

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS FIELD

JUN 12 2013

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

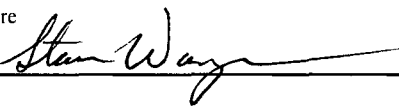
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER		7. Unit or CA Agreement Name and No.	
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. <39955> Whirling Wind 14 Fed Com 1H	
2. Name of Operator EOG Resources, Inc.		9. API Well No. 30-025- 41212	
3a. Address P.O. Box 2267 Midland, TX 79702	3b. Phone No. (include area code) 432-686-3689	10. Field and Pool, or Exploratory Red Hills Upper Bone Spring Shale <47900>	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 150' FNL & 170' FEL, U/L A (NENE), Sec 14, 26S, 33E At proposed prod. zone 2411' FSL & 380' FEL, U/L I (NESE), Sec 2, 26S, 33E		11. Sec., T., R., M., or Blk. and Survey of Area Sec 14, T26S, R33E	
14. Distance in miles and direction from nearest town or post office* Approximately +/- 27 miles Southwest from Jal, NM		12. County or Parish Lea	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 150' OL, 330' PP	16. No. of Acres in lease 1280 Fed, 320 St	17. Spacing Unit dedicated to this well 240 ac	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1st well	19. Proposed Depth 17251' MD, 9580' TVD	20. BLM/BIA Bond No. on file NM 2308	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3337' GL	22. Approximate date work will start* 9/1/2013	23. Estimated duration 30 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 4/18/13
Title Regulatory Analyst		
Approved by (Signature) /s/ James Stovall	Name (Printed/Typed)	Date JUN 7 2013
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

KJ
06/13/13

dm

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

JUN 18 2013

EOG RESOURCES, INC.
WHIRLING WIND 14 FED COM NO. 1H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	900'
Top of Salt	1,255'
Base of Salt	4,900'
Lamar	5,167'
Bell Canyon	5,200'
Cherry Canyon	6,250'
Brushy Canyon	7,875'
Bone Spring Lime	9,336'
TD	9,580'

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

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,250'	Oil
Brushy Canyon	7,875'	Oil
Bone Spring Lime	9,336'	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 ~~940'~~ ^{965'} and circulating cement back to surface.

4. CASING PROGRAM - NEW

See
COK

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 940' ^{965'}	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'-5,100'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0'-17,251'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

EOG RESOURCES, INC.
WHIRLING WIND 14 FED COM NO. 1H

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
940', 965'	300	13.5	1.73	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	Tail: Class C + 0.005 pps Static Free + 1% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
5,100'	850	12.7	2.22	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)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
17,251'	225	10.8	3.68	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 @ 4600')
	275	11.8	2.38	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
	2050	14.2	1.28	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 25% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Sic
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.

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.
WHIRLING WIND 14 FED COM NO. 1H

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:

The applicable depths and properties of the drilling fluid systems are as follows. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

See
COA

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 940' ^{965'}	Fresh Water Gel	8.6-8.8	28-34	N/c
940' - 5,100'	Saturated Brine	10.0-10.2	28-34	N/c
5,100' - 8,972'	Cut Brine Water	8.5-9.3	28-34	N/c
8,972' - 17,251' 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.

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.

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 from kick off point to surface.

EOG RESOURCES, INC.
WHIRLING WIND 14 FED COM NO. 1H

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

The estimated bottom-hole temperature (BHT) at TD is 156 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4148 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.

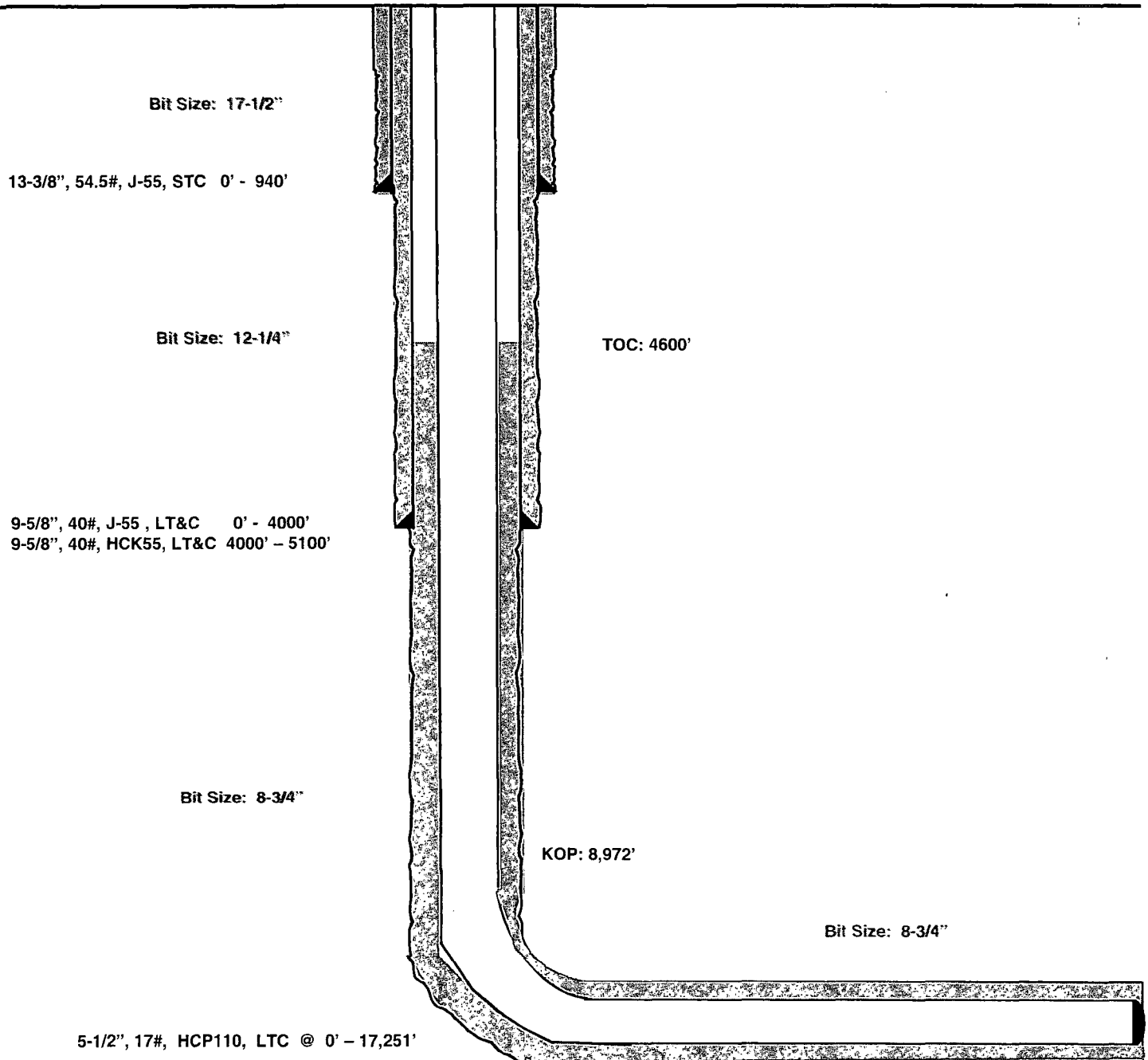
Whirling Wind 14 Fed Com #1H
Red Hills
Lea County, New Mexico

150' FNL
170' FEL
Section 14
T-26-S, R-33-E

Proposed Wellbore

API: 30-025-

KB: 3,367'
GL: 3,337'



Lateral: 17,251' MD, 9,580' TVD

BH Location: 2411' FSL & 380' FEL
Section 2
T-26-S, R-33-E



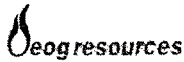
Cactus 123

Eog Resources

REV 0



WELL: Whirling Winds 14 Fed Com 1H				FIELD: Lea County, NM (NAD 27)				STRUCTURE: Cactus 123			
Main Data Parameters				Surface Location				Miscellaneous			
Model:	BURGL 2012	Dip:	99.942°	Date:	April 09, 2013	Lat:	N 32 1 0.519	North:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Strat:	Whirling Winds 14 Fed Com 1H
		Mag Dec:	7.436°	Inc:	45310m	Long:	W 103 32 4.824	East:	742361.00 US	Scale:	Rev 004 9Apr13



EOG Whirling Winds 14 Fed Com 1H Rev0 mcs 9Apr13 Proposal Geodetic Report (Def Plan)



Report Date: April 09, 2013 - 02:47 PM
Client: Eog Resources
Field: NM Lea County (NAD 27)
Structure / Slot: EOG Whirling Winds 14 Fed Com 1H / EOG Whirling Winds 14 Fed Com 1H
Well: EOG Whirling Winds 14 Fed Com 1H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: EOG Whirling Winds 14 Fed Com 1H Rev0 mcs 9Apr13
Survey Date: April 09, 2013
Tort / AHD / DDI / ERD Ratio: 110.338 * / 7932.725 ft / 6.198 / 0.828
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 3' 0.61867", W 103° 32' 4.82370"
Location Grid N/E Y/X: N 382893.000 NUS, E 747449.000 NUS
CRS Grid Convergence Angle: 0.4238 *
Grid Scale Factor: 0.99997922

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 358.042 * (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3367.000 ft above
Seabed / Ground Elevation: 3337.000 ft above
Magnetic Declination: 7.436 *
Total Gravity Field Strength: 998.4784mgm (9.80665 Based)
Total Magnetic Field Strength: 48309.999 nT
Magnetic Dip Angle: 59.942 *
Declination Date: April 09, 2013
Magnetic Declination Model: BGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.4238 *
Total Corr Mag North->Grid North: 7.0125 *
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	275.00	0.00	-3367.00	0.00	0.00	0.00	N/A	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	100.00	0.00	275.00	100.00	-3267.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	200.00	0.00	275.00	200.00	-3167.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	300.00	0.00	275.00	300.00	-3067.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	400.00	0.00	275.00	400.00	-2967.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	500.00	0.00	275.00	500.00	-2867.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	600.00	0.00	275.00	600.00	-2767.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	700.00	0.00	275.00	700.00	-2667.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	800.00	0.00	275.00	800.00	-2567.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	900.00	0.00	275.00	900.00	-2467.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
1000.00	0.00	275.00	1000.00	-2367.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
1100.00	0.00	275.00	1100.00	-2267.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
1200.00	0.00	275.00	1200.00	-2167.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
1300.00	0.00	275.00	1300.00	-2067.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
1400.00	0.00	275.00	1400.00	-1967.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
1500.00	0.00	275.00	1500.00	-1867.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
1600.00	0.00	275.00	1600.00	-1767.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
1700.00	0.00	275.00	1700.00	-1667.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
1800.00	0.00	275.00	1800.00	-1567.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
1900.00	0.00	275.00	1900.00	-1467.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
2000.00	0.00	275.00	2000.00	-1367.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
2100.00	0.00	275.00	2100.00	-1267.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
2200.00	0.00	275.00	2200.00	-1167.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
2300.00	0.00	275.00	2300.00	-1067.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
2400.00	0.00	275.00	2400.00	-967.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
2500.00	0.00	275.00	2500.00	-867.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
2600.00	0.00	275.00	2600.00	-767.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
2700.00	0.00	275.00	2700.00	-667.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
2800.00	0.00	275.00	2800.00	-567.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
2900.00	0.00	275.00	2900.00	-467.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
3000.00	0.00	275.00	3000.00	-367.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
3100.00	0.00	275.00	3100.00	-267.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
3200.00	0.00	275.00	3200.00	-167.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
3300.00	0.00	275.00	3300.00	-67.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
3400.00	0.00	275.00	3400.00	33.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
3500.00	0.00	275.00	3500.00	133.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
3600.00	0.00	275.00	3600.00	233.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
3700.00	0.00	275.00	3700.00	333.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
3800.00	0.00	275.00	3800.00	433.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
3900.00	0.00	275.00	3900.00	533.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
4000.00	0.00	275.00	4000.00	633.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
4100.00	0.00	275.00	4100.00	733.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
4200.00	0.00	275.00	4200.00	833.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
4300.00	0.00	275.00	4300.00	933.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
4400.00	0.00	275.00	4400.00	1033.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
4500.00	0.00	275.00	4500.00	1133.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
4600.00	0.00	275.00	4600.00	1233.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
4700.00	0.00	275.00	4700.00	1333.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
4800.00	0.00	275.00	4800.00	1433.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
4900.00	0.00	275.00	4900.00	1533.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
5000.00	0.00	275.00	5000.00	1633.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
5100.00	0.00	275.00	5100.00	1733.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
5200.00	0.00	275.00	5200.00	1833.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
5300.00	0.00	275.00	5300.00	1933.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
5400.00	0.00	275.00	5400.00	2033.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
5500.00	0.00	275.00	5500.00	2133.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
5600.00	0.00	275.00	5600.00	2233.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
5700.00	0.00	275.00	5700.00	2333.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
5800.00	0.00	275.00	5800.00	2433.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
5900.00	0.00	275.00	5900.00	2533.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
6000.00	0.00	275.00	6000.00	2633.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
6100.00	0.00	275.00	6100.00	2733.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
6200.00	0.00	275.00	6200.00	2833.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
6300.00	0.00	275.00	6300.00	2933.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
6400.00	0.00	275.00	6400.00	3033.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
6500.00	0.00	275.00	6500.00	3133.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
6600.00	0.00	275.00	6600.00	3233.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
6700.00	0.00	275.00	6700.00	3333.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
6800.00	0.00	275.00	6800.00	3433.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82	
6900.00	0.00	275.00											

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7900.00	0.00	275.00	7900.00	4533.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	8000.00	0.00	275.00	8000.00	4633.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	8100.00	0.00	275.00	8100.00	4733.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	8200.00	0.00	275.00	8200.00	4833.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	8300.00	0.00	275.00	8300.00	4933.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	8400.00	0.00	275.00	8400.00	5033.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	8500.00	0.00	275.00	8500.00	5133.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	8600.00	0.00	275.00	8600.00	5233.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	8700.00	0.00	275.00	8700.00	5333.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	8800.00	0.00	275.00	8800.00	5433.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	8900.00	0.00	275.00	8900.00	5533.00	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
KOP Build 12"/100ft DLS	8972.23	0.00	275.00	8972.23	5605.23	0.00	0.00	0.00	0.00	382893.00	747449.00	N 32 3 0.62	W 103 32 4.82
	9000.00	3.33	275.00	8999.98	5632.58	0.10	0.07	-0.80	12.00	382893.07	747448.20	N 32 3 0.62	W 103 32 4.83
Turn 12"/100ft DLS	9100.00	15.33	275.00	9098.48	5731.48	2.06	1.48	-16.93	12.00	382894.48	747432.07	N 32 3 0.63	W 103 32 5.02
	9158.90	22.40	275.00	9154.18	5787.18	4.36	3.14	-35.89	12.00	382896.14	747413.11	N 32 3 0.65	W 103 32 5.24
	9200.00	23.33	287.49	9192.07	5825.07	8.03	6.27	-51.46	12.00	382899.27	747397.54	N 32 3 0.68	W 103 32 5.42
	9300.00	28.98	311.78	9282.05	5915.05	31.45	28.45	-88.55	12.00	382921.44	747360.45	N 32 3 0.91	W 103 32 5.85
	9400.00	37.53	327.29	9365.75	5998.75	74.54	70.37	-123.20	12.00	382963.37	747325.80	N 32 3 1.32	W 103 32 6.25
	9500.00	47.42	337.43	9439.51	6072.51	135.39	130.21	-153.90	12.00	383023.21	747295.10	N 32 3 1.92	W 103 32 6.60
	9600.00	57.95	344.69	9500.10	6133.10	211.36	205.35	-179.32	12.00	383098.35	747269.69	N 32 3 2.66	W 103 32 6.89
	9700.00	58.80	350.42	9544.87	6177.87	299.12	292.51	-198.33	12.00	383165.51	747250.68	N 32 3 3.53	W 103 32 7.10
Landing Point	9800.00	79.83	355.36	9571.88	6204.88	354.84	387.88	-210.11	12.00	383280.88	747236.90	N 32 3 4.47	W 103 32 7.23
	9891.71	90.00	359.58	9560.00	6213.00	485.04	475.00	-214.11	12.00	383371.99	747234.89	N 32 3 5.37	W 103 32 7.27
	9900.00	90.00	359.58	9560.00	6213.00	494.33	487.29	-214.17	0.01	383380.28	747234.83	N 32 3 5.46	W 103 32 7.27
	10000.00	90.00	359.58	9560.00	6213.00	584.29	587.29	-214.90	0.00	383480.28	747234.10	N 32 3 6.45	W 103 32 7.27
	10100.00	90.00	359.58	9560.00	6213.00	694.26	687.29	-215.64	0.00	383580.27	747233.37	N 32 3 7.44	W 103 32 7.27
	10200.00	90.00	359.58	9560.00	6213.00	794.22	787.29	-216.37	0.00	383680.27	747232.64	N 32 3 8.43	W 103 32 7.27
	10300.00	90.00	359.58	9560.00	6213.00	894.18	887.28	-217.10	0.00	383780.26	747231.90	N 32 3 9.41	W 103 32 7.27
	10400.00	90.00	359.58	9560.00	6213.00	994.15	987.28	-217.83	0.00	383880.25	747231.17	N 32 3 10.40	W 103 32 7.27
	10500.00	90.00	359.58	9560.00	6213.00	1094.11	1087.28	-218.56	0.00	383980.25	747230.44	N 32 3 11.39	W 103 32 7.27
	10600.00	90.00	359.58	9560.00	6213.00	1194.08	1187.28	-219.30	0.00	384080.25	747229.71	N 32 3 12.38	W 103 32 7.27
	10700.00	90.00	359.58	9560.00	6213.00	1294.04	1287.27	-220.03	0.00	384180.24	747228.98	N 32 3 13.37	W 103 32 7.27
	10800.00	90.00	359.58	9560.00	6213.00	1394.00	1387.27	-220.76	0.00	384280.24	747228.24	N 32 3 14.36	W 103 32 7.27
	10900.00	90.00	359.58	9560.00	6213.00	1493.97	1487.27	-221.49	0.00	384380.23	747227.51	N 32 3 15.35	W 103 32 7.27
	11000.00	90.00	359.58	9560.00	6213.00	1593.93	1587.27	-222.23	0.00	384480.23	747226.76	N 32 3 16.34	W 103 32 7.27
	11100.00	90.00	359.58	9560.00	6213.00	1693.90	1687.26	-222.96	0.00	384580.22	747226.05	N 32 3 17.33	W 103 32 7.27
	11200.00	90.00	359.58	9560.00	6213.00	1793.86	1787.26	-223.69	0.00	384680.22	747225.31	N 32 3 18.32	W 103 32 7.27
	11300.00	90.00	359.58	9560.00	6213.00	1893.82	1887.26	-224.42	0.00	384780.21	747224.58	N 32 3 19.31	W 103 32 7.27
	11400.00	90.00	359.58	9560.00	6213.00	1993.79	1987.25	-225.16	0.00	384880.21	747223.85	N 32 3 20.30	W 103 32 7.27
	11500.00	90.00	359.58	9560.00	6213.00	2093.75	2087.25	-225.89	0.00	384980.20	747223.12	N 32 3 21.29	W 103 32 7.27
	11600.00	90.00	359.58	9560.00	6213.00	2193.72	2187.25	-226.62	0.00	385080.20	747222.38	N 32 3 22.28	W 103 32 7.27
	11700.00	90.00	359.58	9560.00	6213.00	2293.68	2287.25	-227.35	0.00	385180.19	747221.65	N 32 3 23.27	W 103 32 7.27
	11800.00	90.00	359.58	9560.00	6213.00	2393.64	2387.24	-228.09	0.00	385280.19	747220.92	N 32 3 24.26	W 103 32 7.27
	11900.00	90.00	359.58	9560.00	6213.00	2493.61	2487.24	-228.82	0.00	385380.18	747220.19	N 32 3 25.25	W 103 32 7.27
	12000.00	90.00	359.58	9560.00	6213.00	2593.57	2587.24	-229.55	0.00	385480.18	747219.46	N 32 3 26.24	W 103 32 7.27
	12100.00	90.00	359.58	9560.00	6213.00	2693.54	2687.24	-230.28	0.00	385580.17	747218.72	N 32 3 27.23	W 103 32 7.27
	12200.00	90.00	359.58	9560.00	6213.00	2793.50	2787.23	-231.01	0.00	385680.17	747217.99	N 32 3 28.22	W 103 32 7.27
	12300.00	90.00	359.58	9560.00	6213.00	2893.46	2887.23	-231.75	0.00	385780.16	747217.26	N 32 3 29.21	W 103 32 7.27
	12400.00	90.00	359.58	9560.00	6213.00	2993.43	2987.23	-232.48	0.00	385880.16	747216.53	N 32 3 30.20	W 103 32 7.27
	12500.00	90.00	359.58	9560.00	6213.00	3093.39	3087.22	-233.21	0.00	385980.15	747215.79	N 32 3 31.19	W 103 32 7.27
	12600.00	90.00	359.58	9560.00	6213.00	3193.36	3187.22	-233.94	0.00	386080.15	747215.06	N 32 3 32.17	W 103 32 7.27
	12700.00	90.00	359.58	9560.00	6213.00	3293.32	3287.22	-234.68	0.00	386180.14	747214.33	N 32 3 33.16	W 103 32 7.27
	12800.00	90.00	359.58	9560.00	6213.00	3393.28	3387.22	-235.41	0.00	386280.14	747213.60	N 32 3 34.15	W 103 32 7.27
	12900.00	90.00	359.58	9560.00	6213.00	3493.25	3487.21	-236.14	0.00	386380.13	747212.86	N 32 3 35.14	W 103 32 7.27
	13000.00	90.00	359.58	9560.00	6213.00	3593.21	3587.21	-236.87	0.00	386480.13	747212.13	N 32 3 36.13	W 103 32 7.27
	13100.00	90.00	359.58	9560.00	6213.00	3693.17	3687.21	-237.61	0.00	386580.12	747211.40	N 32 3 37.12	W 103 32 7.27
	13200.00	90.00	359.58	9560.00	6213.00	3793.14	3787.21	-238.34	0.00	386680.12	747210.67	N 32 3 38.11	W 103 32 7.27
	13300.00	90.00	359.58	9560.00	6213.00	3893.10	3887.20	-239.07	0.00	386780.11	747209.93	N 32 3 39.10	W 103 32 7.27
	13400.00	90.00	359.58	9560.00	6213.00	3993.07	3987.20	-239.80	0.00	386880.11	747209.20	N 32 3 40.09	W 103 32 7.27
	13500.00	90.00	359.58	9560.00	6213.00	4093.03	4087.20	-240.54	0.00	386980.10	747208.47	N 32 3 41.08	W 103 32 7.27
	13600.00	90.00	359.58	9560.00	6213.00	4192.99	4187.20	-241.27	0.00	387080.10	747207.74	N 32 3 42.07	W 103 32 7.27
	13700.00	90.00	359.58	9560.00	6213.00	4292.96	4287.19	-242.00	0.00	387180.10	747207.01	N 32 3 43.06	W 103 32 7.27
	13800.00	90.00	359.58	9560.00	6213.00	4392.92	4387.19	-242.73	0.00	387280.09	747206.27	N 32 3 44.05	W 103 32 7.27
	13900.00	90.00	359.58	9560.00	6213.00	4492.89	4487.19	-243.46	0.00	387380.09	747205.54	N 32 3 45.04	W 103 32 7.27
	14000.00	90.00	359.58	9560.00	6213.00	4592.85	4587.18	-244.20	0.00	387480.08	747204.81	N 32 3 46.03	W 103 32 7.27
	14100.00	90.00	359.58	9560.00	6213.00	4692.81	4687.18	-244.93	0.00	387580.08	747204.08	N 32 3 47.02	W 103 32 7.27
	14200.00	90.00	359.58	9560.00	6213.00	4792.78	4787.18	-245.66	0.00	387680.07	747203.34	N 32 3 48.01	W 103 32 7.27
	14300.00	90.00	359.58	9560.00	6213.00	4892.74	4887.18	-246.39	0.00	387780.07	747202.61	N 32 3 49.00	W 103 32 7.27
	14400.00	90.00	359.58	9560.00	6213.00	4992.71	4987.17	-247.13	0.00	387880.06	747201.88	N 32 3 49.99	W 103 32 7.27
	14500.00	90.00	359.58	9560.00	6213.00	5092.67	5087.17	-247.86	0.00	387980.06	747201.15	N 32 3 50.98	W 103 32 7.27
	14600.00	90.00	359.58	9560.00	6213.00	5192.63	5187.17	-248.59	0.00	388080.05	747200.41	N 32 3 51.97	W 103 32 7.27
	14700.00	90											

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (7100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
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Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EDU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	30.000	1/100.000	30.000	30.000	SLB_MWD-STD-Depth Only	Original Borehole / EOG Whirling Winds 14 Fed Com 1H Rev0 mcs
	30.000	17251.081	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / EOG Whirling Winds 14 Fed Com 1H Rev0 mcs

EOG RESOURCES, INC.
WHIRLING WIND 14 FED COM #1H

ATTACHMENT TO EXHIBIT #1

1. Wear ring to be properly installed in head.
2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1.
3. All fittings to be flanged
4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
5. All choke and fill lines to be securely anchored especially ends of choke lines.
6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
7. Kelly cock on kelly.
8. Extension wrenches and hand wheels to be properly installed.
9. Blow out preventer control to be located as close to driller's position as feasible.
10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

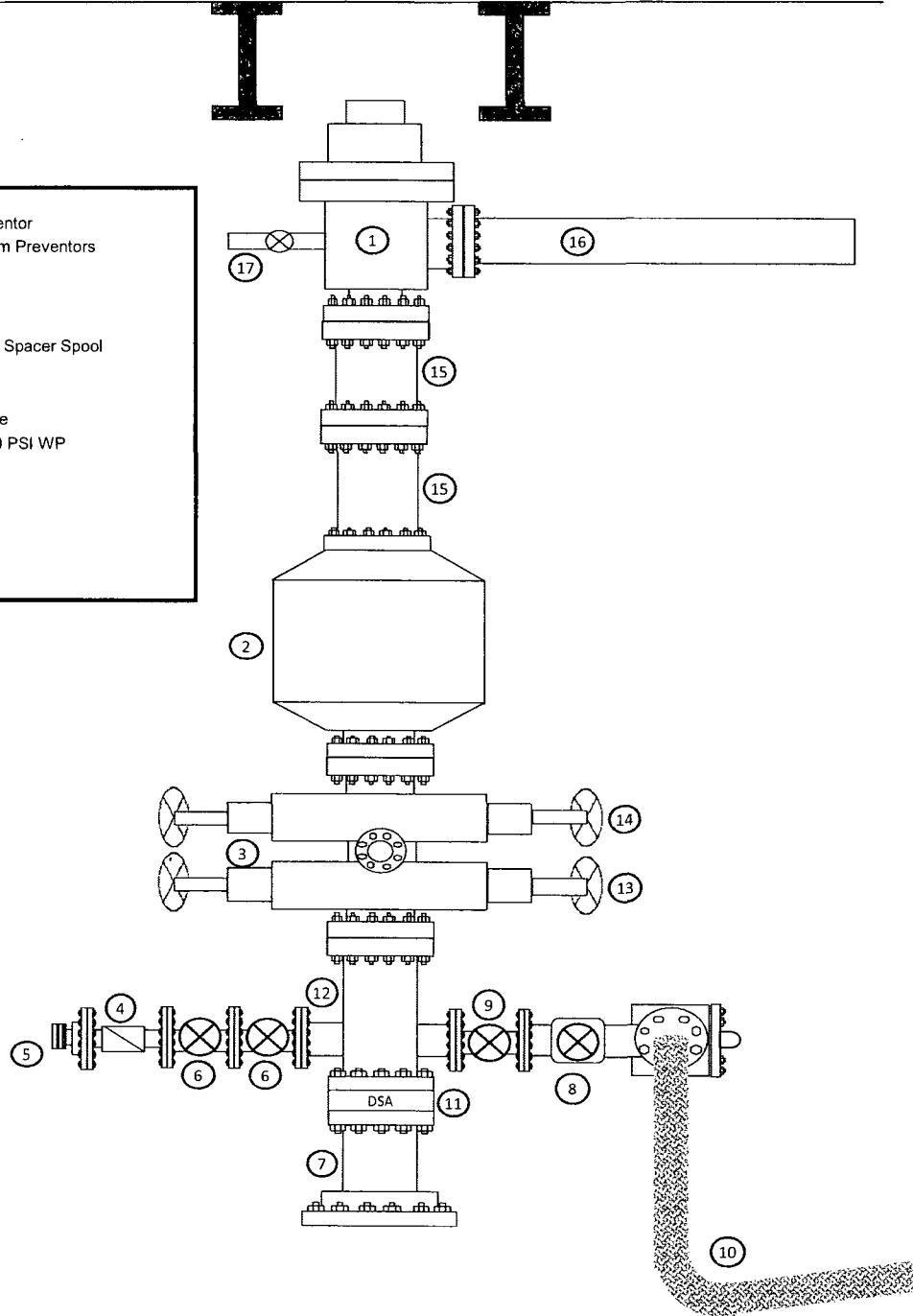
Exhibit 1

EOG Resources

10M BOPE

Rig Floor

1. 13 5/8" Rotating Head
2. Hydril 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. 8" OD x 4" ID 10,000 PSI WP 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" 5,000 PSI WP Spacer Spools
16. Flow Line
17. 2" Fill Line



EOG Resources

- # EOG Resources 10M 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 Hyrdraulic 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 10M BOPE system. At the top, a horizontal line with an arrow pointing right is labeled "To Shale Shaker". Below this, a circular "Mud Gas Separator" is shown. A line labeled "150' to Flare" exits the separator. A vertical line, labeled "7" (Expansion Chamber), runs down the right side of the diagram. On the left, a horizontal line with an arrow pointing right is labeled "150'". A vertical line with an arrow pointing up is labeled "10" (Panic Line). The system includes various valves and lines, numbered 1 through 13, corresponding to the legend. The legend lists: 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 Hyrdraulic 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.

MIDWEST
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#90067 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

WPH-000007-10-10-0001

Customer: CACTUS

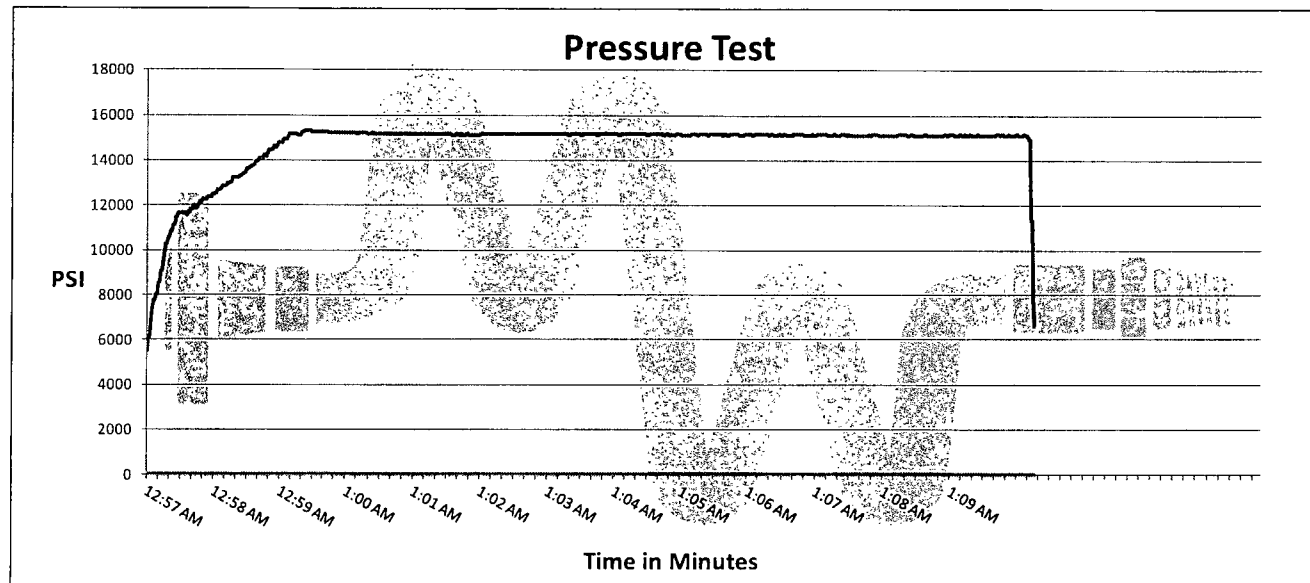
SALES ORDER# 90067

Hose Specifications

<u>Hose Type</u>	<u>Length</u>
C & K	35'
<u>I.D.</u>	<u>O.D.</u>
4"	8"
<u>Working Pressure</u>	<u>Burst Pressure</u>
10000 PSI	Standard Safety Multiplier Applies

Verification

<u>Type of Fitting</u>	<u>Coupling Method</u>
4 1/16 10K	Swage
<u>Die Size</u>	<u>Final O.D.</u>
6.62"	6.68"
<u>Hose Serial #</u>	<u>Hose Assembly Serial #</u>
	90067



Test Pressure
15000 PSI

Time Held at Test Pressure
11 1/4 Minutes

Actual Burst Pressure

Peak Pressure
15439 PSI

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

Tested By: Bobby Fink

Approved By: Mendi Jackson

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

Closure Plan for Closed Loop Drilling System

1. METHODS OF HANDLING WASTE MATERIALS

- a. Drill cuttings shall be disposed of in steel cuttings bins (catch tanks) on the drilling pad (behind the steel mud tanks). The bin and cuttings shall be hauled to a division approved facility by an approved transporter. At the facility, the cuttings shall be removed from the bin and the bin shall be returned to the drilling site for reuse, moved to the next drilling site or returned to the provider.
- b. Remaining drilling fluids shall be hauled off by approved transports to a division approved disposal facility. Water produced during completion shall be put in storage tanks and disposed of at a division approved facility. Oil and condensate produced shall be put in a storage tank and sold or put in a sales pipeline.

2. RECLAMATION

- a. Within 120 days after the drilling and completion of the well, the location area shall be reduced as determined by operator to the minimum area necessary to safely and effectively operate the well. The reclaimed location area shall be restored to the condition that existed prior to oil and gas operations.

19.15.17.12 OPERATIONAL REQUIREMENTS:

A. General specifications. An operator shall maintain and operate a pit, closed-loop system, below-grade tank or sump in accordance with the following requirements.

(1) The operator shall operate and maintain a pit, closed-loop system, below-grade tank or sump to contain liquids and solids and maintain the integrity of the liner, liner system or secondary containment system, prevent contamination of fresh water and protect public health and the environment.

Operator shall operate and maintain a closed loop system.

(2) The operator shall recycle, reuse or reclaim all drilling fluids in a manner that prevents the contamination of fresh water and protects public health and the environment.

Operator shall recycle, reuse or reclaim all drilling fluids used. Excess or unused fluid shall be disposed of at division approved facilities.

(3) The operator shall not discharge into or store any hazardous waste in a pit, closed-loop system, below-grade tank or sump.

Operator shall not knowingly discharge hazardous waste into the closed loop system.

(4) If the integrity of the pit liner is compromised, or if any penetration of the liner occurs above the liquid's surface, then the operator shall notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the liner.

No Pit liner. Closed loop system.

(5) If a lined pit develops a leak, or if any penetration of the liner occurs below the liquid's surface, then the operator shall remove all liquid above the damage or leak line from the pit within 48 hours and repair the damage or replace the liner.

No Pit liner. Closed loop system. If a leak develops in any of the closed loop tanks, all liquid shall be removed from the effected tank within 48 hours and any damage shall be repaired prior to putting the tank back in service.

(6) The operator shall install a level measuring device in a lined pit containing fluids to monitor the level of the fluid surface, so that the operator may recognize unanticipated change in volume of fluids.

No pit. Closed loop system. Excess fluid shall be removed appropriately from the catch tanks.

(7) The injection or withdrawal of liquids from a lined pit shall be accomplished through a header, diverter or other hardware that prevents damage to the liner by erosion, fluid jets or impact from installation and removal of hoses or pipes.

No pit. Closed loop system. Excess fluid shall be removed appropriately from the catch tanks using a re-circulating pump or vacuum trucks.

(8) The operator shall operate and install a pit, below-grade tank or sump to prevent the collection of surface water run-on.

Operator shall berm or collect surface water run- on and dispose of at a division approved facility.

(9) The operator shall install, or maintain on site, an oil absorbent boom or other device to contain and remove oil from a pit's surface.

Operator shall install a skimmer system on catch tanks, circulating tanks and over-flow tanks as needed to collect oil.