

# RIG 6 DRILLING CO. INC

P O BOX # 227  
IOLA, KS 66749

R.K. (Bud) Sifers  
(620) 365-6294

John J. Barker  
(620) 365-7806

COMPANY Barnard Oil Operations  
ADDRESS: P O Box 535  
Madison, KS 66860

COMMENCED: 11/27/2013  
COMPLETED: 12/3/2013  
WELL #: 16  
API#: 15-073-24,199  
STATUS: Oil Well  
TOTAL DEPTH: 1988'-6 3/4"  
CASING: 105' 8 5/8"  
1974'-4 1/2"  
Hurricane cmt

LEASE: Garth-Hess  
COUNTY: Greenwood  
LOCATION 800 FNL; 675 FEL  
22/22/11

## DRILLER'S LOG

5	SOIL AND CLAY	1170	LS w/SH Strks
7	Sand (SA)	1238	SH
12	Shale (SH)	1415	LS w/SH Brks
14	Limestone (LS)	1587	SH w/LS Strks
40	SH	1610	LS
43	LS	1810	SH w/LS Strks
53	SH	1812	COAL (CO)
60	LS	1893	SH
127	SA SH	1921	SA (Good Odor)
130	LS	1926	SH
190	SH	1931	SA (Lite Odor)
212	LS	1988	SH
290	SH w/LS Brks		
325	LS	1988	T.D.
382	SH		
377	LS		
451	SH		
460	LS		
607	SH w/LS Brks		
697	LS w/SA LS		
822	SH		
835	LS		
911	SA		
989	SH		

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Hurricane Services, Inc.  
 3613 A Y Road  
 Madison, KS 66860  
 Office # 620-437-2661  
 Brad Cell # 620-437-6765



Ticket Number 100338  
 Location Madison  
 Foreman Brad Butler

**Cement Service ticket**

Date	Customer #	Well Name & Number	Sec./Township/Range	County
11-27-13		Garth-Hess #16	22-22s-11E	Greenwood
Customer <u>BARNHART Oil Operations</u>		Mailing Address	City	State Zip

Job Type: Surface Pipe

Hole Size:	Casing Size:	Displacement:	Truck #	Driver
<u>12 1/4"</u>	<u>8 5/8"</u>	<u>6 1/4 Blts</u>	<u>201</u>	<u>Kelly</u>
Hole Depth: <u>110'</u>	Casing Weight: <u>23 lb.</u>	Displacement PSI: <u>200</u>	<u>202</u>	<u>Jerry</u>
Bridge Plug:	Tubing:	Cement Left in Casing: <u>15'</u>	<u>106</u>	<u>Bryant</u>
Packer:	<u>105'</u>			

Quantity Or Units	Description of Services or Product	Pump charge	
<u>5</u>	Mileage	\$3.25/Mile	<u>16.25</u>
<u>56 SACKS</u>	Regular cement	<u>14.85</u>	<u>831.60</u>
<u>158 lbs</u>	CAC 12 3%	<u>.75</u>	<u>118.50</u>
<u>25 lbs</u>	Floccle	<u>2.15</u>	<u>53.75</u>
<u>2 Hrs.</u>	WATER TRUCK	<u>84.00</u>	<u>168.00</u>
Tons	Bulk Truck > minimum charge		<u>300.00</u>
	Plugs		
		Subtotal	<u>2278.10</u>
		Sales Tax <u>7.15%</u>	<u>71.77</u>
		Estimated Total	<u>2349.87</u>

Remarks: 8 5/8" SET OF 115' KB / Rig into casing, Break circulation with fresh water.  
Mixed 56 sacks Reg cement w/ 3% CAC 12 and Floccle, Disposal cement with 6 1/4 Blts WATER.  
Shut down - close casing w/ with Gail cement FTWAS.

"Thank you"

Callie Ray (Rig G. Dnt.)  
 Customer Signature

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Hurricane Services, Inc.  
 3613 A Y Road  
 Madison, KS 66860  
 Office # 620-437-2661  
 Brad Cell # 620-437-6765



HURRICANE SERVICES INC  
 OILFIELD SERVICES  
 MADISON, KANSAS

Ticket Number 100339  
 Location Madison  
 Foreman Brad Butler

**Cement Service ticket**

Date	Customer #	Well Name & Number	Sec./Township/Range	County
12-3-13		Garth - Hess #16	22-22s-11E	Greenwood
Customer		Mailing Address	City	State Zip
Barnard Oil Operations				

Job Type:	Longstrms			Truck #	Driver
Hole Size:	6 3/4"	Casing Size:	4 1/2"	201	Kelly
Hole Depth:	1988'	Casing Weight:	used 10.5lb.	202	Jerry
Bridge Plug:		Tubing:		842-157	Bryan
Packer:		PBTD:	1974'		

Quantity Or Units	Description of Services or Product	Pump charge	
5	Mileage	\$3.25/Mile	790.00 16.25
75 sacks	60/40 Pozmix cement	12.00	900.00
150 lbs.	Gel 2%	.30	45.00
3 hrs.	Water Transport	105.00	315.00
Tons	Bulk Truck > minimum charge	<del>300.00</del>	300.00
1	Plugs 4 1/2" Top Rubber	38.00	38.00
		Subtotal	2404.25
		7.15%	Sales Tax 70.28
		Estimated Total	2474.53

Remarks: Rig up to 4 1/2" casing, Pumped 10 Bbl. Fresh water Ahead, Mixed 75 sacks 60/40 Pozmix cement w/ 2% Gel, Shut down - Release Top Rubber Plug - Wash out Pump & Lines  
 Displaced Plug with 31 Bbls water, Final Pumping @ 550 PSI  
 Landed Plug with 1100 PSI, Release Pressure - Float Held - close casing w/ 0 PSI  
 Job complete - Teardown  
 Note: we had good circulation during cementing procedure  
 "Thank you"

Called by Dick Barnard  
 Customer Signature

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# *Geologist Report*

**Garth-Hess #16 (API# 15-073-24199)**

**Sec. 22 Twn. 22S Rge. 11E**

**NE-SW-NE-NE**

**Seeley- Wick Field**

**Greenwood County, KS**

Jarred Leis  
Petroleum Geologist  
1135 30<sup>th</sup> Rd  
Yates Center, KS 66783

Prepared for:  
**Barnard Oil Operations**  
Madison, KS

Drilling Contractor:  
**Rig 6 Drilling**  
Iola, KS

**TD: 1980**  
**Surface Pipe: 8 5/8"**  
**Production Casing: 4 1/2"**



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## ***Sample Descriptions***

### **Bartlesville Sand:**

1888-1920: Sandstone: clear, sub-rounded, medium grained, very good odor, and very good fluorescence, free oil also present

1920-1930: Sandstone: tan/grey, fine to medium grained, sub-rounded, good odor, scattered fluorescence, and no free oil

1930-1940: Sandstone: clear/tan, fine grained, sub-rounded, fair odor, very scattered fluorescence, no free oil

1940-1950: Sandstone: clear/tan, fine grained, well rounded, faint odor, very scattered fluorescence, no free oil

1950-1960: Sandstone: tan/clear, fine grained, well rounded, very faint odor, scattered fluorescence, no free oil

1960-1970 Sandstone: as above with Shale: grey

### **Conclusions:**

4 1/2" casing was set to further evaluate the Bartlesville Sand

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