

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

ATS-11-53
FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

RESUBMITTAL

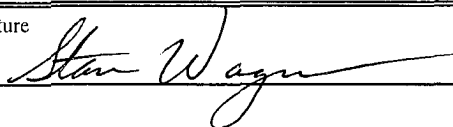
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. LC063621a (SL); NM063472 (BHL)
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.		7. Unit or CA Agreement Name and No.
3a. Address P.O. Box 2267 Midland, Texas 79702		8. Lease Name and Well No. Sand Tank 18 Fed Com 5H
3b. Phone No. (include area code) 432-686-3689		9. API Well No. 30-015-38959
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 530' FSL & 2310' FEL, U/L O, Sec 18, T18S, R30E At proposed prod. zone 430' FSL & 2310' FWL, U/L N, Sec 17, T18S, R30E		10. Field and Pool, or Exploratory Sand Tank; Bone Spring
14. Distance in miles and direction from nearest town or post office* Approximately 5 miles Southwest from Loco Hills, NM		11. Sec., T., R., M., or Blk. and Survey or Area Sec 18, T18S, R30E N.M.P.M.
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 430'	16. No. of Acres in lease 160	12. County or Parish Eddy
17. Spacing Unit dedicated to this well S/2 SE/4 (18); S/2 SW/4 (17)	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1350'	13. State NM
19. Proposed Depth 8260' TVD; 12532' MD	20. BLM/BIA Bond No. on file NM2308	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3511' GL	22. Approximate date work will start* 01/01/2011	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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the BLM

25. Signature 	Name (Printed/Typed) Stan Wagner	Date 10/13/10
Title Regulatory Analyst		
Approved by (Signautre) /s/ Don Peterson	Name (Printed/Typed) Name (Printed/Typed)	Date FEB - 9 2011
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)

Resubmittal; permit was previously approved September 4, 2008

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Roswell Controlled Water Basin

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

Permit Information:

Well Name: Sand Tank 18 Fed Com #5H

Location:

SL 530' FSL & 2310' FEL, Section 18, T-18-S, R-30-E, Eddy Co., N.M.

BHL 430' FSL & 2310' FWL, Section 17, T-18-S, R-30-E, Eddy Co., N.M.

Casing Program:*See COA*

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	385' 300'	14-3/4"	11-3/4"	42#	H-40	Surface
Intermediate	3,300'	11"	8-5/8"	32#	J-55	Surface
Production	12,532'	7-7/8"	5 1/2"	17#	N-80	Surface

*TOC 2800'**Per Operator 2-7-10**Dim***Cement Program:**

Depth	No. Sacks	Slurries:
385' 300'	500	Premium Plus C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
3,300'	555	Lead: 50:50 Poz C + 0.005 pps Static Free + 5% NaCl + 0.25 pps CelloFlake + 5 pps LCM-1 + 0.005 gps FP-6L + 10% Bentonite
	200	Tail: Premium Plus C + 0.005 pps Static Free + 1% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
12,532'	750	Lead: 50:50 Poz C + 0.005 pps Static Free + 5% NaCl + 0.25 pps CelloFlake + 5 pps LCM-1 + 0.005 gps FP-6L + 10% Bentonite
<i>rel COA</i>	750	Tail: 50:50 Poz H + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.1% R-3 + 0.2% CD-32 + 0.3% FL-52A

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 385' 300'	Fresh - Gel	8.6-8.8	28-34	N/c
<i>300'</i> 385' - 3,300'	Brine	10.0-10.2	28-34	N/c
3,300' - 7,000'	Fresh Water	8.4 - 8.6	28-34	N/c
7,000' - 7,500'	Cut Brine	8.8-9.6	28-34	N/c
7,500' - 8,250'	Cut Brine	8.8-9.6	28-34	10-15
7,633' - 12,532'	Cut Brine/ Polymer (Lateral)	8.8-9.6	40-45	10-25

EOG RESOURCES, INC.
Sand Tank 18 Fed Com 5H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	360'
San Andres	3,190'
1 st Bone Spring	7,040'
2 nd Bone Spring	7,815'

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

Upper Permian Sands	0- 200'	Fresh Water
Grayburg/ San Andres	3,190'	Oil
1 st Bone Spring	7,040'	Oil
2 nd Bone Spring	7,815'	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 11.75" casing at ~~385'~~ ^{300'} and circulating cement back to surface.

4. CASING PROGRAM-NEW

See COA

<u>Hole</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
14.750"	0- 385' 300'	11.75"	42#	H-40	ST&C	6.36	1.94	6.30
11.00"	0-3,300'	8.625"	32#	J-55	LT&C	1.70	1.94	4.01
7.875"	0-12,532'	5.5"	17#	N-80	LT&C	1.52	1.08	2.22

Cementing Program:

11.75" Surface Casing: Cement to surface, 500 sx Premium Plus C + 0.005 pps Static Free + 2% CaCl₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L, 14.8 ppg, 1.35 yield

8.625" Intermediate Casing: Cement to surface, Lead: 555 sx 50:50 Poz C + 0.005 pps Static Free + 5% NaCl + 0.25 pps CelloFlake + 5 pps LCM-1 + 0.005 gps FP-6L + 10% Bentonite, 11.8 ppg, 2.45 yield
 Tail: 200 sx Prem Plus C + 0.25 pps CelloFlake + 0.005 FP-6L + 1% CaCl₂, 14.8 ppg, 1.34 yield

5.50" Production Casing:

2800 per operator - 2/2/11

Cement to ~~2,700'~~ ^{2800'}, Lead: 750 sx 50:50 Poz C + 0.005 pps Static Free + 5% NaCl + 0.25 pps CelloFlake + 5

1.

EOG RESOURCES, INC.
Sand Tank 18 Fed Com 5H

pps LCM-1 + 0.005 gps FP-6L + 10% Bentonite, 11.8 ppg, 2.29 yield
Tail: 750 sx 50:50 Poz H + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.1% R-3 + 0.2% CD-32 + 0.3% FL-52A, 14.2 ppg, 1.30 yield

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOP's and accessory equipment will be tested in accordance with Onshore Oil & Gas order No. 2. for a 2M system prior to drilling out of the surface casing shoe and while drilling the intermediate section. Before drilling out of the intermediate casing, the ram- type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig.

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.

Hydraulically operated choke will not be installed prior to the setting and cementing of the intermediate casing string, but will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of brine, cut brine, and polymer mud system. The applicable depths and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	<u>Wt</u> <u>(PPG)</u>	<u>Viscosity</u> <u>(sec)</u>	<u>Waterloss</u> <u>(cc)</u>
0-385 300' - 300'	Fresh - Gel	8.6-8.8	28-34	N/c
300-385 300' - 3,300'	Brine	10.0-10.2	28-34	N/c
3,300'-7,000'	Fresh water	8.4-8.6	28-34	N/c
7,000'-7,500'	Cut Brine	8.8-9.6	28-34	N/c
7,500'-8,250'	Cut Brine	8.8-9.6	28-34	10-15
7,633'-12,532'	Polymer (Lateral)	8.8-9.6	40-45	10-25

EOG RESOURCES, INC.
Sand Tank 18 Fed Com 5H

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.

8. LOGGING, TESTING AND CORING PROGRAM: *See COA*

Electric logging will consist of GR-Dual Laterlog and GR-Compensated Density-Neutron from TD to surface casing with a GR- Compensated Neutron run from surface casing to surface and a borehole sonic and HRLA from TD to surface.

Electric logging will consist of GR-Dual Laterlog and GR-Compensated Density-Neutron from TD to intermediate casing with a GR- Compensated Neutron run from intermediate casing to surface and a borehole sonic from TD to intermediate casing.

Possible sidewall cores based on shows.

Possible FMI.

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

The estimated bottom hole temperature (BHT) at TD is 165 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3500 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 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Sand Tank 18 Fed Com #5H
Company:	Midland - New Mexico	TVD Reference:	WELL @ 3530.00ft (Original Well Elev)
Project:	Sand Tank (Bone Spring)	MD Reference:	WELL @ 3530.00ft (Original Well Elev)
Site:	Sand Tank 18 Fed Com #5H	North Reference:	Grid
Well:	Sand Tank 18 Fed Com #5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Sand Tank 18 Fed Com #5H		
Design:	Original Plan		

Project	Sand Tank (Bone Spring), Eddy County, NM		
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	Sand Tank 18 Fed Com #5H				
Site Position:		Northing:	633,659.00ft	Latitude:	32° 44' 29.780 N
From:	Map	Easting:	599,501.40ft	Longitude:	104° 0' 35.009 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.18 ?

Well	Sand Tank 18 Fed Com #5H					
Well Position	+N/-S	0.00 ft	Northing:	633,659.00 ft	Latitude:	32° 44' 29.780 N
	+E/-W	0.00 ft	Easting:	599,501.40 ft	Longitude:	104° 0' 35.009 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,511.00ft

Wellbore	Sand Tank 18 Fed Com #5H				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(?)	(?)	(nT)
	IGRF2000	12/31/2004	8.81	60.84	49,683

Design	Original Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(?)
	8,260.00	0.00	0.00	91.18

Plan Sections										
Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)	TFO (?)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,633.00	0.00	0.00	7,633.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,373.75	88.00	91.17	8,115.00	-9.50	465.36	11.88	11.88	0.00	91.17	
8,373.96	88.00	91.18	8,115.01	-9.51	465.57	3.00	0.84	2.88	73.68	
12,532.05	88.00	91.18	8,259.99	-94.80	4,620.26	0.00	0.00	0.00	0.00	
12,532.20	88.00	91.18	8,260.00	-94.80	4,620.41	3.00	-1.21	2.74	113.88	BHL (ST 18 #5H)

EOG Resources Inc

Planning Report

Database: EDM
 Company: Midland - New Mexico
 Project: Sand Tank (Bone Spring)
 Site: Sand Tank 18 Fed Com #5H
 Well: Sand Tank 18 Fed Com #5H
 Wellbore: Sand Tank 18 Fed Com #5H
 Design: Original Plan

Local Co-ordinate Reference: Well Sand Tank 18 Fed Com #5H
 TVD Reference: WELL @ 3530.00ft (Original Well Elev)
 MD Reference: WELL @ 3530.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

EOG Resources Inc

Planning Report

Database: EDM
Company: Midland - New Mexico
Project: Sand Tank (Bone Spring)
Site: Sand Tank 18 Fed Corn #5H
Well: Sand Tank 18 Fed Corn #5H
Wellbore: Sand Tank 18 Fed Corn #5H
Design: Original Plan

Local Co-ordinate Reference: Well Sand Tank 18 Fed Corn #5H
TVD Reference: WELL @ 3530.00ft (Original Well Elev)
MD Reference: WELL @ 3530.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,633.00	0.00	0.00	7,633.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	7.96	91.17	7,699.78	-0.09	4.65	4.65	11.88	11.88	0.00
7,800.00	19.84	91.17	7,796.68	-0.58	28.62	28.63	11.88	11.88	0.00
7,900.00	31.72	91.17	7,886.57	-1.47	72.02	72.04	11.88	11.88	0.00
8,000.00	43.60	91.17	7,965.59	-2.72	133.00	133.02	11.88	11.88	0.00
8,100.00	55.48	91.17	8,030.37	-4.27	208.93	208.97	11.88	11.88	0.00
8,200.00	67.36	91.17	8,078.13	-6.06	296.57	296.63	11.88	11.88	0.00
8,300.00	79.24	91.17	8,106.81	-8.01	392.16	392.24	11.88	11.88	0.00
8,373.75	88.00	91.17	8,115.00	-9.50	465.36	465.46	11.88	11.88	0.00
8,373.96	88.00	91.18	8,115.01	-9.51	465.57	465.67	3.00	0.84	2.88
8,400.00	88.00	91.18	8,115.92	-10.04	491.59	491.70	0.00	0.00	0.00
8,500.00	88.00	91.18	8,119.40	-12.09	591.51	591.64	0.00	0.00	0.00
8,600.00	88.00	91.18	8,122.89	-14.14	691.43	691.57	0.00	0.00	0.00
8,700.00	88.00	91.18	8,126.38	-16.20	791.35	791.51	0.00	0.00	0.00
8,800.00	88.00	91.18	8,129.86	-18.25	891.27	891.45	0.00	0.00	0.00
8,900.00	88.00	91.18	8,133.35	-20.30	991.18	991.39	0.00	0.00	0.00
9,000.00	88.00	91.18	8,136.84	-22.35	1,091.10	1,091.33	0.00	0.00	0.00
9,100.00	88.00	91.18	8,140.32	-24.40	1,191.02	1,191.27	0.00	0.00	0.00
9,200.00	88.00	91.18	8,143.81	-26.45	1,290.94	1,291.21	0.00	0.00	0.00
9,300.00	88.00	91.18	8,147.30	-28.50	1,390.86	1,391.15	0.00	0.00	0.00
9,400.00	88.00	91.18	8,150.78	-30.55	1,490.77	1,491.09	0.00	0.00	0.00
9,500.00	88.00	91.18	8,154.27	-32.61	1,590.69	1,591.03	0.00	0.00	0.00
9,600.00	88.00	91.18	8,157.76	-34.66	1,690.61	1,690.97	0.00	0.00	0.00
9,700.00	88.00	91.18	8,161.24	-36.71	1,790.53	1,790.91	0.00	0.00	0.00
9,800.00	88.00	91.18	8,164.73	-38.76	1,890.45	1,890.84	0.00	0.00	0.00
9,900.00	88.00	91.18	8,168.22	-40.81	1,990.37	1,990.78	0.00	0.00	0.00
10,000.00	88.00	91.18	8,171.71	-42.86	2,090.28	2,090.72	0.00	0.00	0.00
10,100.00	88.00	91.18	8,175.19	-44.91	2,190.20	2,190.66	0.00	0.00	0.00
10,200.00	88.00	91.18	8,178.68	-46.96	2,290.12	2,290.60	0.00	0.00	0.00
10,300.00	88.00	91.18	8,182.17	-49.01	2,390.04	2,390.54	0.00	0.00	0.00

EOG Resources Inc

Planning Report

Database: EDM
Company: Midland - New Mexico
Project: Sand Tank (Bone Spring)
Site: Sand Tank 18 Fed Com #5H
Well: Sand Tank 18 Fed Com #5H
Wellbore: Sand Tank 18 Fed Com #5H
Design: Original Plan

Local Co-ordinate Reference: Well Sand Tank 18 Fed Com #5H
TVD Reference: WELL @ 3530.00ft (Original Well Elev)
MD Reference: WELL @ 3530.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
10,400.00	88.00	91.18	8,185.65	-51.07	2,489.96	2,490.48	0.00	0.00	0.00
10,500.00	88.00	91.18	8,189.14	-53.12	2,589.87	2,590.42	0.00	0.00	0.00
10,600.00	88.00	91.18	8,192.63	-55.17	2,689.79	2,690.36	0.00	0.00	0.00
10,700.00	88.00	91.18	8,196.11	-57.22	2,789.71	2,790.30	0.00	0.00	0.00
10,800.00	88.00	91.18	8,199.60	-59.27	2,889.63	2,890.24	0.00	0.00	0.00
10,900.00	88.00	91.18	8,203.09	-61.32	2,989.55	2,990.18	0.00	0.00	0.00
11,000.00	88.00	91.18	8,206.57	-63.37	3,089.46	3,090.11	0.00	0.00	0.00
11,100.00	88.00	91.18	8,210.06	-65.42	3,189.38	3,190.05	0.00	0.00	0.00
11,200.00	88.00	91.18	8,213.55	-67.47	3,289.30	3,289.99	0.00	0.00	0.00
11,300.00	88.00	91.18	8,217.03	-69.53	3,389.22	3,389.93	0.00	0.00	0.00
11,400.00	88.00	91.18	8,220.52	-71.58	3,489.14	3,489.87	0.00	0.00	0.00
11,500.00	88.00	91.18	8,224.01	-73.63	3,589.06	3,589.81	0.00	0.00	0.00
11,600.00	88.00	91.18	8,227.50	-75.68	3,688.97	3,689.75	0.00	0.00	0.00
11,700.00	88.00	91.18	8,230.98	-77.73	3,788.89	3,789.69	0.00	0.00	0.00
11,800.00	88.00	91.18	8,234.47	-79.78	3,888.81	3,889.63	0.00	0.00	0.00
11,900.00	88.00	91.18	8,237.96	-81.83	3,988.73	3,989.57	0.00	0.00	0.00
12,000.00	88.00	91.18	8,241.44	-83.88	4,088.65	4,089.51	0.00	0.00	0.00
12,100.00	88.00	91.18	8,244.93	-85.94	4,188.56	4,189.45	0.00	0.00	0.00
12,200.00	88.00	91.18	8,248.42	-87.99	4,288.48	4,289.39	0.00	0.00	0.00
12,300.00	88.00	91.18	8,251.90	-90.04	4,388.40	4,389.32	0.00	0.00	0.00
12,400.00	88.00	91.18	8,255.39	-92.09	4,488.32	4,489.26	0.00	0.00	0.00
12,500.00	88.00	91.18	8,258.88	-94.14	4,588.24	4,589.20	0.00	0.00	0.00
12,532.05	88.00	91.18	8,259.99	-94.80	4,620.26	4,621.24	0.00	0.00	0.00
12,532.20	88.00	91.18	8,260.00	-94.80	4,620.41	4,621.38	3.00	-1.21	2.74

BHL (ST 18 #5H)

Targets

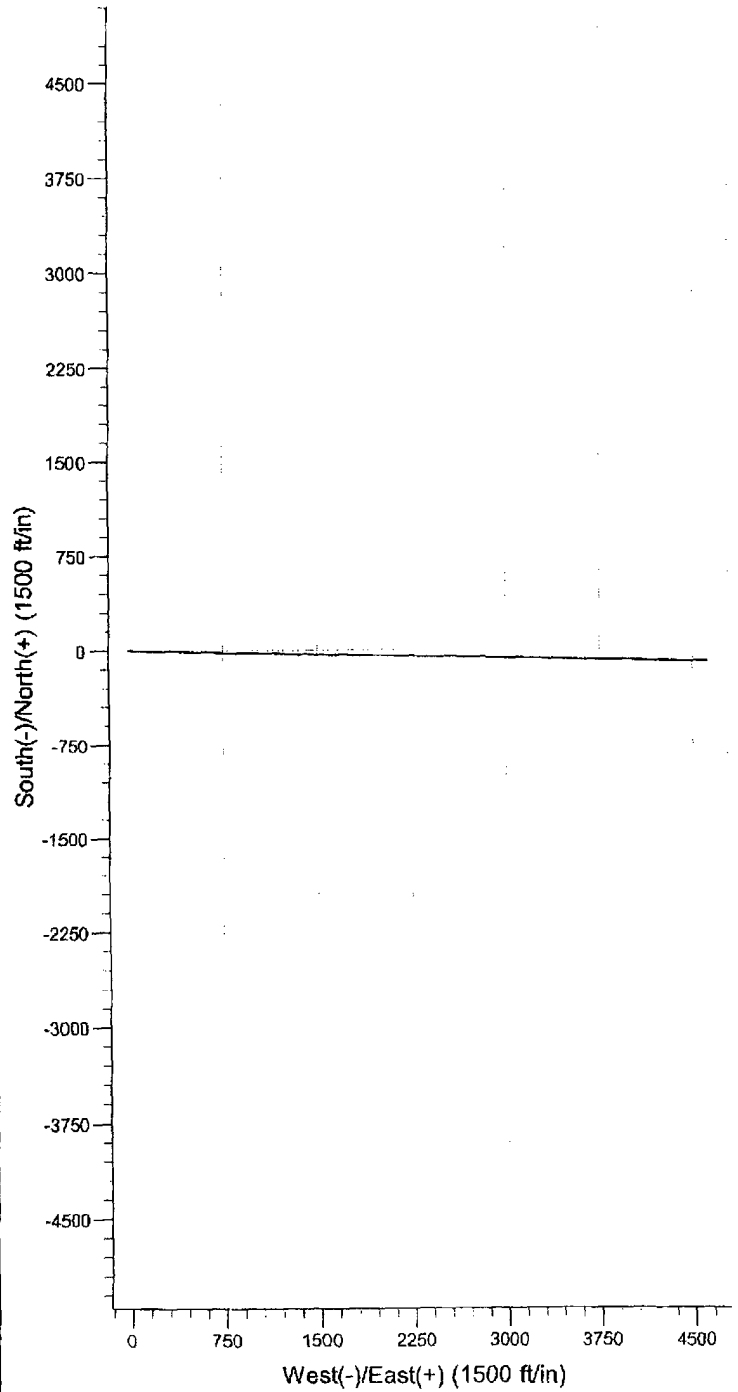
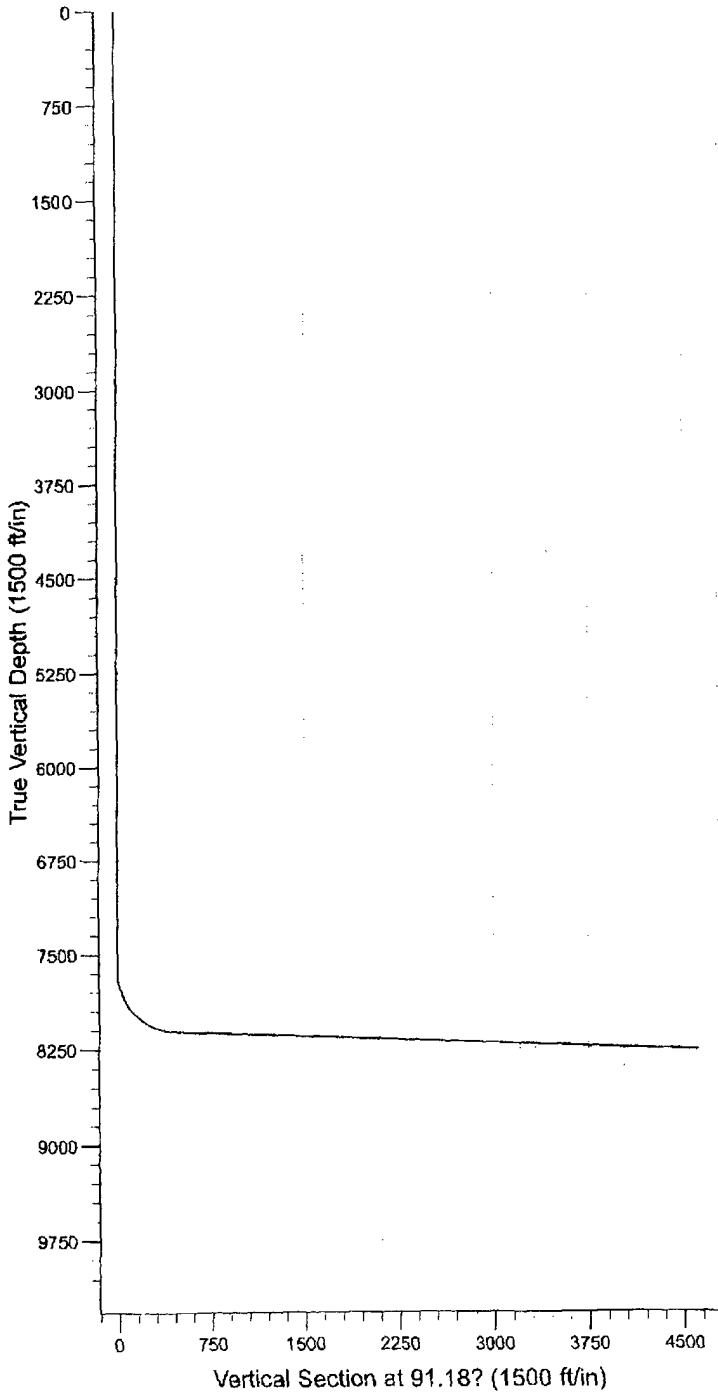
Target Name	Dip Angle (?)	Dip Dir. (?)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL (ST 18 #5H)	0.00	0.00	8,260.00	-94.80	4,620.41	633,564.20	604,121.80	32° 44' 28.699 N	103° 59' 40.916 W
- plan hits target center									
- Point									

WELL DETAILS: Sand Tank 18 Fed Com #5H

+N/-S	+E/-W	Northing	Ground Level:	3511.00	Latitude	Longitude	Slot
0.00	0.00	633659.00	Easting	599501.40	32° 44' 29.780 N	104° 0' 35.009 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	Target	Sec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7633.00	0.00	0.00	7633.00	0.00	0.00	0.00	0.00	0.00	
3	8373.75	88.00	91.17	8115.00	-9.50	465.36	11.88	91.17	465.46	
4	8373.96	88.00	91.18	8115.01	-9.51	465.57	3.00	73.68	465.67	
5	82532.05	88.00	91.18	8259.99	-94.80	4620.26	0.00	0.00	4621.24	
6	82532.20	88.00	91.18	8260.00	-94.80	4620.41	3.00	0.00	4621.38	



EOG RESOURCES, INC.
Sand Tank 18 Fed Com 5H

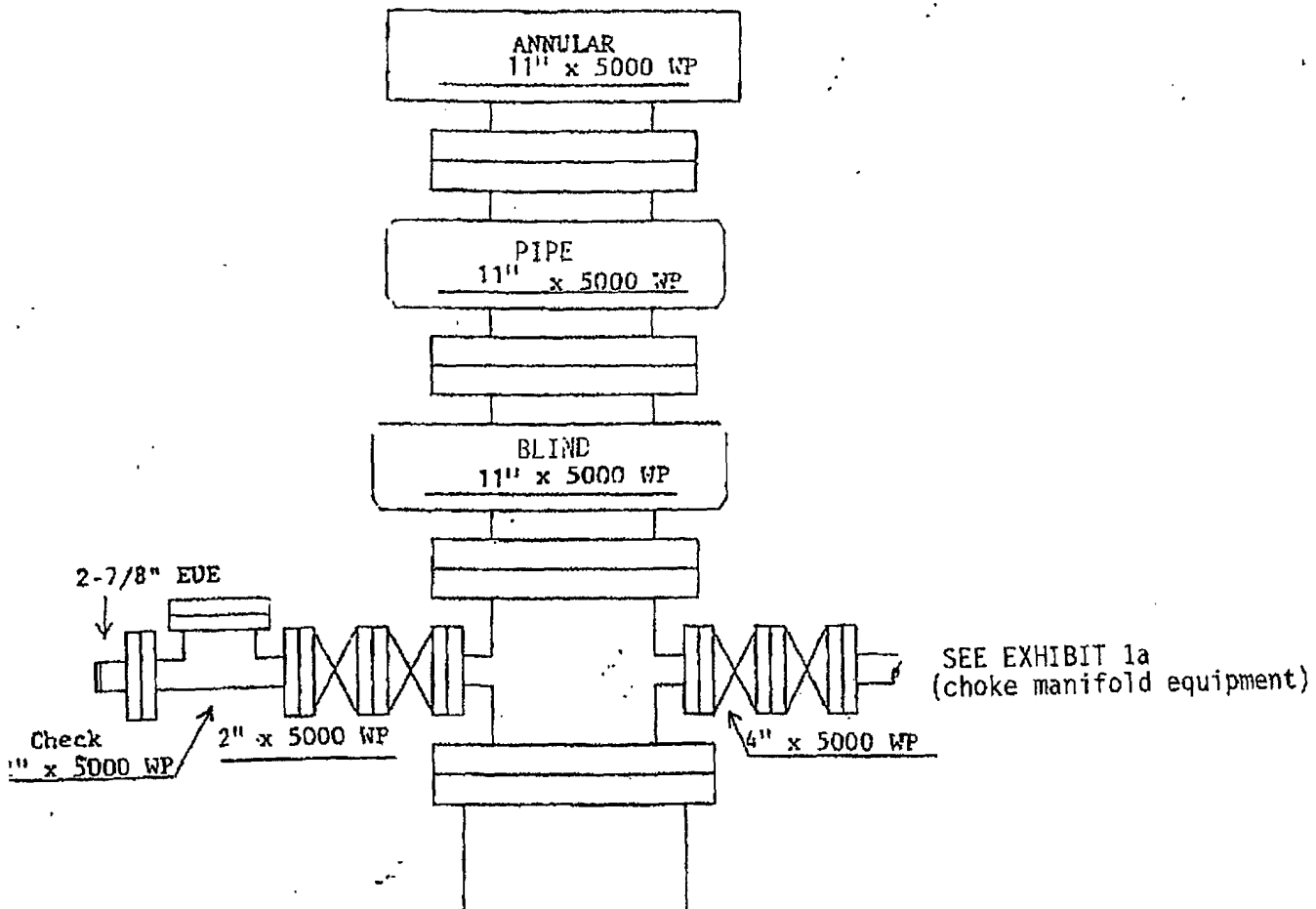
ATTACHMENT TO EXHIBIT #1

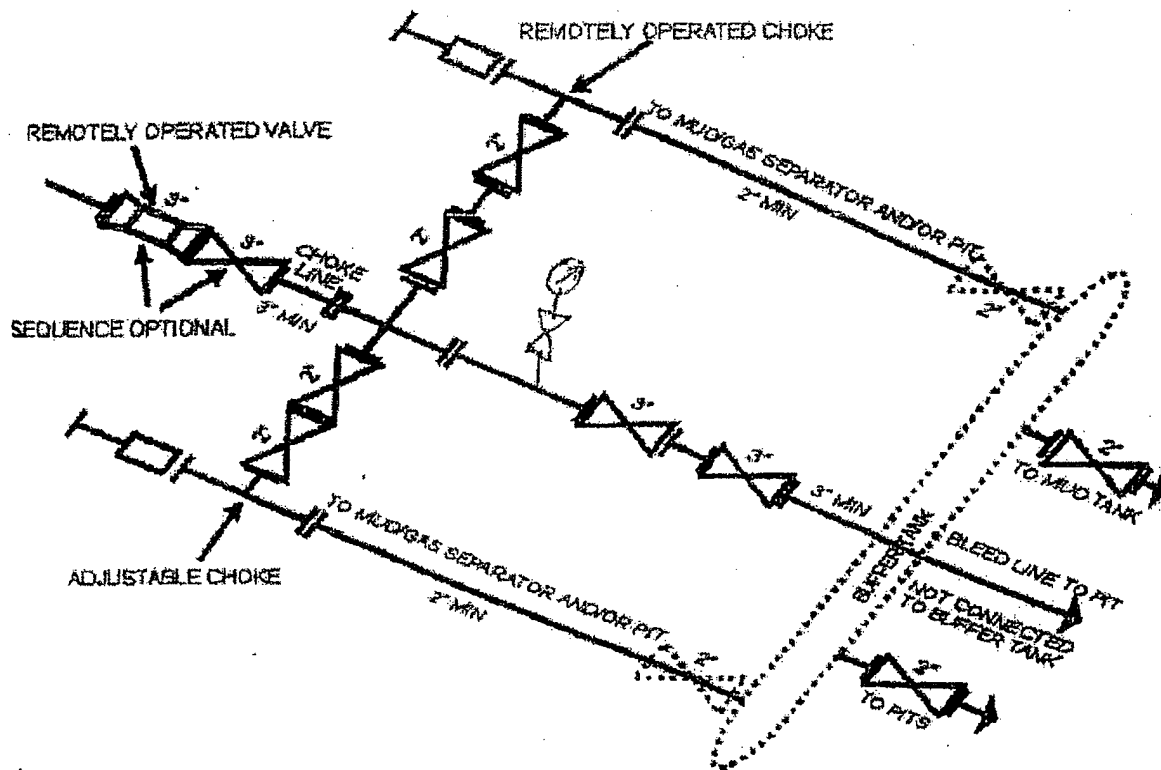
1. Wear ring to be properly installed in head.
2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1.
3. All fittings to be flanged
4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
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, Inc.

Sand Tank 18 Fed Com 5H





5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

[54 FR 39528, Sept. 27, 1989]

Per BLM: Operator is to submit an accurate manifold schematic and not the general example from Onshore Order #2

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator EOG RESOURCES INC OGRID # 7377
 Well Name & # SAND TANK 18 FED COM #54 Surface Type (F) (S) (P)
 Location: UL 0 Sect 18, Township 18 s, RNG 30,
N 17-18-30 Sub-surface Type (F) (S) (P)

A. Date C101 rec'd / / C101 reviewed / /

B. 1. Check mark, Information is OK on Forms:

OGRID , BONDING FED PROP CODE , WELL # 4, SIGNATURE

2. Inactive Well list as of: 4/18/11 # wells 530, # Inactive wells

a. District Grant APD but see number of inactive wells:

No letter required ; Sent Letter to Operator , to Santa Fe

3. Additional Bonding as of: 4/18/11

a. District Denial because operator needs addition bonding:

No Letter required ; Sent Letter to Operator , To Santa Fe

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required ; Sent Letter to Operator , To Santa Fe

C. C102 YES , NO , Signature

1. Pool SAND TANK 18, Code 96832

a. Dedicated acreage 160, What Units 18: DP 17: MN

b. SUR. Location Standard , Non-Standard Location

c. Well shares acres: Yes , No , # of wells plus this well #

2. 2nd. Operator in same acreage, Yes , No

Agreement Letter , Disagreement letter

3. Intent to Directional Drill Yes , No

a. Dedicated acreage 160, What Units 18: DP 17: MN

b. Bottomhole Location Standard , Non-Standard Bottomhole

4. Downhole Commingle: Yes , No

a. Pool #2 , Code , Acres

Pool #3 , Code , Acres

Pool #4 , Code , Acres

5. POTASH Area Yes , No

D. Blowout Preventer Yes , No

E. H2S Yes , No PART FED APD

F. C144 Pit Registration Yes , No need

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes , No , NSL #

2. Non-Standard Proration: Yes , No , NSP #

3. Simultaneous Dedication: Yes , No , SD #

Number of wells Plus #

4. Injection order Yes , No ; PMX # or WFX #

5. SWD order Yes , NO ; SWD #

6. DHC from SF ; DHC-HOB ; Holding

7. OCD Approval Date 4/18/11

API # 30-015--38959

8. Reviewers