KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1065579

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5278
Name: EOG Resources, Inc.
Address 1: 3817 NW EXPRESSWAY STE 500
Address 2:
City: OKLAHOMA CITY State: OK Zip: 73112 + 1483
Contact Person: DAWN ROCKEL
Phone: (405) 246-3226
CONTRACTOR: License # 34000
Name: Kenai Mid-Continent, Inc.
Wellsite Geologist: TOM HEFLIN
Purchaser: N/A

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [ ] D&A
- [ ] ENHR
- [ ] SIGW
- [ ] OG
- [ ] GSW
- [ ] Temp. Abd.
- [ ] CM *(Coal Bed Methane)*
- [ ] Cathodic
- [x] Other *(Core, Expl., etc.)*: DRY

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

- [ ] Deepening
- [ ] Re-perf.
- [ ] Conv. to ENHR
- [ ] Conv. to SWD
- [ ] Conv. to GSW
- [ ] Plug Back: Plug Back Total Depth
- [ ] Commingled Permit #:
- [ ] Dual Completion Permit #:
- [ ] SWD Permit #:
- [ ] ENHR Permit #:
- [ ] GSW Permit #:

06/24/2011	07/03/2011	07/03/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-189-22770-00-00
Spot Description:
SW - NE - SW - NW Sec. 22 Twp. 32 S. R. 37 [ ] East [x] West
1840 Feet from [x] North / [ ] South Line of Section
780 Feet from [ ] East / [x] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [x] NW [ ] SE [ ] SW
County: Stevens
Lease Name: Timken Well #: 22 #1
Field Name:
Producing Formation: N/A
Elevation: Ground: 3128 Kelly Bushing: 3132
Total Depth: 6500 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1730 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 4000 ppm Fluid volume: 1000 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. [ ] East [ ] West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- [x] **Letter of Confidentiality Received**
  Date: 10/20/2011
- [x] **Confidential Release Date:** 10/19/2013
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] I [ ] II [ ] III **Approved by:** NAOMI JAMES **Date:** 10/25/2011

Side Two

1065579

Operator Name: EOG Resources, Inc. Lease Name: Timken Well #: 22 #1

Sec. 22 Twp. 32 S. R. 37 ☐ East ☑ West County: Stevens

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☑ Yes ☐ No
Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	24	1730	VARICEM MCII	300	SEE ATTACHED
SURFACE	12.25	8.625	24	1730	SWIFTCEM	200	SEE ATTACHED
PRODUCTION	7.875	5.5	15.5	3338	ECONOCEM	185	SEE ATTACHED

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 07/03/2011

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* XOM TAKEOVER WELLBORE 07/02/2011.

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☑ Other *(Specify)* DRY/XOM TAKEOVER WELLBORE 07/02/2011

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	EOG Resources, Inc.
Well Name	Timken 22 #1
Doc ID	1065579

All Electric Logs Run

SPECTRAL DENSITY DUAL SPACED NEUTRON,
RESISTIVITY
ANNULAR HOLE VOLUME
SONIC ARRAY

Form	ACO1 - Well Completion
Operator	EOG Resources, Inc.
Well Name	Timken 22 #1
Doc ID	1065579

Tops

Name	Top	Datum
BASE OF HEEBNER	4130	-997
LANSING	4248	-1115
MARMATON	4897	-1764
CHEROKEE	5140	-2007
ATOKA	5532	-2399
ATOKA LIME	5598	-2465
MORROW	5639	-2506
CHESTER	6016	-2883
ST. LOUIS	6296	-3163

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

October 18, 2011

DAWN ROCKEL
EOG Resources, Inc.
3817 NW EXPRESSWAY STE 500
OKLAHOMA CITY, OK 73112-1483

Re: ACO1
API 15-189-22770-00-00
Timken 22 #1
NW/4 Sec.22-32S-37W
Stevens County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,

DAWN ROCKEL

DRILL STEM TEST REPORT

EOG Resources Inc.

3817 NW Expressway Oklahoma City Ok. 73112-1483

ATTN: William H.

Timken 22-1

22/32/37

Job Ticket: 39437 **DST#: 1**

Test Start: 2011.07.01 @ 02:45:00

GENERAL INFORMATION:

Formation: **St. Louis B C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:45:45
Time Test Ended: 15:26:30

Test Type: Conventional Bottom Hole
Tester: Harley Davidson
Unit No: 33

Interval: 6313.00 ft (KB) To 6385.00 ft (KB) (TVD)
Total Depth: 6385.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

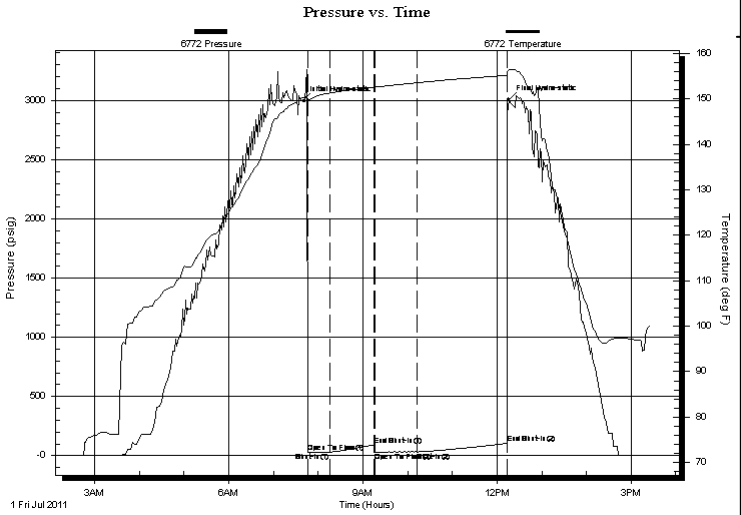
Reference Elevations: 3132.00 ft (KB)
3121.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6772 **Inside**

Press@RunDepth: 32.88 psig @ 6315.00 ft (KB)
Start Date: 2011.07.01 End Date: 2011.07.01
Start Time: 02:45:05 End Time: 15:26:30

Capacity: 8000.00 psig
Last Calib.: 2011.07.01
Time On Btm: 2011.07.01 @ 07:39:45
Time Off Btm: 2011.07.01 @ 12:15:45

TEST COMMENT: IF- Weak Surface blow that died after 6min.
ISI- No blow back.
FF- No blow .
FSI- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2995.59	150.30	Initial Hydro-static
6	31.09	149.92	Open To Flow (1)
36	30.37	151.30	Shut-In(1)
96	92.35	152.59	End Shut-In(1)
96	29.36	152.57	Open To Flow (2)
154	32.88	153.56	Shut-In(2)
274	105.06	155.17	End Shut-In(2)
276	3006.98	156.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% mud	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

EOG Resources Inc.

3817 NW Expressway Oklahoma City Ok. 73112-1483

ATTN: William H.

Timken 22-1

22/32/37

Job Ticket: 39437 **DST#: 1**

Test Start: 2011.07.01 @ 02:45:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1100.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

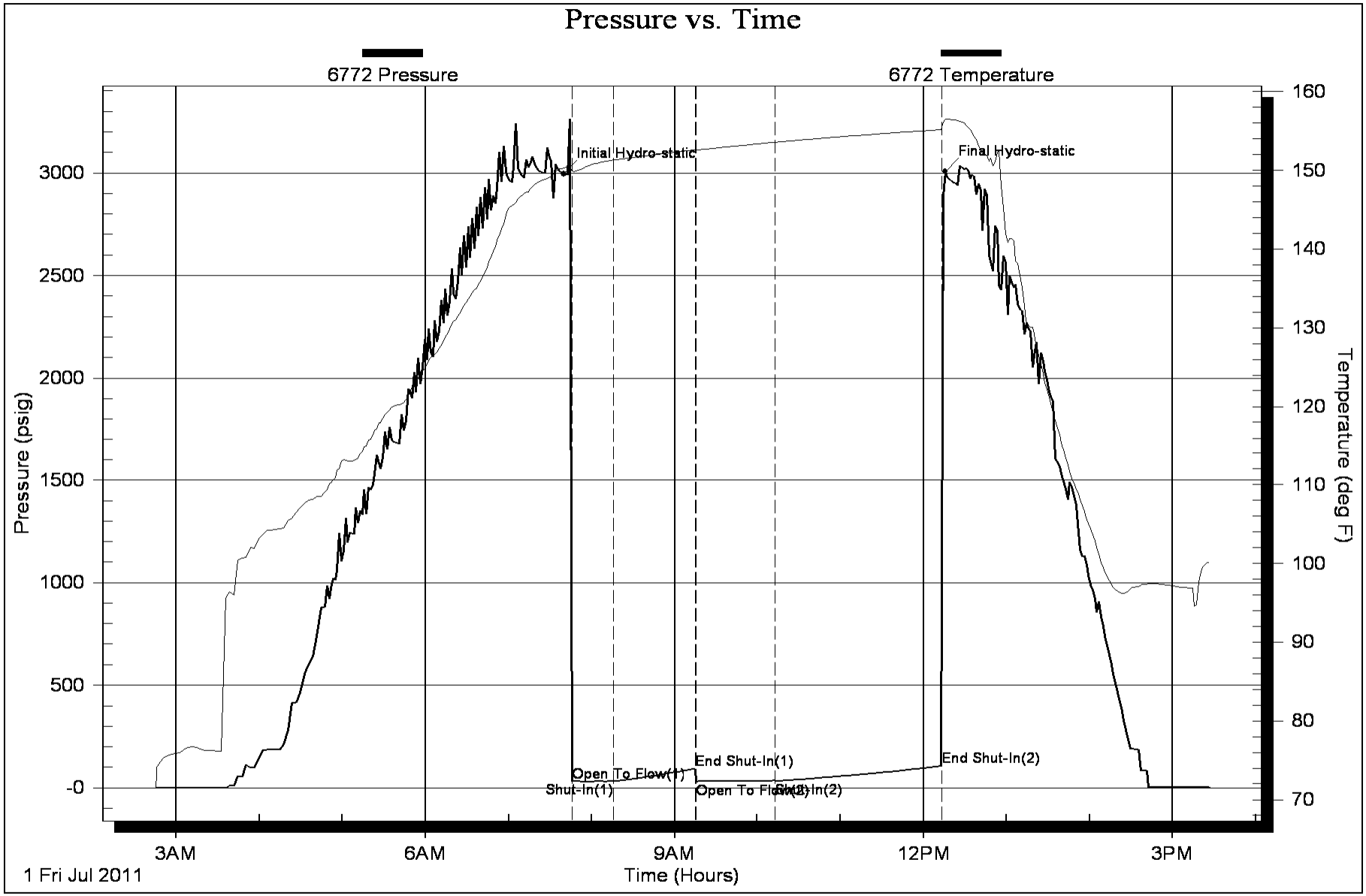
Length ft	Description	Volume bbl
15.00	100% mud	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Data- Trace of mud @ 100 PSI.


Pressure vs. Time
6772 Pressure
6772 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
3000
2500
2000
1500
1000
500
-0
160
150
140
130
120
110
100
90
80
70
3AM
6AM
9AM
12PM
3PM
1 Fri Jul 2011
Time (Hours)

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 348223	**Ship To #:** 2861848	**Quote #:**	**Sales Order #:** 8273535
Customer: EOG RESOURCES INC EBUSINESS		**Customer Rep:** Howard, William	
Well Name: Timken 22	**Well #:** 1		**API/UWI #:** 1518922770
Field:	**City (SAP):** HUGOTON	**County/Parish:** Stevens	**State:** Kansas
Legal Description: Section 22 Township 32S Range 37W			
Contractor: KENAI	**Rig/Platform Name/Num:** 58		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: DRAKE, BRANDON	**Srvc Supervisor:** SMITH, BOBBY	**MBU ID Emp #:** 106036	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
AGUILERA, FABIAN J	10	442123	GOMEZ, OSCAR	10	490448	GRAVES, JEREMY Lee	10	399155
LOPEZ ROSALES, JUAN	10	198514	SMITH, BOBBY Wayne	10	106036			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10240239	25 mile	10240245	25 mile	10243558	25 mile	10244148	25 mile
10286731	25 mile	10744298C	25 mile	10949718	25 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**			
Job depth MD	1742. ft	**Job Depth TVD**	174. ft		
Water Depth		**Wk Ht Above Floor**	5. ft		
Perforation Depth (MD)	**From**		**To**		

Job Times

	Date	Time	Time Zone
Called Out	26 - Jun - 2011	12:00	CST
On Location	26 - Jun - 2011	14:00	CST
Job Started	26 - Jun - 2011	19:15	CST
Job Completed	26 - Jun - 2011	20:15	CST
Departed Loc	26 - Jun - 2011	22:00	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Surface Hole				12.25					1700.		
Surface Casing	Unknown		8.625	8.097	24.				1700.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,CSG,TIGER TOOTH,8 5/8 IN 8RD	1	EA		
CLR,FLT,TROPHY SEAL,8-5/8 8RD	1	EA		
AUTOFILL KIT,TROPHY SEAL	1	EA		
CENTRALIZER ASSY - API - 8-5/8 CSG X	11	EA		
CLAMP - LIMIT - 8-5/8 - HINGED -	2	EA		
BASKET - CEMENT - 8 5/8 CSG X 12 1/4	1	EA		
KIT,HALL WELD-A	2	EA		
PLUG,CMTG,TOP,8 5/8,HWE,7.20 MIN/8.09 MA	1	EA		

Cementing Job Summary

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Miscellaneous Materials

Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty	Conc %
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size	Qty

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Lead Cement	VARICEM (TM) CEMENT (452009)	300.0	sacks	11.4	2.96	18.14		18.14
	3 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	18.138 Gal	FRESH WATER							
2	Tail Cement	SWIFTCEM (TM) SYSTEM (452990)	200.0	sacks	15.6	1.2	5.22		5.22
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	0.25 lbm	POLY-E-FLAKE (101216940)							
	5.218 Gal	FRESH WATER							
3	Displacement		108.00	bbl	8.33	.0	.0	.0	

Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	

Rates

Circulating		Mixing		Displacement		Avg. Job	

Cement Left In Pipe	Amount	45 ft	Reason	Shoe Joint

Frac Ring # 1 @		ID		Frac ring # 2 @		ID		Frac Ring # 3 @		ID		Frac Ring # 4 @		ID	

The Information Stated Herein Is Correct	Customer Representative Signature

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 348223	**Ship To #:** 2861848	**Quote #:**	**Sales Order #:** 8273535
Customer: EOG RESOURCES INC EBUSINESS		**Customer Rep:** Howard, William	
Well Name: Timken 22	**Well #:** 1		**API/UWI #:** 1518922770
Field:	**City (SAP):** HUGOTON	**County/Parish:** Stevens	**State:** Kansas
Legal Description: Section 22 Township 32S Range 37W			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		**Long:** E 0 deg. OR E 0 deg. 0 min. 0 secs.	
Contractor: KENAI	**Rig/Platform Name/Num:** 58		
Job Purpose: Cement Surface Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Surface Casing		
Sales Person: DRAKE, BRANDON	**Srvc Supervisor:** SMITH, BOBBY		**MBU ID Emp #:** 106036

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/26/2011 12:00							
Depart Location Safety Meeting	06/26/2011 13:30							
Arrive At Loc	06/26/2011 14:00							
Other	06/26/2011 14:00							Rig pulling drill pipe
Assessment Of Location Safety Meeting	06/26/2011 14:15							RIG CIRCULATING
Pre-Rig Up Safety Meeting	06/26/2011 14:30							
Rig-Up Completed	06/26/2011 15:00							
Other	06/26/2011 15:30							drill pipe out of the hole casing crew rigging up.
Other	06/26/2011 15:45							casing going in the hole
Other	06/26/2011 17:00							casing on bottom rig is circulating.
Safety Meeting - Pre Job	06/26/2011 18:30							
Start Job	06/26/2011 19:14							
Test Lines	06/26/2011 19:15							
Pump Lead Cement	06/26/2011 19:17		7	158.15				300 sx = 888 ft3 = top of cement surface
Other	06/26/2011 19:25							mud returns
Pump Tail Cement	06/26/2011 19:39		7	42.74				200 sx = 240 ft3. top of cement 1198.68 ft
Drop Top Plug	06/26/2011 19:45							
Pump Displacement	06/26/2011 19:53		10	0				water

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Stage Cement	06/26/2011 20:00		2	87				
Bump Plug	06/26/2011 20:08		2	107.7 7		500.0	1200. 0	
Check Floats	06/26/2011 20:13							float held.
End Job	06/26/2011 20:14							70 bbls of cement back to surface.
Safety Meeting - Pre Rig-Down	06/26/2011 20:30							
Rig-Down Completed	06/26/2011 21:15							
Safety Meeting - Departing Location	06/26/2011 21:30							
Depart Location for Service Center or Other Site	06/26/2011 22:00							Thank you for calling Halliburton. Bob and crew.

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 348223	**Ship To #:** 2861848	**Quote #:**	**Sales Order #:** 8295944
Customer: EOG RESOURCES INC EBUSINESS		**Customer Rep:** Howard, William	
Well Name: Timken	**Well #:** 22-1		**API/UWI #:**
Field:	**City (SAP):** HUGOTON	**County/Parish:** Finney	**State:** Kansas
Contractor: KENAI	**Rig/Platform Name/Num:** 58		
Job Purpose: Cement Production Casing			
Well Type: Development Well	**Job Type:** Cement Production Casing		
Sales Person: DRAKE, BRANDON	**Srvc Supervisor:** SMITH, BOBBY	**MBU ID Emp #:** 106036	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BERUMEN, EDUARDO	12	267804	DEETZ, DONALD E	12	389855	SMITH, BOBBY Wayne	12	106036
TORRES, CLEMENTE	12	344233						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			*Total is the sum of each column separately*					

Job

Formation Name					
Formation Depth (MD)	**Top**		**Bottom**		
Form Type		**BHST**			
Job depth MD	3343. ft	**Job Depth TVD**	3343. ft		
Water Depth		**Wk Ht Above Floor**	2. ft		
Perforation Depth (MD)	**From**		**To**		

Job Times

	Date	Time	Time Zone
Called Out	02 - Jul - 2011	21:00	CST
On Location	02 - Jul - 2011	10:30	CST
Job Started	03 - Jul - 2011	06:45	CST
Job Completed	03 - Jul - 2011	07:39	CST
Departed Loc	03 - Jul - 2011	11:00	CST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Production Hole				7.875				1700.	3300.		
5 1/2" Production Casing	Unknown		5.5	4.95	15.5	8 RD (LT&C)			3300.		
Surface Casing	Unknown		8.625	8.097	24				1700.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,FLOAT,5 1/2 8RD,2 3/4 SUPER SEAL	1	EA		
CLR,FLT,5-1/2 8RD,14-23PPF,2-3/4	1	EA		
CENTRALIZER ASSY - TURBO - API -	35	EA		
CLAMP - LIMIT - 5-1/2 - HINGED -	3	EA		
KIT,HALL WELD-A	2	EA		
PLUG,CMTG,TOP,5 1/2,HWE,4.38 MIN/5.09 MA	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

Cementing Job Summary

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty	

Fluid Data

Stage/Plug #: 1

Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Primary Cement	ECONOCEM (TM) SYSTEM (452992)	185.0	sacks	13.5	1.73	8.19		8.19
	6 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	10 %	SALT, 100 LB BAG (100003652)							
	2 lbm	PRESSUR-SEAL LCM, 40 LB (101204356)							
	0.6 %	HALAD(R)-344, 50 LB (100003670)							
	0.5 %	D-AIR 3000 (101007446)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	8.191 Gal	FRESH WATER							
2	~~2% KCL~~ Displacement	Fresh	79.00	bbl	8.45	.0	.0	.0	
	7.15 lbm/bbl	POTASSIUM CHLORIDE - KCL, 50 LB BAG (100001585)							
3	Rat Hole Plug Cement	PLUGCEM (TM) SYSTEM (452969)	50.0	sacks	13.5	1.73	8.19		8.19
	6 %	CAL-SEAL 60, 50 LB BAG (101217146)							
	10 %	SALT, 100 LB BAG (100003652)							
	2 lbm	PRESSUR-SEAL LCM, 40 LB (101204356)							
	0.6 %	HALAD(R)-344, 50 LB (100003670)							
	0.5 %	D-AIR 3000 (101007446)							
	0.1 %	WG-17, 50 LB SK (100003623)							
	8.191 Gal	FRESH WATER							

Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad	
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	

Rates

Circulating		Mixing		Displacement		Avg. Job	

Cement Left In Pipe	Amount	45 ft	Reason	Shoe Joint

Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID

The Information Stated Herein Is Correct	Customer Representative Signature

Cementing Job Log

The Road to Excellence Starts with Safety

Sold To #: 348223	**Ship To #:** 2861848	**Quote #:**	**Sales Order #:** 8295944
Customer: EOG RESOURCES INC EBUSINESS		**Customer Rep:** Howard, William	
Well Name: Timken	**Well #:** 22-1		**API/UWI #:**
Field:	**City (SAP):** HUGOTON	**County/Parish:** Finney	**State:** Kansas
Legal Description:			
Lat:		**Long:**	
Contractor: KENAI	**Rig/Platform Name/Num:** 58		
Job Purpose: Cement Production Casing			**Ticket Amount:**
Well Type: Development Well	**Job Type:** Cement Production Casing		
Sales Person: DRAKE, BRANDON	**Srvc Supervisor:** SMITH, BOBBY		**MBU ID Emp #:** 106036

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/02/2011 21:00							
Depart Location Safety Meeting	07/02/2011 22:00							
Arrive At Loc	07/02/2011 22:45							
Assessment Of Location Safety Meeting	07/02/2011 22:45							rig going to bottom with drill pipe
Pre-Rig Up Safety Meeting	07/02/2011 22:50							
Other	07/02/2011 23:25							circulating on bottom with drill pipe
Other	07/02/2011 23:30							the rig is pulling drill pipe out of the hole
Other	07/03/2011 02:00							casing going in the hole
Other	07/03/2011 06:00							casing on bottom, rig circulating.
Safety Meeting - Pre Job	07/03/2011 06:25							
Start Job	07/03/2011 06:44							
Test Lines	07/03/2011 06:45						6000.0	
Pump Tail Cement	07/03/2011 06:57		6	57			500.0	185 sx = 320.05 ft3. top of cement 1531.65 ft
Drop Top Plug	07/03/2011 07:10							
Pump Displacement	07/03/2011 07:20		10	0			400.0	[redacted] Fresh
Bump Plug	07/03/2011 07:35		2	78.44		800.0	1600.0	
Other	07/03/2011 07:38							plug held
End Job	07/03/2011 07:39							

Cementing Job Log

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Lead Cement	07/03/2011 08:10		2	7.5				25 sx rat hole
Pump Lead Cement	07/03/2011 08:15		2	7.5				25 sx mouse hole
Safety Meeting - Pre Rig-Down	07/03/2011 08:25							
Rig-Down Completed	07/03/2011 10:30							
Safety Meeting - Departing Location	07/03/2011 10:45							
Depart Location for Service Center or Other Site	07/03/2011 11:00							Thank you for calling Halliburton. Bob and crew.