00	0.00
6200.00	90.76	268.87	4581.92	-34.88	-1763.51	1763.85	0.00	0.00	0.00	0.00
6300.00	90.76	268.87	4580.60	-36.86	-1863.48	1863.84	0.00	0.00	0.00	0.00
6400.00	90.76	268.87	4579.28	-38.84	-1963.45	1963.84	0.00	0.00	0.00	0.00
6500.00	90.76	268.87	4577.96	-40.82	-2063.42	2063.83	0.00	0.00	0.00	0.00
6600.00	90.76	268.87	4576.65	-42.80	-2163.40	2163.82	0.00	0.00	0.00	0.00
6700.00	90.76	268.87	4575.33	-44.78	-2263.37	2263.81	0.00	0.00	0.00	0.00
6800.00	90.76	268.87	4574.01	-46.76	-2363.34	2363.80	0.00	0.00	0.00	0.00
6900.00	90.76	268.87	4572.69	-48.74	-2463.31	2463.79	0.00	0.00	0.00	0.00
7000.00	90.76	268.87	4571.37	-50.72	-2563.28	2563.78	0.00	0.00	0.00	0.00
7100.00	90.76	268.87	4570.06	-52.69	-2663.25	2663.78	0.00	0.00	0.00	0.00
7200.00	90.76	268.87	4568.74	-54.67	-2763.23	2763.77	0.00	0.00	0.00	0.00
7300.00	90.76	268.87	4567.42	-56.65	-2863.20	2863.76	0.00	0.00	0.00	0.00
7400.00	90.76	268.87	4566.10	-58.63	-2963.17	2963.75	0.00	0.00	0.00	0.00
7500.00	90.76	268.87	4564.78	-60.61	-3063.14	3063.74	0.00	0.00	0.00	0.00
7600.00	90.76	268.87	4563.46	-62.59	-3163.11	3163.73	0.00	0.00	0.00	0.00
7700.00	90.76	268.87	4562.15	-64.57	-3263.08	3263.72	0.00	0.00	0.00	0.00
7800.00	90.76	268.87	4560.83	-66.55	-3363.06	3363.71	0.00	0.00	0.00	0.00
7900.00	90.76	268.87	4559.51	-68.53	-3463.03	3463.71	0.00	0.00	0.00	0.00
8000.00	90.76	268.87	4558.19	-70.51	-3563.00	3563.70	0.00	0.00	0.00	0.00
8100.00	90.76	268.87	4556.87	-72.49	-3662.97	3663.69	0.00	0.00	0.00	0.00
8200.00	90.76	268.87	4555.55	-74.46	-3762.94	3763.68	0.00	0.00	0.00	0.00
8300.00	90.76	268.87	4554.24	-76.44	-3862.91	3863.67	0.00	0.00	0.00	0.00
8393.59	90.76	268.87	4553.00	-78.30	-3956.48	3957.25	0.00	0.00	0.00	0.00

Section 5 : Start DLS 3.00 TFO 142.40

MD ft	Incl deg (True)	Azim deg	TVD ft	N-S ft	E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
8393.81	90.75	268.87	4553.00	-78.30	-3956.70	3957.47	3.00	-2.38	1.83	142.40

Survey

[illegible]

e Planning Report

Company: eog resources	Date: 12/16/2005	Time: 12:12:22	Page: 4
Field: Thames	Co-ordinate(NE) Reference: Site: San Saba A 12 Fee #1H; Grid North		
Site: San Saba A 12 Fee #1H	Vertical (TVD) Reference: SITE 3561.0		
Well: San Saba A 12 Fee #1H	Section (VS) Reference: Well (0.00N,0.00E,268.87Azi)		
Wellpath: San Saba A 12 Fee #1H	Plan:	Plan: #1	

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/S ft	+E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4218.00	0.00	0.00	4218.00	0.00	0.00	0.00	0.00	0.00	0.00	
4225.00	1.05	268.87	4225.00	0.00	-0.06	0.06	15.00	15.00	0.00	
4250.00	4.80	268.87	4249.96	-0.03	-1.34	1.34	15.00	15.00	0.00	
4275.00	8.55	268.87	4274.79	-0.08	-4.24	4.25	15.00	15.00	0.00	
4300.00	12.30	268.87	4299.37	-0.17	-8.77	8.77	15.00	15.00	0.00	
4325.00	16.05	268.87	4323.61	-0.29	-14.89	14.89	15.00	15.00	0.00	
4350.00	19.80	268.87	4347.39	-0.45	-22.58	22.58	15.00	15.00	0.00	
4375.00	23.55	268.87	4370.62	-0.63	-31.81	31.81	15.00	15.00	0.00	
4400.00	27.30	268.87	4393.19	-0.84	-42.54	42.55	15.00	15.00	0.00	
4425.00	31.05	268.87	4415.02	-1.08	-54.72	54.73	15.00	15.00	0.00	
4450.00	34.80	268.87	4436.00	-1.35	-68.30	68.32	15.00	15.00	0.00	
4475.00	38.55	268.87	4456.04	-1.64	-83.23	83.25	15.00	15.00	0.00	
4500.00	42.30	268.87	4475.07	-1.96	-99.43	99.45	15.00	15.00	0.00	
4525.00	46.05	268.87	4493.00	-2.30	-116.85	116.87	15.00	15.00	0.00	
4550.00	49.80	268.87	4509.75	-2.67	-135.40	135.43	15.00	15.00	0.00	
4575.00	53.55	268.87	4525.25	-3.06	-155.00	155.03	15.00	15.00	0.00	
4600.00	57.30	268.87	4539.43	-3.46	-175.58	175.62	15.00	15.00	0.00	
4625.00	61.05	268.87	4552.24	-3.89	-197.04	197.08	15.00	15.00	0.00	
4650.00	64.80	268.87	4563.62	-4.33	-219.29	219.34	15.00	15.00	0.00	
4675.00	68.55	268.87	4573.52	-4.78	-242.24	242.29	15.00	15.00	0.00	
4700.00	72.30	268.87	4581.89	-5.24	-265.79	265.84	15.00	15.00	0.00	
4725.00	76.05	268.87	4588.71	-5.72	-289.83	289.89	15.00	15.00	0.00	
4750.00	79.80	268.87	4593.94	-6.20	-314.27	314.33	15.00	15.00	0.00	
4775.00	83.55	268.87	4597.55	-6.69	-339.00	339.06	15.00	15.00	0.00	
4800.00	87.30	268.87	4599.55	-7.18	-363.91	363.98	15.00	15.00	0.00	

e
Planning Report

Company: eog resources	Date: 12/16/2005	Time: 12:12:22	Page: 5
Field: Thames	Co-ordinate(NE) Reference:	Site: San Saba A 12 Fee #1H	Grid North
Site: San Saba A 12 Fee #1H	Vertical (TVD) Reference:	SITE 3561.0	
Well: San Saba A 12 Fee #1H	Section (VS) Reference:	Well (0.00N,0.00E,268.87Azi)	
Wellpath: San Saba A 12 Fee #1H	Plan:	Plan #1	

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/S ft	+E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4818.00	90.00	268.87	4599.97	-7.53	-381.90	381.97	15.00	15.00	0.00	
4843.18	90.76	268.87	4599.81	-8.03	-407.07	407.15	3.00	3.00	-0.02	
4900.00	90.76	268.87	4599.06	-9.15	-463.88	463.97	0.00	0.00	0.00	
5000.00	90.76	268.87	4597.74	-11.13	-563.85	563.96	0.00	0.00	0.00	
5100.00	90.76	268.87	4596.42	-13.11	-663.82	663.95	0.00	0.00	0.00	
5200.00	90.76	268.87	4595.10	-15.09	-763.79	763.94	0.00	0.00	0.00	
5300.00	90.76	268.87	4593.78	-17.07	-863.76	863.93	0.00	0.00	0.00	
5400.00	90.76	268.87	4592.47	-19.05	-963.73	963.92	0.00	0.00	0.00	
5500.00	90.76	268.87	4591.15	-21.03	-1063.71	1063.91	0.00	0.00	0.00	
5600.00	90.76	268.87	4589.83	-23.01	-1163.68	1163.91	0.00	0.00	0.00	
5700.00	90.76	268.87	4588.51	-24.99	-1263.65	1263.90	0.00	0.00	0.00	
5800.00	90.76	268.87	4587.19	-26.97	-1363.62	1363.89	0.00	0.00	0.00	
5900.00	90.76	268.87	4585.87	-28.95	-1463.59	1463.88	0.00	0.00	0.00	
6000.00	90.76	268.87	4584.56	-30.92	-1563.56	1563.87	0.00	0.00	0.00	
6100.00	90.76	268.87	4583.24	-32.90	-1663.54	1663.86	0.00	0.00	0.00	
6200.00	90.76	268.87	4581.92	-34.88	-1763.51	1763.85	0.00	0.00	0.00	
6300.00	90.76	268.87	4580.60	-36.86	-1863.48	1863.84	0.00	0.00	0.00	
6400.00	90.76	268.87	4579.28	-38.84	-1963.45	1963.84	0.00	0.00	0.00	
6500.00	90.76	268.87	4577.96	-40.82	-2063.42	2063.83	0.00	0.00	0.00	
6600.00	90.76	268.87	4576.65	-42.80	-2163.40	2163.82	0.00	0.00	0.00	
6700.00	90.76	268.87	4575.33	-44.78	-2263.37	2263.81	0.00	0.00	0.00	
6800.00	90.76	268.87	4574.01	-46.76	-2363.34	2363.80	0.00	0.00	0.00	
6900.00	90.76	268.87	4572.69	-48.74	-2463.31	2463.79	0.00	0.00	0.00	
7000.00	90.76	268.87	4571.37	-50.72	-2563.28	2563.78	0.00	0.00	0.00	
7100.00	90.76	268.87	4570.06	-52.69	-2663.25	2663.78	0.00	0.00	0.00	
7200.00	90.76	268.87	4568.74	-54.67	-2763.23	2763.77	0.00	0.00	0.00	
7300.00	90.76	268.87	4567.42	-56.65	-2863.20	2863.76	0.00	0.00	0.00	
7400.00	90.76	268.87	4566.10	-58.63	-2963.17	2963.75	0.00	0.00	0.00	
7500.00	90.76	268.87	4564.78	-60.61	-3063.14	3063.74	0.00	0.00	0.00	
7600.00	90.76	268.87	4563.46	-62.59	-3163.11	3163.73	0.00	0.00	0.00	
7700.00	90.76	268.87	4562.15	-64.57	-3263.08	3263.72	0.00	0.00	0.00	
7800.00	90.76	268.87	4560.83	-66.55	-3363.06	3363.71	0.00	0.00	0.00	
7900.00	90.76	268.87	4559.51	-68.53	-3463.03	3463.71	0.00	0.00	0.00	
8000.00	90.76	268.87	4558.19	-70.51	-3563.00	3563.70	0.00	0.00	0.00	
8100.00	90.76	268.87	4556.87	-72.49	-3662.97	3663.69	0.00	0.00	0.00	
8200.00	90.76	268.87	4555.55	-74.46	-3762.94	3763.68	0.00	0.00	0.00	
8300.00	90.76	268.87	4554.24	-76.44	-3862.91	3863.67	0.00	0.00	0.00	
8393.59	90.76	268.87	4553.00	-78.30	-3956.48	3957.25	0.00	0.00	0.00	
8393.81	90.75	268.87	4553.00	-78.30	-3956.70	3957.47	3.00	-2.38	1.83	

SITE DETAILS

San Saha A 12 Fee #1H

Site Centre Northing: 706781.90
Easting: 438093.00

Ground Level: 3544.00
Positional Uncertainty: 0.00
Convergence: -0.11

WELLPATH DETAILS

San Saha A 12 Fee #1H

Rig:	SITE	3561.00ft
Ref. Datum:		
V. Section Angle	Origin +N/-S	Origin +E/-W
268.87°	0.00	0.00
		Starting From TVD
		4553.00

