

OCD Hobbs

HOBBS OCD

ATS-15-292

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 01 2015

APPLICATION FOR PERMIT TO DRILL OR REENTER

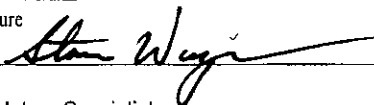
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1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM108504
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator EOG Resources, Inc. (7377)		7. If Unit or CA Agreement, Name and No.
3a. Address P.O. Box 2267 Midland, TX		8. Lease Name and Well No. Javelina 30 Fed 602H (315294)
3b. Phone No. (include area code) 432-686-3689		9. API Well No. 30-025- 42830
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 2140' FSL & 715' FWL, NWSW (L), Sec 30, T25S, R34E At proposed prod. zone 2409' FSL & 1260' FWL, NWSW (L), Sec 19, T25S, R34E		10. Field and Pool, or Exploratory Red Hills; Lower Bone Spring (51020)
14. Distance in miles and direction from nearest town or post office* Approximately +/- 24 miles Southwest from Jal, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec 30, T25S, R34E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 497' OL, 100' PP	16. No. of acres in lease 1518.40	17. Spacing Unit dedicated to this well 160 ac.
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 880' from 601H	19. Proposed Depth 17533' MD - 12290' TVD	20. BLM/BIA Bond No. on file NM 2308
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3317' GL	22. Approximate date work will start* 06/01/2015	23. Estimated duration 25 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed/Typed) Stan Wagner	Date 12/19/14
Title Regulatory Specialist		

Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date SEP 29 2015
Title FIELD MANAGER		Office 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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

KZ
10/06/15

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

OCT 08 2015

EOG RESOURCES, INC.
JAVELINA 30 FED NO. 602H

HOBBS OCD

OCT 01 2015

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

RECEIVED

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,025'
Top of Salt	1,375'
Base of Salt / Top Anhydrite	4,920'
Base Anhydrite	5,185'
Lamar	5,185'
Bell Canyon	5,215'
Cherry Canyon	6,215'
Brushy Canyon	7,815'
Bone Spring Lime	9,245'
1 st Bone Spring Sand	10,330'
2 nd Bone Spring Lime	10,580'
2 nd Bone Spring Sand	10,870'
3 rd Bone Spring Carb	11,350'
3 rd Bone Spring Sand	11,920'
TD	12,290'

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

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,215'	Oil
Brushy Canyon	7,815'	Oil
Bone Spring Lime	9,245'	Oil
1 st Bone Spring Sand	10,330'	Oil
2 nd Bone Spring Lime	10,580'	Oil
2 nd Bone Spring Sand	10,870'	Oil
3 rd Bone Spring Carb	11,350'	Oil
3 rd Bone Spring Sand	11,920'	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 1,050' and circulating cement back to surface.

4. CASING PROGRAM - NEW

*See
COA
1095*

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0 - 1,050'	9.625"	40#	J55	STC	1.125	1.25	1.60
8.75"	0-11,300'	7"	26#	HCP110	LTC	1.125	1.25	1.60
6.125"	0'-17,533'	4.500"	13.5#	P110 or HCP110	BTC	1.125	1.25	1.60

**EOG RESOURCES, INC.
JAVELINA 30 FED NO. 602H**

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
9-5/8" 1,050' 1095'	350	13.5	1.73	9.13	Lead: 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	6.34	Tail: Class C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
7" 11,300' DV Tool w/ ECP @ 5,100'	250	10.8	3.68	21.42	Stage 1 Lead: Class C + 15.00 lbs/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/sx Static Free
	200	15.6	1.19	5.23	Stage 1 Tail: Class H + 1.0% FL-52 + 0.6% CD-32 + 0.5% SMS + 1.0% Salt + 0.3% R-3
	325	12.7	2.22	12.38	Stage 2 Lead: Class 'C' + 2.0% SMS + 10.0% Slat + 0.55% R-21 + 0.25 pps Celloflake + 0.005 pps Static Free (TOC @ Surface)
	150	14.8	1.35	6.33	Stage 2 Lead: Class 'C' + 2.0% SMS + 10.0% Slat + 0.55% R-21 + 0.25 pps Celloflake + 0.005 pps Static Free (TOC @ Surface)
4-1/2" 17,533'	550	14.2	1.30	5.80	50:50:2 Class H + 0.65% FL-52 + 0.70% CD-32 + 1.0% EC-1 + 0.40% SMS + 2.0% Salt + 0.05% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L (TOC @ 10,900')

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:

See COA
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.

See COA
5000
3000 psi BOPE is adequate for this application. Due to the 5000 psi BOPE requirement no FIT tests are planned.

EOG RESOURCES, INC.
JAVELINA 30 FED NO. 602H

5000 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.

5000 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	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,050' <i>10415</i>	Fresh Water Gel	8.6-8.8	28-34	N/c
1,050' - 11,300'	Oil Base	8.7-9.4	58-68	N/c - 6
11,300' - 11,840'	Oil Base	8.7-9.4	58-68	N/c - 6
11,840' - 17,533'	Oil Base	9.0-9.5	58-68	N/c - 6
Lateral				

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) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

EOG RESOURCES, INC.
JAVELINA 30 FED NO. 602H

8. LOGGING, TESTING AND CORING PROGRAM:

See
COA

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:

See
COA

The estimated bottom-hole temperature (BHT) at TD is 179 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5321 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.

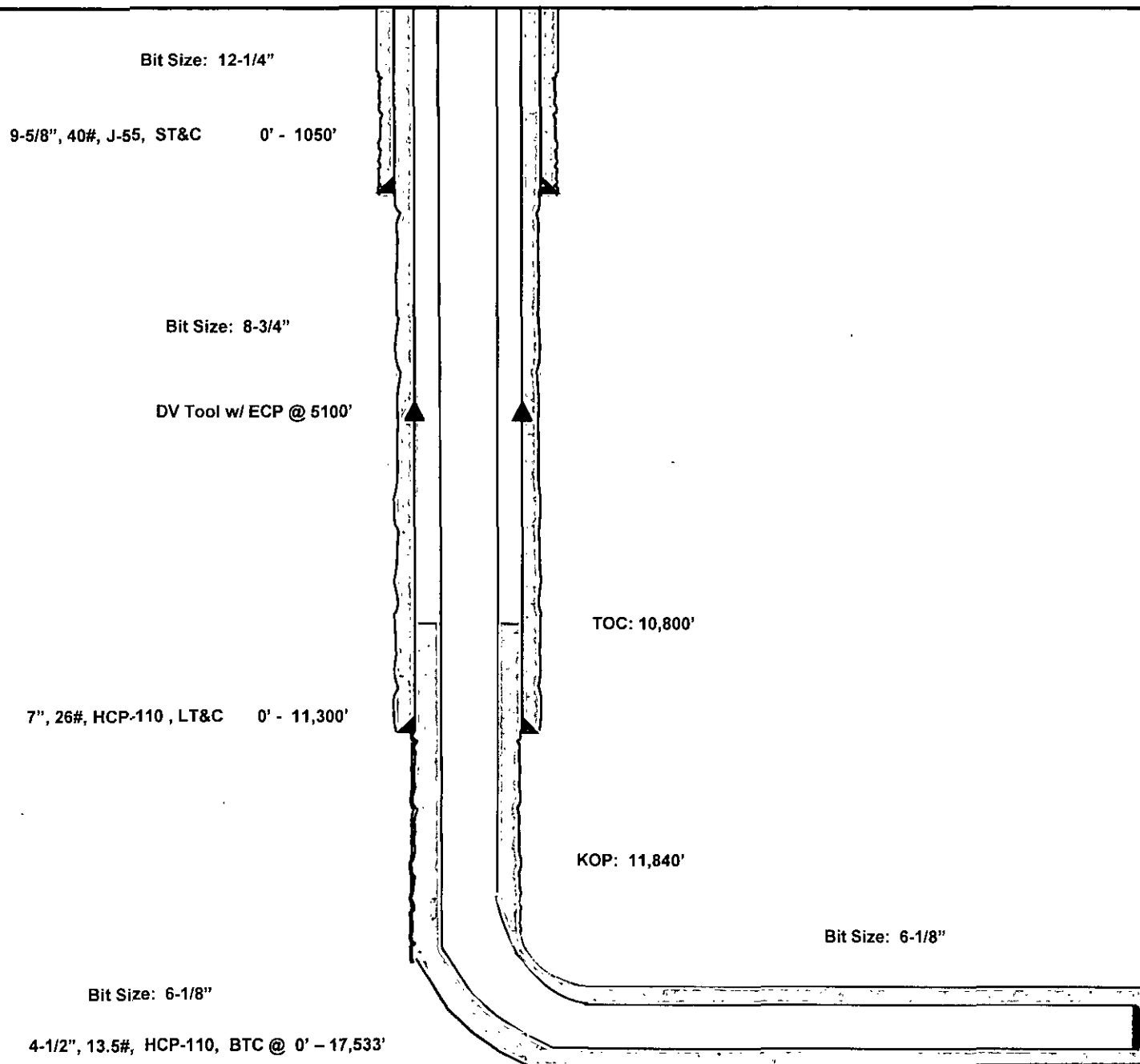
Javelina 30 Fed #602H

Lea County, New Mexico
Proposed Wellbore

2140' FSL
715' FWL
Section 30
T-25-S, R-34-E

API: 30-025-

KB: 3,347'
GL: 3,317'



Lateral: 17,533' MD, 12,290' TVD
Upper Most Perf:
2540' FNL & 1260' FWL, Sec. 30
Lower Most Perf:
2309' FSL & 1260' FEL, Sec. 19
BH Location: 2409' FSL & 1260' FWL
Section 19
T-25-S, R-34-E



Lea County, NM (NAD 27 NME)

Javelina 30 Fed #602H

Cactus 123

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1886
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #602H

Ground Level: 3317.0
KB = 30 @ 3347.0usft (Cactus 123)
Northing 401071.00 Easting 753435.00
Latitude 32° 5' 0.054 N Longitude 103° 30' 53.093 W

Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.59°

Magnetic Field
Strength: 48205.2nT
Dip Angle: 60.00°
Date: 11/18/2014
Model: IGRF201014

To convert a Magnetic Direction to a Grid Direction, Add 6.02°
To convert a Magnetic Direction to a True Direction, Add 7.13° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

SECTION DETAILS

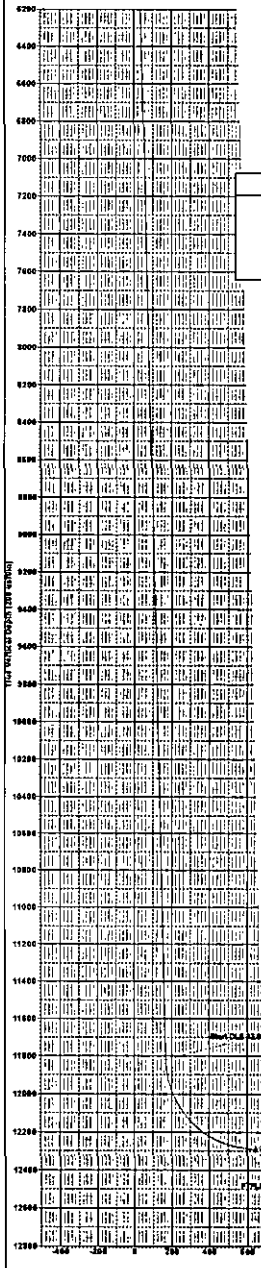
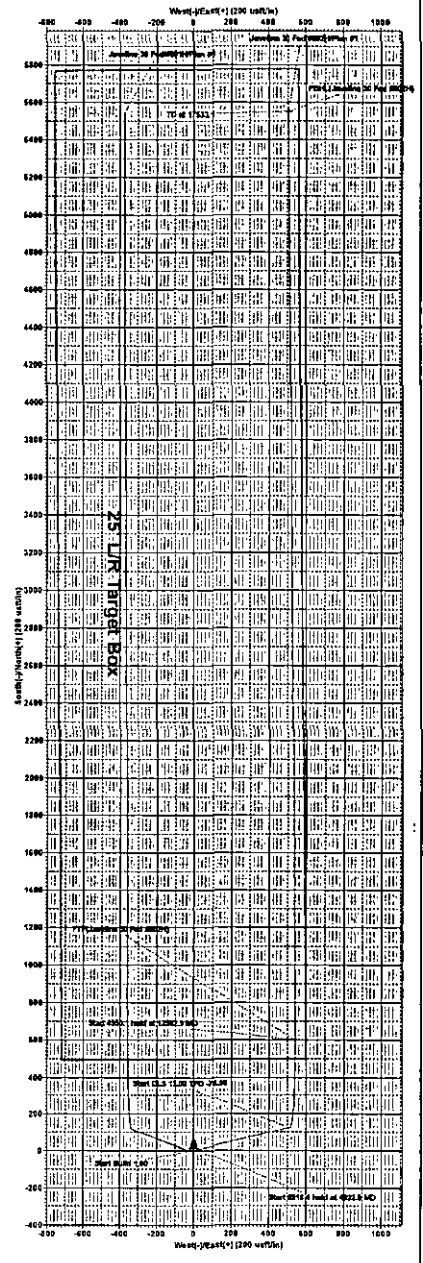
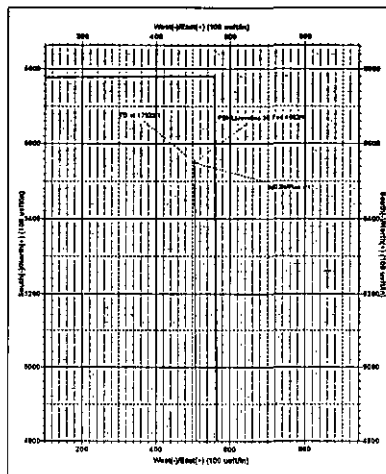
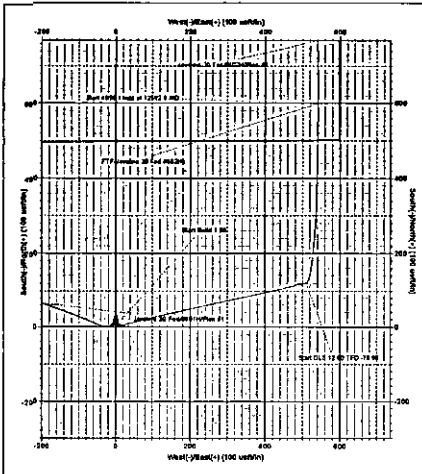
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	V-Set	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4800.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0		
3	4922.6	4.22	76.53	4922.1	3.4	15.1	1.00	76.53	8.0		
4	11840.9	4.22	76.53	11821.7	122.4	510.3	0.00	0.00	168.2		
5	12582.8	80.00	359.58	12290.0	600.0	541.0	12.00	-76.89	646.6		FTP(Javelina 30 Fed #602H)
6	17533.1	90.00	359.58	12290.0	5550.0	505.0	0.00	0.00	5572.9		PBH(Javelina 30 Fed #602H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name: FTP(Javelina 30 Fed #602H) TVD: 12290.0 +N-S: 600.0 +E-W: 541.0 Northing: 401671.00 Easting: 754026.00
PBH(Javelina 30 Fed #602H) TVD: 12290.0 6550.0 805.0 406421.00 753990.00



Lea County, NM (NAD 27 NME)
Javelina 30 Fed #602H
Cactus 123
Plan #1



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Javelina 30 Fed

#602H

OH

Plan: Plan #1

Standard Planning Report

19 November, 2014



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Javelina 30 Fed
Well: #602H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #602H
TVD Reference: KB = 30 @ 3347.0usft (Cactus 123)
MD Reference: KB = 30 @ 3347.0usft (Cactus 123)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Javelina 30 Fed		
Site Position:	Northings:	401,071.00 usft	Latitude: 32° 6' 0.056 N
From: Map	Easting:	753,455.00 usft	Longitude: 103° 30' 53.442 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16"	Grid Convergence: 0.43 °

Well	#602H		
Well Position	+N/-S	0.0 usft	Northings: 401,071.00 usft
	+E/-W	30.0 usft	Easting: 753,485.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
			Ground Level: 3,317.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF201014	11/19/2014	7.13
			Dip Angle
			60.00
			Field Strength
			48,205

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			5.20

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	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	0.00	
4,922.5	4.22	76.53	4,922.1	3.6	15.1	1.00	1.00	0.00	76.53	
11,840.9	4.22	76.53	11,821.7	122.4	510.8	0.00	0.00	0.00	0.00	
12,582.9	90.00	359.58	12,290.0	600.0	541.0	12.00	11.56	-10.37	-76.98	FTP(Javelina 30 Fed)
17,533.1	90.00	359.58	12,290.0	5,550.0	505.0	0.00	0.00	0.00	0.00	PBHL(Javelina 30 Fed)



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Javelina 30 Fed
 Well: #602H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #602H
 TVD Reference: KB = 30 @ 3347.0usft (Cactus 123)
 MD Reference: KB = 30 @ 3347.0usft (Cactus 123)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	76.53	4,600.0	0.2	0.8	0.3	1.00	1.00	0.00
4,700.0	2.00	76.53	4,700.0	0.8	3.4	1.1	1.00	1.00	0.00
4,800.0	3.00	76.53	4,799.9	1.8	7.6	2.5	1.00	1.00	0.00
4,900.0	4.00	76.53	4,899.7	3.3	13.6	4.5	1.00	1.00	0.00
4,922.5	4.22	76.53	4,922.1	3.6	15.1	5.0	1.00	1.00	0.00
5,000.0	4.22	76.53	4,999.4	5.0	20.7	6.8	0.00	0.00	0.00
5,100.0	4.22	76.53	5,099.1	6.7	27.9	9.2	0.00	0.00	0.00
5,200.0	4.22	76.53	5,198.9	8.4	35.0	11.5	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Javelina 30 Fed
 Well: #602H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #602H
 TVD Reference: KB = 30 @ 3347.0usft (Cactus 123)
 MD Reference: KB = 30 @ 3347.0usft (Cactus 123)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	4.22	76.53	5,298.6	10.1	42.2	13.9	0.00	0.00	0.00
5,400.0	4.22	76.53	5,398.3	11.8	49.4	16.2	0.00	0.00	0.00
5,500.0	4.22	76.53	5,498.0	13.5	56.5	18.6	0.00	0.00	0.00
5,600.0	4.22	76.53	5,597.8	15.3	63.7	21.0	0.00	0.00	0.00
5,700.0	4.22	76.53	5,697.5	17.0	70.8	23.3	0.00	0.00	0.00
5,800.0	4.22	76.53	5,797.2	18.7	78.0	25.7	0.00	0.00	0.00
5,900.0	4.22	76.53	5,897.0	20.4	85.2	28.0	0.00	0.00	0.00
6,000.0	4.22	76.53	5,996.7	22.1	92.3	30.4	0.00	0.00	0.00
6,100.0	4.22	76.53	6,096.4	23.8	99.5	32.8	0.00	0.00	0.00
6,200.0	4.22	76.53	6,196.1	25.6	106.7	35.1	0.00	0.00	0.00
6,300.0	4.22	76.53	6,295.9	27.3	113.8	37.5	0.00	0.00	0.00
6,400.0	4.22	76.53	6,395.6	29.0	121.0	39.8	0.00	0.00	0.00
6,500.0	4.22	76.53	6,495.3	30.7	128.2	42.2	0.00	0.00	0.00
6,600.0	4.22	76.53	6,595.1	32.4	135.3	44.5	0.00	0.00	0.00
6,700.0	4.22	76.53	6,694.8	34.1	142.5	46.9	0.00	0.00	0.00
6,800.0	4.22	76.53	6,794.5	35.9	149.6	49.3	0.00	0.00	0.00
6,900.0	4.22	76.53	6,894.2	37.6	156.8	51.6	0.00	0.00	0.00
7,000.0	4.22	76.53	6,994.0	39.3	164.0	54.0	0.00	0.00	0.00
7,100.0	4.22	76.53	7,093.7	41.0	171.1	56.3	0.00	0.00	0.00
7,200.0	4.22	76.53	7,193.4	42.7	178.3	58.7	0.00	0.00	0.00
7,300.0	4.22	76.53	7,293.2	44.4	185.5	61.1	0.00	0.00	0.00
7,400.0	4.22	76.53	7,392.9	46.1	192.6	63.4	0.00	0.00	0.00
7,500.0	4.22	76.53	7,492.6	47.9	199.8	65.8	0.00	0.00	0.00
7,600.0	4.22	76.53	7,592.3	49.6	207.0	68.1	0.00	0.00	0.00
7,700.0	4.22	76.53	7,692.1	51.3	214.1	70.5	0.00	0.00	0.00
7,800.0	4.22	76.53	7,791.8	53.0	221.3	72.8	0.00	0.00	0.00
7,900.0	4.22	76.53	7,891.5	54.7	228.5	75.2	0.00	0.00	0.00
8,000.0	4.22	76.53	7,991.3	56.4	235.6	77.6	0.00	0.00	0.00
8,100.0	4.22	76.53	8,091.0	58.2	242.8	79.9	0.00	0.00	0.00
8,200.0	4.22	76.53	8,190.7	59.9	249.9	82.3	0.00	0.00	0.00
8,300.0	4.22	76.53	8,290.4	61.6	257.1	84.6	0.00	0.00	0.00
8,400.0	4.22	76.53	8,390.2	63.3	264.3	87.0	0.00	0.00	0.00
8,500.0	4.22	76.53	8,489.9	65.0	271.4	89.4	0.00	0.00	0.00
8,600.0	4.22	76.53	8,589.6	66.7	278.6	91.7	0.00	0.00	0.00
8,700.0	4.22	76.53	8,689.4	68.5	285.8	94.1	0.00	0.00	0.00
8,800.0	4.22	76.53	8,789.1	70.2	292.9	96.4	0.00	0.00	0.00
8,900.0	4.22	76.53	8,888.8	71.9	300.1	98.8	0.00	0.00	0.00
9,000.0	4.22	76.53	8,988.5	73.6	307.3	101.1	0.00	0.00	0.00
9,100.0	4.22	76.53	9,088.3	75.3	314.4	103.5	0.00	0.00	0.00
9,200.0	4.22	76.53	9,188.0	77.0	321.6	105.9	0.00	0.00	0.00
9,300.0	4.22	76.53	9,287.7	78.8	328.7	108.2	0.00	0.00	0.00
9,400.0	4.22	76.53	9,387.5	80.5	335.9	110.6	0.00	0.00	0.00
9,500.0	4.22	76.53	9,487.2	82.2	343.1	112.9	0.00	0.00	0.00
9,600.0	4.22	76.53	9,586.9	83.9	350.2	115.3	0.00	0.00	0.00
9,700.0	4.22	76.53	9,686.6	85.6	357.4	117.7	0.00	0.00	0.00
9,800.0	4.22	76.53	9,786.4	87.3	364.6	120.0	0.00	0.00	0.00
9,900.0	4.22	76.53	9,886.1	89.1	371.7	122.4	0.00	0.00	0.00
10,000.0	4.22	76.53	9,985.8	90.8	378.9	124.7	0.00	0.00	0.00
10,100.0	4.22	76.53	10,085.5	92.5	386.1	127.1	0.00	0.00	0.00
10,200.0	4.22	76.53	10,185.3	94.2	393.2	129.5	0.00	0.00	0.00
10,300.0	4.22	76.53	10,285.0	95.9	400.4	131.8	0.00	0.00	0.00
10,400.0	4.22	76.53	10,384.7	97.6	407.5	134.2	0.00	0.00	0.00
10,500.0	4.22	76.53	10,484.5	99.4	414.7	136.5	0.00	0.00	0.00
10,600.0	4.22	76.53	10,584.2	101.1	421.9	138.9	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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 Wellbore: OH
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	4.22	76.53	10,683.9	102.8	429.0	141.2	0.00	0.00	0.00
10,800.0	4.22	76.53	10,783.6	104.5	436.2	143.6	0.00	0.00	0.00
10,900.0	4.22	76.53	10,883.4	106.2	443.4	146.0	0.00	0.00	0.00
11,000.0	4.22	76.53	10,983.1	107.9	450.5	148.3	0.00	0.00	0.00
11,100.0	4.22	76.53	11,082.8	109.7	457.7	150.7	0.00	0.00	0.00
11,200.0	4.22	76.53	11,182.6	111.4	464.9	153.0	0.00	0.00	0.00
11,300.0	4.22	76.53	11,282.3	113.1	472.0	155.4	0.00	0.00	0.00
11,400.0	4.22	76.53	11,382.0	114.8	479.2	157.8	0.00	0.00	0.00
11,500.0	4.22	76.53	11,481.7	116.5	486.4	160.1	0.00	0.00	0.00
11,600.0	4.22	76.53	11,581.5	118.2	493.5	162.5	0.00	0.00	0.00
11,700.0	4.22	76.53	11,681.2	120.0	500.7	164.8	0.00	0.00	0.00
11,800.0	4.22	76.53	11,780.9	121.7	507.8	167.2	0.00	0.00	0.00
11,840.9	4.22	76.53	11,821.7	122.4	510.8	168.2	0.00	0.00	0.00
11,850.0	4.60	63.09	11,830.8	122.6	511.4	168.5	12.00	4.08	-147.22
11,875.0	6.51	38.67	11,855.7	124.2	513.2	170.2	12.00	7.65	-97.67
11,900.0	9.03	26.49	11,880.4	127.0	515.0	173.2	12.00	10.09	-48.72
11,925.0	11.78	19.77	11,905.0	131.2	516.7	177.5	12.00	10.99	-26.91
11,950.0	14.63	15.59	11,929.4	136.6	518.4	183.1	12.00	11.38	-16.71
11,975.0	17.52	12.76	11,953.4	143.4	520.1	189.9	12.00	11.59	-11.33
12,000.0	20.45	10.71	11,977.0	151.3	521.7	198.0	12.00	11.70	-8.18
12,025.0	23.39	9.16	12,000.2	160.5	523.3	207.3	12.00	11.78	-6.21
12,050.0	26.35	7.94	12,022.9	170.9	524.9	217.8	12.00	11.82	-4.89
12,075.0	29.31	6.95	12,045.0	182.5	526.4	229.4	12.00	11.86	-3.96
12,100.0	32.28	6.12	12,066.5	195.2	527.9	242.2	12.00	11.88	-3.29
12,125.0	35.26	5.43	12,087.3	209.0	529.3	256.1	12.00	11.90	-2.79
12,150.0	38.24	4.82	12,107.3	223.9	530.6	271.1	12.00	11.91	-2.41
12,175.0	41.22	4.30	12,126.5	239.8	531.9	287.1	12.00	11.92	-2.11
12,200.0	44.20	3.83	12,144.9	256.8	533.1	304.0	12.00	11.93	-1.87
12,225.0	47.19	3.41	12,162.3	274.6	534.2	321.9	12.00	11.94	-1.68
12,250.0	50.17	3.02	12,178.8	293.4	535.2	340.6	12.00	11.95	-1.53
12,275.0	53.16	2.67	12,194.3	312.9	536.2	360.2	12.00	11.95	-1.40
12,300.0	56.15	2.35	12,208.8	333.3	537.1	380.6	12.00	11.95	-1.30
12,325.0	59.14	2.05	12,222.2	354.4	537.9	401.7	12.00	11.96	-1.21
12,350.0	62.13	1.76	12,234.4	376.2	538.6	423.4	12.00	11.96	-1.13
12,375.0	65.12	1.50	12,245.6	398.6	539.3	445.8	12.00	11.96	-1.07
12,400.0	68.11	1.24	12,255.5	421.5	539.8	468.7	12.00	11.96	-1.02
12,425.0	71.10	1.00	12,264.2	444.9	540.3	492.1	12.00	11.96	-0.98
12,450.0	74.09	0.76	12,271.7	468.8	540.6	515.8	12.00	11.97	-0.95
12,475.0	77.08	0.53	12,277.9	493.0	540.9	540.0	12.00	11.97	-0.92
12,500.0	80.07	0.30	12,282.8	517.5	541.1	564.4	12.00	11.97	-0.90
12,525.0	83.07	0.08	12,286.5	542.2	541.2	589.0	12.00	11.97	-0.88
12,550.0	86.06	359.87	12,288.9	567.1	541.2	613.8	12.00	11.97	-0.87
12,575.0	89.05	359.65	12,289.9	592.1	541.1	638.7	12.00	11.97	-0.86
12,582.9	90.00	359.58	12,290.0	600.0	541.0	646.6	12.00	11.97	-0.86
FTP(Javelina 30 Fed #602H)									
12,600.0	90.00	359.58	12,290.0	617.1	540.9	663.5	0.00	0.00	0.00
12,700.0	90.00	359.58	12,290.0	717.1	540.1	763.1	0.00	0.00	0.00
12,800.0	90.00	359.58	12,290.0	817.1	539.4	862.6	0.00	0.00	0.00
12,900.0	90.00	359.58	12,290.0	917.1	538.7	962.1	0.00	0.00	0.00
13,000.0	90.00	359.58	12,290.0	1,017.1	538.0	1,061.6	0.00	0.00	0.00
13,100.0	90.00	359.58	12,290.0	1,117.1	537.2	1,161.1	0.00	0.00	0.00
13,200.0	90.00	359.58	12,290.0	1,217.1	536.5	1,260.7	0.00	0.00	0.00
13,300.0	90.00	359.58	12,290.0	1,317.1	535.8	1,360.2	0.00	0.00	0.00



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13,400.0	90.00	359.58	12,290.0	1,417.1	535.1	1,459.7	0.00	0.00	0.00
13,500.0	90.00	359.58	12,290.0	1,517.0	534.3	1,559.2	0.00	0.00	0.00
13,600.0	90.00	359.58	12,290.0	1,617.0	533.6	1,658.7	0.00	0.00	0.00
13,700.0	90.00	359.58	12,290.0	1,717.0	532.9	1,758.3	0.00	0.00	0.00
13,800.0	90.00	359.58	12,290.0	1,817.0	532.1	1,857.8	0.00	0.00	0.00
13,900.0	90.00	359.58	12,290.0	1,917.0	531.4	1,957.3	0.00	0.00	0.00
14,000.0	90.00	359.58	12,290.0	2,017.0	530.7	2,056.8	0.00	0.00	0.00
14,100.0	90.00	359.58	12,290.0	2,117.0	530.0	2,156.3	0.00	0.00	0.00
14,200.0	90.00	359.58	12,290.0	2,217.0	529.2	2,255.9	0.00	0.00	0.00
14,300.0	90.00	359.58	12,290.0	2,317.0	528.5	2,355.4	0.00	0.00	0.00
14,400.0	90.00	359.58	12,290.0	2,417.0	527.8	2,454.9	0.00	0.00	0.00
14,500.0	90.00	359.58	12,290.0	2,517.0	527.1	2,554.4	0.00	0.00	0.00
14,600.0	90.00	359.58	12,290.0	2,617.0	526.3	2,653.9	0.00	0.00	0.00
14,700.0	90.00	359.58	12,290.0	2,717.0	525.6	2,753.5	0.00	0.00	0.00
14,800.0	90.00	359.58	12,290.0	2,817.0	524.9	2,853.0	0.00	0.00	0.00
14,900.0	90.00	359.58	12,290.0	2,917.0	524.1	2,952.5	0.00	0.00	0.00
15,000.0	90.00	359.58	12,290.0	3,017.0	523.4	3,052.0	0.00	0.00	0.00
15,100.0	90.00	359.58	12,290.0	3,117.0	522.7	3,151.5	0.00	0.00	0.00
15,200.0	90.00	359.58	12,290.0	3,217.0	522.0	3,251.1	0.00	0.00	0.00
15,300.0	90.00	359.58	12,290.0	3,317.0	521.2	3,350.6	0.00	0.00	0.00
15,400.0	90.00	359.58	12,290.0	3,417.0	520.5	3,450.1	0.00	0.00	0.00
15,500.0	90.00	359.58	12,290.0	3,517.0	519.8	3,549.6	0.00	0.00	0.00
15,600.0	90.00	359.58	12,290.0	3,617.0	519.1	3,649.1	0.00	0.00	0.00
15,700.0	90.00	359.58	12,290.0	3,717.0	518.3	3,748.7	0.00	0.00	0.00
15,800.0	90.00	359.58	12,290.0	3,817.0	517.6	3,848.2	0.00	0.00	0.00
15,900.0	90.00	359.58	12,290.0	3,917.0	516.9	3,947.7	0.00	0.00	0.00
16,000.0	90.00	359.58	12,290.0	4,017.0	516.1	4,047.2	0.00	0.00	0.00
16,100.0	90.00	359.58	12,290.0	4,117.0	515.4	4,146.7	0.00	0.00	0.00
16,200.0	90.00	359.58	12,290.0	4,217.0	514.7	4,246.3	0.00	0.00	0.00
16,300.0	90.00	359.58	12,290.0	4,317.0	514.0	4,345.8	0.00	0.00	0.00
16,400.0	90.00	359.58	12,290.0	4,417.0	513.2	4,445.3	0.00	0.00	0.00
16,500.0	90.00	359.58	12,290.0	4,517.0	512.5	4,544.8	0.00	0.00	0.00
16,600.0	90.00	359.58	12,290.0	4,617.0	511.8	4,644.3	0.00	0.00	0.00
16,700.0	90.00	359.58	12,290.0	4,717.0	511.1	4,743.9	0.00	0.00	0.00
16,800.0	90.00	359.58	12,290.0	4,817.0	510.3	4,843.4	0.00	0.00	0.00
16,900.0	90.00	359.58	12,290.0	4,917.0	509.6	4,942.9	0.00	0.00	0.00
17,000.0	90.00	359.58	12,290.0	5,017.0	508.9	5,042.4	0.00	0.00	0.00
17,100.0	90.00	359.58	12,290.0	5,117.0	508.1	5,141.9	0.00	0.00	0.00
17,200.0	90.00	359.58	12,290.0	5,217.0	507.4	5,241.5	0.00	0.00	0.00
17,300.0	90.00	359.58	12,290.0	5,316.9	506.7	5,341.0	0.00	0.00	0.00
17,400.0	90.00	359.58	12,290.0	5,416.9	506.0	5,440.5	0.00	0.00	0.00
17,500.0	90.00	359.58	12,290.0	5,516.9	505.2	5,540.0	0.00	0.00	0.00
17,533.1	90.00	359.58	12,290.0	5,550.0	505.0	5,572.9	0.00	0.00	0.00

PBHL(Javelina 30 Fed #602H)



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Javelina 30 Fed
Well: #602H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #602H
TVD Reference: KB = 30 @ 3347.0usft (Cactus 123)
MD Reference: KB = 30 @ 3347.0usft (Cactus 123)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(Javelina 30 Fed #6) - plan hits target center - Point	0.00	0.00	12,290.0	600.0	541.0	401,671.00	754,026.00	32° 6' 5.950 N	103° 30' 46.751 W
PBHL(Javelina 30 Fed #) - plan hits target center - Point	0.00	0.00	12,290.0	5,550.0	505.0	406,621.00	753,990.00	32° 6' 54.936 N	103° 30' 46.732 W

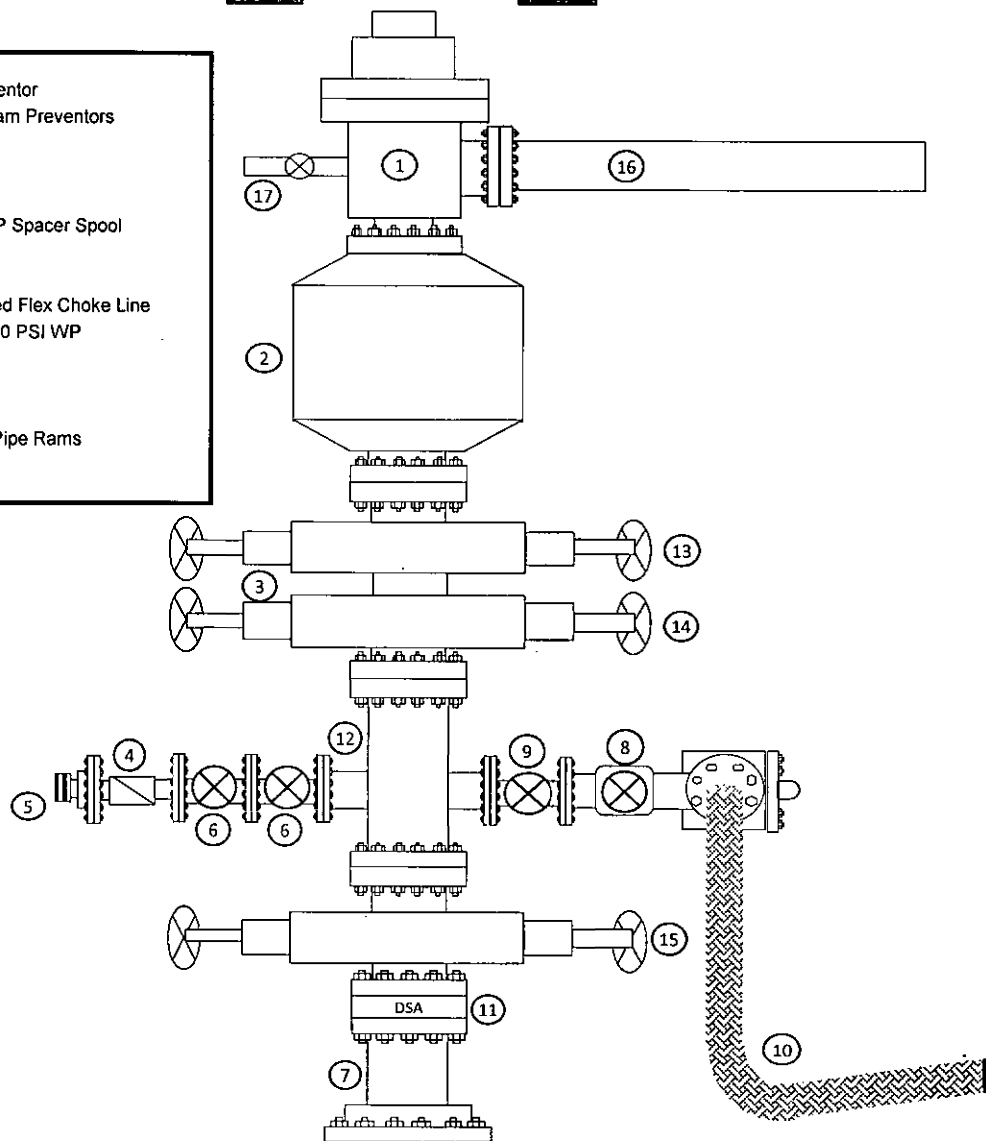
Exhibit 1

EOG Resources

5M BOPE

Rig Floor

1. 13 5/8" Rotating Head
2. NOV 13 5/8" 5,000 PSI WP GK Annular Preventor
3. 13 5/8" Cameron Type "U" 10,000 PSI WP Ram Preventors
4. 2 1/16" - 10,000 PSI WP Check Valve
5. 10,000 PSI WP - 1502 Union to kill line
6. 2 1/16" - 10,000 PSI WP Manual Valves
7. 13 5/8" 3,000 PSI WP x 13 5/8" 5,000 PSI WP Spacer Spool
8. 4 1/16" 10,000 PSI WP HCR Valve
9. 4 1/16" 10,000 PSI WP Manual Valve
10. 6" OD x 3" ID 10,000 PSI WP Steel Armoured Flex Choke Line
11. DSA - 13 5/8" 10,000 PSI WP x 13 5/8" 5,000 PSI WP
12. Mud Cross - 13 5/8" 10,000 PSI WP
13. Blind Rams
14. Pipe Rams
15. 13 5/8" Cameron Type "U" 10,000 PSI WP Pipe Rams
16. Flow Line
17. 2" Fill Line



EOG Resources

5M BOPE

- ## EOG Resources 5M BOPE
1. Cameron 2 1/16" 10,000 PSI WP Gate Valve
 2. 4 1/16" 10,000 PSI WP Manual Choke
 3. Cameron 4 1/16" 10,000 PSI WP Manual Valve
 4. 8" OD x 4" ID 10,000 PSI WP Flex Choke Line
 5. Cameron 4 1/16" 10,000 PSI WP Manual Valve & Pressure Gauge on Pressure Block
 6. 10,000 PSI WP Hydrdualic Choke Valve
 7. 8" Expansion Chamber
 8. LP Butterfly Valve
 9. LP Valve
 10. 4" Panic Line
 11. 6" Butterfly Valve
 12. 10-3/4" Butterfly Valve
 13. 6" Butterfly Valve
- The diagram illustrates the EOG Resources 5M BOPE system. At the top, a horizontal line with an arrow pointing right is labeled "To Shale Shaker". Below this, a large circular "Mud Gas Separator" is shown. A diagonal line connects the separator to a vertical "8" Expansion Chamber" (labeled 7). To the right of the separator, a line labeled "150' to Flare" exits. The expansion chamber has two main vertical sections. The left section contains a series of valves and chokes, including a "4 1/16" 10,000 PSI WP Manual Choke" (2) at the top, followed by several "Cameron 4 1/16" 10,000 PSI WP Manual Valves" (3), a "Cameron 4 1/16" 10,000 PSI WP Manual Valve & Pressure Gauge on Pressure Block" (5), and a "10,000 PSI WP Hydrdualic Choke Valve" (6) at the bottom. The right section of the expansion chamber has a "6" Butterfly Valve" (11) at the top, followed by a "10-3/4" Butterfly Valve" (12), and a "6" Butterfly Valve" (13) at the bottom. A "4" Panic Line" (10) exits from the right side of the expansion chamber, labeled "150'". A "LP Butterfly Valve" (8) and a "LP Valve" (9) are also shown on the right side. The system is connected to a "To Shale Shaker" line at the top and a "150' to Flare" line on the right.

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 manufacturer: No

M I D W E S T
HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT			
Customer: CACTUS		P.O. Number: RIG #123	
Asset # M10761			
HOSE SPECIFICATIONS			
Type: CHOKER LINE		Length: 35'	
I.D. 4" INCHES		O.D. 8" INCHES	
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000 PSI		BURST PRESSURE PSI
COUPLINGS			
Type of End Fitting 4 1/16 10K FLANGE			
Type of Coupling: SWEDGED		MANUFACTURED BY MIDWEST HOSE & SPECIALTY	
PROCEDURE			
<i>Hose assembly pressure tested with water at ambient temperature.</i>			
TIME HELD AT TEST PRESSURE 1 MIN.		ACTUAL BURST PRESSURE: 0 PSI	
COMMENTS: SN#90087 M10761 Hose is covered with stainless steel armour cover and wrapped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes			
Date: 6/6/2011	Tested By: BOBBY FINK		Approved: MENDI JACKSON



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: CACTUS

SALES ORDER# 90067

Hose Specifications

Hose Type

C & K

Length

35'

I.D.

4"

O.D.

8"

Verification

Type of Fitting

4 1/16 10K

Coupling Method

Swage

Die Size

6.62"

Final O.D.

6.68"

Working Pressure

10000 PSI

Burst Pressure

Standard Safety Multiplier Applies

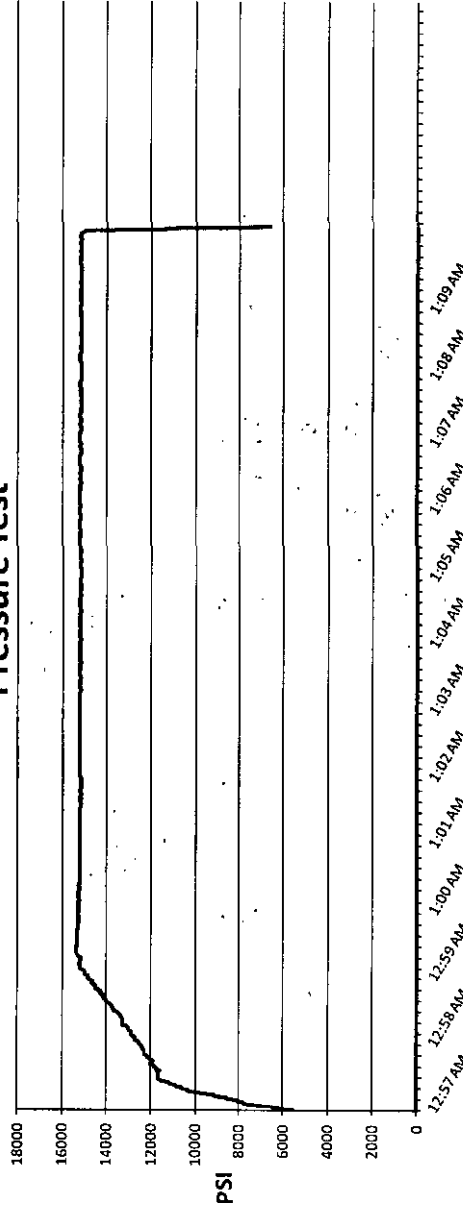
Hose Serial #

90067

Hose Assembly Serial #

90067

Pressure Test



Test Pressure

15000 PSI

Time Held at Test Pressure

11 1/4 Minutes

Actual Burst Pressure

15439 PSI

Peak Pressure

15439 PSI

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

Tested By: Bobby Fink

Approved By: Mendi Jackson

Mendi Jackson

EOG Resources
Javelina 30 Fed #602H

Well Site Diagram

