

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15- 179-21,060-00-00 **ORIGINAL**

Operator: License # 5663

Name: Hess Oil Company

Address P. O. Box 1009

McPherson, KS 67460

City/State/Zip \_\_\_\_\_

Purchaser: N.C.R.A.

Operator Contact Person: Bryan Hess

Phone ( 316 ) 241-4640

Contractor: Name: Mallard JV, Inc.

License: 4958

Wellsite Geologist: James C. Hess

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

12-26-92 1-2-93 3-1-93  
Spud Date Date Reached TD Completion Date

County Sheridan

Appx. NE NW NE Sec. 22 Twp. 6 Rge. 26 XX<sup>E</sup>

490 Feet from N (circle one) Line of Section

1650 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE SE, NW or SW (circle one)

Lease Name Brandt Farms Well # 1

Field Name \_\_\_\_\_

Producing Formation Lansing

Elevation: Ground 2630' KB 2635'

Total Depth 3964' PBDT 3935'

Amount of Surface Pipe Set and Cemented at 339 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 2226 Feet

If Alternate II completion, cement circulated from 2226'

feet depth to surface w/ 350 sx cmt.

Drilling Fluid Management Plan DLT 2 5-14-93  
(Data must be collected from the Reserve Pit)

Chloride content 8000 ppm Fluid volume 80 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

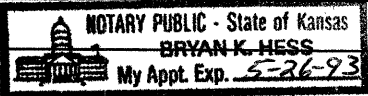
Signature James H. Hess

Title James H. Hess, VP Date 4-26-93

Subscribed and sworn to before me this 26th day of April, 19 93.

Notary Public Bryan K. Hess

Date Commission Expires \_\_\_\_\_



**K.C.C. OFFICE USE ONLY**

F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received

**Distribution**

KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify) \_\_\_\_\_

Recvd 04-28-93 Form ACO-1 (7-91)

Operator Name Hess Oil Company

Lease Name Brandt Farms

Well # 1

Sec. 22 Twp. 6 Rge. 26

East

County Sheridan

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

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  
(Submit Copy.)

List All E.Logs Run: Radiation Guard

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Anhydrite	2249'	( +386')
Base Anhydrite	2281	( +354)
Topeka	3552	( -917)
Heebner	3706	(-1071)
Lansing	3746	(-1111)
Base Ks City	3942	(-1307)
RTD	3964	(-1329)

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	12-1/4"	8-5/8"	20	339'	60/40 Poz	200	2% gel, 3%cc
Production	7-7/8"	5-1/2"	14.5	3951'	EA-2	150	10% salt, 5% cal seal
				and	HLC	350	4% addgel

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
1	3785', 3786, 3808-3811, 3894 (acidized and then squeezed all eventually)			
1	3910, 3917 acidized w/3,000 gal. 15% Hcl			

TUBING RECORD Size 2-3/8" Set At 3830' Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 4-17-93 Producing Method  Flowing  Pumping  Gas Lift  Other \_\_\_\_\_

Estimated Production Per 24 Hours Oil 4 Bbls. Gas \_\_\_\_\_ Mcf Water 30 Bbls. Gas-Oil Ratio \_\_\_\_\_

Disposition of Gas:  
 Vented  Sold  Used on Lease  
(If vented, submit ACO-18.)

METHOD OF COMPLETION  
 Open Hole  Perf.  Quality Comp.  Commingled  
 Other (Specify) \_\_\_\_\_

Production Interval 3910' - 3917'  
Conservation Division  
Wichita, Kansas

42893  
RECEIVED  
STATE OF KANSAS COMMISSIONER OF REVENUE  
APR 28 1993

**Hess Oil Company**

**Brandt Farms #1**

**Approx. NE NW NE Sec. 22-6-26W**

**Sheridan County, KS**

**API # 15-179-21,060-00-00**

DST #1: 3760'-3790'. 60-45-60-45. 1st blow strong - bottom of bucket in 6 min. 2nd, weak - building to 6" fair blow. Recovered 2' clean oil, 45' slightly oil cut mud (3% oil, 97% mud), 248' slightly oil cut muddy wtr (3% oil, 77% wtr, 20% mud), 665' water. IH 1944, IF 45-333, ISI 805, FF377-530, FSI 804, FH 1841. BHT 119.

DST #2: 3795'-3850'. 60-45-60-45. 1st blow strong - bottom of bucket in 6 min. for 20 min., then decreasing to 8" before shut in. 2nd, very weak surface blow. Recovered 248' gas in pipe, 124' clean gassy oil (10% gas, 90% oil), 206' oil cut gassy mud (10% gas, 40% oil, 50% mud). IH 1910, IF 107-163, ISI 210, FF 163-163, FSI 240, FH 1855. BHT 108.

DST #3: 3870'-3900'. 17-0-0-0. No blow, flushed tool - good surge, waited 10 min. - flushed tool - good surge. Recovered 60' drilling mud. IH 1936, IF 45-67, ISI ---, FF ---, FSI ---, FH 1880. BHT 108.

DST #4: 3870'-3950'. 60-45-14-0. 1st blow 1.25" decreasing to very weak surface blow after 60 min. 2nd, no blow - flushed tool. Recovered 248' heavy oil cut gassy mud (10% gas, 30% oil, 60% mud), 112' heavy oil cut gassy mud (20% gas, 30% oil, 50% mud). IH 1966, IF 79-199, ISI 1160, FF 228-236, FSI 1905. BHT 111.

# HESS OIL COMPANY

412 East Douglas, Suite One  
Wichita, Kansas 67202

(316) 263-2243

# ORIGINAL

## GEOLOGICAL REPORT

### BRANDT FARMS #1

448' FNL, 1640' FEL of

SECTION 22 - 6S - 26W

SHERIDAN COUNTY, KANSAS

Commenced:	12-26-92	Elevations:	2630' GR, 2635' KB
Completed:	1-2-93	Surface Pipe:	200' of 8-5/8"
Contractor:	Mallard J.V.	Production Pipe:	5½" to 3951' KB
Production:	Lansing Formation		

One foot drilling time was kept from 2240' to 2300' KB and from 3200' to total depth. Ten foot samples (wet & dry) were kept from 3400' KB to total depth.

Following are sample tops, descriptions of zones of interest (including shows of oil & gas), and results of all drill stem tests.

<u>ANHÝDRITE</u>	<u>2249</u>	<u>( +386)</u>
<u>BASE ANHYDRITE</u>	<u>2281</u>	<u>( +354)</u>
<u>TOPEKA</u>	<u>3552</u>	<u>( -917)</u>

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Brandt Farms #1  
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HEEBNER 3706 (-1071)

LANSING 3746 (-1111)

3746-52' KB White, very finely crystalline, slightly oolitic, fossiliferous, limestone. Slight show of free oil in very poor intercrystalline porosity, no odor, fair staining, and a weak cut.

3770-74' KB White, very finely crystalline, slightly oolitic, limestone. Slight show of free oil in poor intercrystalline porosity, no odor, fair stain, and a weak cut.

3784-88' KB Grey, fine to medium crystalline, weathered, limestone. Great show of free oil in good intercrystalline porosity, no odor, good stain, and a strong cut. (some barren porosity and some heavy tar stain)

DRILL STEM TEST #1 3760' to 3790' KB 30' Anchor

Blow: Bottom of bucket during both openings.

Times: Open 60, Closed 45, Open 60, Closed 45.

Recovered: 2' Oil  
45' Slightly Oil Cut Mud.  
913' Salt Water

Pressures: IH 1936# IF 44-330# ISIP 779#  
FH 1841# FF 374-527# FSIP 779#

3811-14' KB Clear, medium crystalline, oolitic, slightly oolitic, limestone. Great show of free oil in great intercrystalline porosity, strong odor, lots of light staining, and great cut. (some gas bubbles)

3821-29' KB Brown, very finely crystalline, dense, limestone. Fair show of free oil in poor to fair intercrystalline porosity, no odor, fair stain, and a fair cut.

# HESS OIL COMPANY

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# ORIGINAL

Brandt Farms #1

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## LANSING (cont. )

### DRILL STEM TEST #2

3795' to 3850' KB

55' Anchor

Blow: Bottom of bucket in 6 min. -- back up to 8" in 20 min. as blow weakened.  
2cd Opening --- weak surface blow.

Times: Open 60, Closed 45, Open 60, Closed 45.

Recovered: 248' Gas  
124' (10% Gas, 90% Oil)  
206' (10% Gas, 40% Oil, 50% Mud)

Pressures: IH 1905# IF 77-154# ISIP 209#  
FH 1852# FF 165-165# FSIP 253#

### 3861-63' KB

White, very finely crystalline, dense, limestone. Slight show of free oil in poor intercrystalline porosity, no odor, weak stain, and a poor cut.

### 3882-87' KB

White, very finely crystalline, oolitic, limestone. Slight show of free oil in very poor to poor intercrystalline porosity, no odor, weak stain, and a very weak cut.

### 3896-99' KB

White, very finely crystalline, limestone. Great show of free oil in fair intercrystalline porosity, fair odor, great stain, and a very strong cut. (Gas bubbles)

### DRILL STEM TEST #3

3870' to 3900' KB

30' Anchor

Blow: No blow --- Flushed tool 3 times.

Times: Open 17, Closed 0, Open 0, Closed 0.

Recovered: 60' Mud

Pressures: IH 1926# IF 44-64# ISIP ----  
FH 1880# FF ---- FSIP ----

### 3910-15' KB

Tan, very finely crystalline, dense, limestone. Fair show of free oil in poor intercrystalline porosity, fair odor, good staining, and a fair cut. (gas bubbles)

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# ORIGINAL

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Brandt Farms #1  
Page 4

BASE KANSAS CITY

3942 (-1307)

DRILL STEM TEST #4

3870' to 3950' KB

80' Anchor

Blow: Weak  $1\frac{1}{2}$ " down to  $\frac{1}{2}$ " --- 2cd opening  
dead blow. Flushed tool & pulled.

Times: Open 60, Closed 45, Open 14, Closed 0.

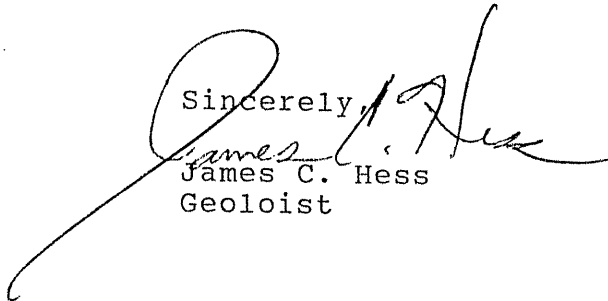
Recovered: 360' (10% Gas, 30% Oil, 60% Mud)

Pressures: IH 1957# IF 55-165# ISIP 1156#  
FH 1894# FF 220-220#? FSIP ----

RTD

3964 (-1329)

It was decided that we should run casing to produce the 70' zone of the Lansing Formation and to try the lower zones. A Radiation Guard Log was run for correlation.  $5\frac{1}{2}$ " Casing was set at 3951' KB with a 10' shoe jt. and cemented to surface.

Sincerely,  
  
James C. Hess  
Geologist

ORIGINAL

**MALLARD JV, INC.**  
 DRILLING CONTRACTORS  
 P. O. Box 1009      McPHERSON, KS 67460

**DRILLER'S LOG**

OPERATOR: <b>Hess Oil Company</b> P. O. Box 1009 McPherson, KS 67460	WELL: <b>Brandt Farms #1</b>  API #: 15-179-21,060-00-00
COMMENCED: December 26, 1992	LOCATION: Approx. NE NW NE 490' FNL, 1650' FEL Section 22, Township 6S, Range 26W Sheridan County, KS
COMPLETED: January 2, 1993	
TOTAL DEPTH: <b>3964'</b>	ELEVATION: 2630' GL, 2635' KB

STATUS: Set Casing – Lansing Formation

SPUD: 5:15 pm 12/26/92

SIZE HOLE DRILLED: 12-1/4" x 340'

SURFACE CASING SIZE: 8-5/8" x 20# x 332.25' (9 jts.)

SET AT: 338.85'

CEMENT: 200 sacks 60/40 Pozmix, 2% gel, 3% cc

SIZE HOLE DRILLED: 7-7/8" x 3964'

PRODUCTION CASING: 5-1/2" x 14.5# x 3951' (98 jts.)

SET AT: 3951'

DV TOOL AT: 2226'

CEMENT 1ST STAGE: 150 sacks EA-2 expanding cement, 10% salt, 5% calseal

CEMENT TOP STAGE: 350 sacks HLC, 4% addgel, 1/4# floseal and 5# gilsonite/sk

PD: 2:40 pm 1/2/93

DRILL STEM TESTS: 4

ELECTRIC LOG: Yes

\*\*\* CERTIFICATE \*\*\*

I, James H. Hess, Vice-President of Mallard JV, Inc., hereby certify that this is a true and correct copy of the log of the **Brandt Farms #1** well as reflected by our files.

*James H. Hess*  
 \_\_\_\_\_  
 James H. Hess, Vice-President

STATE OF KANSAS      }  
 COUNTY OF McPHERSON    } ss.

Subscribed and sworn to before me this 12th day of January, 1993.

NOTARY PUBLIC - State of Kansas  
 BRYAN K. HESS  
 My Appt. Exp. 5-26-93

*Bryan K. Hess*  
 \_\_\_\_\_  
 Notary Public



WELL DATA  
FIELD \_\_\_\_\_ SEC. 02 TWP. 6S RNG. 28W COUNTY Sheridan STATE KS

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
INITIAL PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
PRESENT PROD: OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD  
COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
PACKER TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
MISC. DATA \_\_\_\_\_ TOTAL DEPTH 3964

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	W	14	5 1/2	KB	3951	
LINER						
TUBING						
OPEN HOLE			7 1/2		3964	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>5 1/2 w/ Antiskid</u>	<u>1EA</u>	<u>Howco</u>
GUIDE SHOES <u>S 9 Cent 5 1/2"</u>	<u>3EA</u>	
CENTRALIZERS <u>Fluid Master 1 1/2"</u>	<u>2EA</u>	
BOTTOM PLUG <u>DV Plus Set</u>		
TOP PLUG		
HEAD <u>DV 5 1/2"</u>	<u>1EA</u>	
PACKER <u>Cmt Basket 5 1/2"</u>	<u>1EA</u>	
OTHER		

**MATERIALS**

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL-API  
DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL-API  
PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.  
NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.  
FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
PERFFAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>1-1-93</u>	DATE <u>1-2-93</u>	DATE <u>1-2-93</u>	DATE <u>1-2-93</u>
TIME <u>1900</u>	TIME <u>0110</u>	TIME <u>0545</u>	TIME <u>1530</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
J. Moore	36655	
B4685	Tool P.U.	Oberlin KS
J. Alstom	3846	
66382	Bulk TK	Oberlin KS
J. Keenan	3243	
63503	HT-400RCM	Oberlin KS
S. Doka	50181	
83271	Bulk TK	Oberlin KS

DEPARTMENT Cement Csg  
DESCRIPTION OF JOB Cmt Prod. Csg. w/ 150SKS EA-2 1st Stage. 350 HLC 2nd Stage

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE X Jack Moore

HALLIBURTON OPERATOR Jack Moore COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>150</u>	<u>EA-2</u>			<u>5% Cel-Solv, 10% Sell, 25% D-Air, .4% Haled 322</u>	<u>1.34</u>	<u>15.36</u>
<u>2</u>	<u>350</u>	<u>HLC</u>			<u>4% Add Gel, 1/4" Fibre, 5% G.I</u>	<u>2.12</u>	<u>11.9</u>

**PRESSURES IN PSI**  
CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN. \_\_\_\_\_  
HYDRAULIC HORSEPOWER \_\_\_\_\_  
ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
AVERAGE RATES IN BPM \_\_\_\_\_  
TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
CEMENT LEFT IN PIPE \_\_\_\_\_  
FEET 11 REASON Shoe Joint

**SUMMARY**  
PRESLUSH: BBL-GAL 500-First Stage Mud Flush  
LOAD & BKDN: BBL-GAL \_\_\_\_\_ PAD: BBL-GAL 1st 2nd  
TREATMENT: BBL-GAL 1st 2nd DISPL. BBL-GAL 96.1-132  
CEMENT SLURRY: BBL-GAL 35.8 - 132  
TOTAL VOLUME: BBL-GAL \_\_\_\_\_

**REMARKS**  
See Job Log  
Thank you

CUSTOMER: Hess Oil Company LEASE: Head & Farm WELL NO. \_\_\_\_\_ JOB TYPE: Cmt Prod. Csg. DATE: 1-2-93

ORIGINAL

Phone 913-483-2527, Russell, Kansas  
Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812  
Phone Ness City 913-798-3843

*New*

# ALLIED CEMENTING CO., INC.

4102

Home Office P. O. Box 31

Russell, Kansas 67665

Date	12-26-92	Sec.	22	Twp.	6 <sup>S</sup>	Range	26 <sup>W</sup>	Called Out	6:00 P.M.	On Location	8:45 P.M.	Job Start	11:30 P.M.	Finish	Midnight	
Lease	Brandt Farms		Well No.	1		Location			Lucerne 2N 1/4W S. side		County	Sheridan		State	Ks.	
Contractor	Mallard Joint Venture, Inc. Rig #2					Owner	Same									
Type Job	Set Surface Pipe															
Hole Size	12 1/4"		T.D.	340'												
Csg.	8 7/8"		Depth	338'												
Tbg. Size			Depth													
Drill Pipe			Depth													
Tool			Depth													
Cement Left in Csg.	15'		Shoe Joint													
Press Max.			Minimum	-												
Meas Line			Displace	X												
Perf.																

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Hess Oil Company  
Street P.O. Box 1009  
City McPherson, State Ks. 67460  
The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.  
X *Jim Mink*  
CEMENT

### EQUIPMENT

No.	Cementer	Gary H. Marlyn K.
Pumptrk 191	Helper	
No.	Cementer	Joe S.
Pumptrk	Helper	
	Driver	
Bulktrk #212	Driver	

Amount Ordered 200 sks 60/40 per 2 bags, 32 c.c.

Consisting of

Common	120 sks @ 5.50/sk.	\$ 660.00
Poz. Mix	80 sks @ 2.50/sk.	200.00
Gel.	4 sks	n/c
Chloride	6 sks @ 21.00/sk.	126.00
Quickset		

Handling	21.00/sk. (200 sks)	200.00
Mileage	2.04 @ 1/sk./mi. (66 mi)	528.00
Sub Total		\$ 1714.00
Total		

### DEPTH of Job

Reference #1	Pumptruck-surface	\$ 380.00
#13	mileage @ 2.00/mi.	132.00
	1-8 7/8" wooden plug	42.00
	Sub Total	\$ 554.00
	Tax	
	Total	

Floating Equipment  
*Thanks*

Remarks: Cement Circulated.