

Operator Name Advantage Resources Inc.

SIDE TWO

Lease Name Hal Ross

Well # 1

Sec. 20 Twp. 28S Rge. 17 East West

County Kiowa County, Kansas

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1127	+1097
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	4084	-1860
List All E.Logs Run:		Lansing	4256	-2032
Dual Induction		B/ Kansas City	4641	-2417
Density/Neutron Porosity		Miss. Chat	4826	-2602
Guard Log		Kinderhook	4894	-2670
		TD	4952	-2628

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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"	28#	438'	60/40 Poz	225	3%cc 2%gel
Production	7-7/8"	4-1/2"	10.5#	4949'	ASC	175	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<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
4	4838-4841	300 gal. 15% FE 4838-4841

TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>4844.66</u>	Packer At <u>N/A</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SMD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Waiting on Pipeline				
Estimated Production Per 24 Hours	Oil <u>Slight Mist</u>	Gas <u>230</u> Mcf	Water <u>59</u> Bbls.	Gas-Oil Ratio <u></u> Gravity <u></u>

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: 4838-4841

Advantage Resources Inc.
#1 Hal Ross

CONFIDENTIAL

ORIGINAL

15-097-21405

4802-4835

Geological Formations and Porosity Zones

Drillstem Test #1

Strong blow. Gas to surface in 2 min.

Gauged IFP: 2,558 MCF

Gauged FFP:

10 min.	2558 MCF
20 min.	2558 MCF
30 min.	2319 MCF
40 min.	1949 MCF
50 min.	1949 MCF
60 min.	1887 MCF

RELEASED

APR 6 1998

FROM CONFIDENTIAL

Recovered:

390' Oil & Gas Cut Water
(25%G, 30%O, 45%W)
120' Slightly Oil & gas Cut Water
(10%G, 1%O, 89%W)
638# to 638# / 15 min.
1341# / 60 min.
549# to 549# / 60 min.
1341# / 90 min.
2389#
2330#
137 degrees

Initial Flow Pressures:
Initial Shut-In Pressure:
Final Flow Pressures:
Final Shut-In Pressure:
Initial Hydrostatic Pressure:
Final Hydrostatic Pressure:
Bottomhole Temperature:

KCC

JUL 2

CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 09 1996

CONSERVATION DIVISION
WICHITA KS

Date 4-12-96 District Wyo. Lodge Ticket No. 0057
 Company DUKE DRILLING Rig DUKE #7
 Lease HAL ROSS Well No. 1
 County KEOWA State KANSAS

Location 30-28-17W Field TRENHOLM EQUATOR 1/2 E, 1/4 S, 2/15

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 8 7/8" Type USFO Weight 28# Collar 3RD

Casing Depths: Top KB Bottom 438'

Drill Pipe: Size 4 1/2" Weight 16.6# Collars XH
 Open Hole: Size 12 1/4" T.D. 442 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0650 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: FRESH H₂O
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time 60:40:2
+ 3 1/2 (HOLE) Excess _____

Amt. 225 Skys Yield 1-26 ft³/sk Density 14.8 PPG

WATER: Lead _____ gals/sk Tail 5.6 gals/sk Total 30 Bbls.

Pump Trucks Used 237 Neal Reed
 Bulk Equip. 242 John Kelley

Float Equip: Manufacturer NOG

Shoe: Type JUL 2 Depth 433'

Float: Type _____ Depth 433'

Centralizers: Quantity _____ Plugs Top WOOD Btm. _____

Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type FRESH H₂O Amt. 27 1/2 Bbls. Weight 2.34 PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE HARVEY WICKRE

CEMENTER KELLY BRUNGAULT

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						ON LOCATION, REG UP
						RUN 8 7/8" LOG - BREAK PERMUTATION
						REG UP TO CEMENT PUMP
3:50	50				4 1/2	START FRESH H ₂ O
	200		5	5	4	FRESH H ₂ O IN - START CEMENT
	0		55.5	50.5	4 1/2	CEMENT IN - STOP PUMPS
	0					CHANGE VALVES - RELEASE PUG
	50				3 1/2	START DISPLACEMENT
	150		67.5	12	4	CEMENT PERMUTATES
4:15	250		83	15 1/2	4	PUG DOWN - STOP PULL
						RELEASED
						APR 6 1998

ORIGINAL ALLIED CEMENTING CO., INC. 1795

APR 29 1998

CONFIDENTIAL

SERVICE POINT: Street Bend

DATE <u>4-19-98</u>	SEC. <u>20</u>	TWP. <u>28</u>	RANGE <u>17</u>	LOC. <u>17</u>	CALLLED OUT <u>5:00 AM</u>	ON LOCATION <u>8:00 AM</u>	JOB START <u>3:15 PM</u>	JOB FINISH <u>4:15 PM</u>
LEASE <u>Hot bore</u>	WELL # <u>1</u>	LOCATION <u>Brendon, 2E, 12S, 4W</u>			COUNTY <u>Lincoln</u>	STATE <u>Ka.</u>		
OLD, OK (NEW) (Circle one)								
CONTRACTOR <u>Dubler #7</u>				OWNER <u>Same</u>				
TYPE OF JOB <u>Production</u>				CEMENT				
HOLE SIZE <u>17 7/8"</u>	T.D. <u>4950'</u>		AMOUNT ORDERED <u>200 lbs ASC</u>					
CASING SIZE <u>4 1/2" x 10 1/2"</u>	DEPTH <u>4950'</u>		500 gal Mud sweep					
TUBING SIZE	DEPTH		COMMON <u>200 lbs ASC @ 7.85</u>					
DRILL PIPE	DEPTH		PRICE AND TAX <u>1570.00</u>					
TOOL JOINT	DEPTH		MEAS. LINE <u>39.29</u>					
PRES. MAX <u>900#</u>	MINIMUM		CEMENT LEFT IN CSG. <u>39.29</u>					
GEL				CHLORIDE				
PERES <u>Displacement 78 1/2 bbls</u>				KOL SEAL 1000 @ <u>.38</u>				
				Mud Sweep 500 @ <u>1.80</u>				

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Tim D</u>	RECEIVED <u>JUL 09 1998</u>
# <u>181</u>	HELPER <u>Bob B.</u>	
BULK TRUCK	DRIVER <u>Chin B.</u>	
# <u>101</u>		
BULK TRUCK	DRIVER	
#		

HANDLING	<u>200</u>	@ <u>7.05</u>	<u>1410.00</u>
MILEAGE	<u>28</u>	@ <u>8.20</u>	<u>229.60</u>
RELEASED			<u>1680.60</u>
TOTAL			<u>3284.00</u>

APR 6 1998

REMARKS:

Run 4950' of mixed 10 1/2" casing. Circulation Pumped 500 gal Mud Sweep. Mixed 17 7/8" ASC, 5# Kol Seal/ft. Displaced Plug with 17 7/8" water. Float did hold.

FROM: CONFIDENTIAL

DEPTH OF JOB	<u>4950'</u>	
PUMP TRUCK CHARGE		<u>1229.00</u>
EXTRA-FOOTAGE		
MILEAGE	<u>28</u>	@ <u>2.35</u>
PLUG <u>1-4 1/2" filler</u>		@ <u>3.80</u>
TOTAL		<u>1332.80</u>

CHARGE TO: Advantage Resources, Inc.

STREET 1775 Speer Street Suite 1325

CITY Denver STATE Colorado ZIP 80203

CONFIDENTIAL

FLOAT EQUIPMENT

<u>1-4 1/2" Guide Shoe</u>	@ <u>140.00</u>	<u>140.00</u>
<u>1-4 1/2" Arrest</u>	@ <u>235.00</u>	<u>235.00</u>
<u>7-4 1/2" Centralizers</u>	@ <u>53.00</u>	<u>371.00</u>
TOTAL		<u>746.00</u>

Thank You!

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX 0

TOTAL CHARGE \$ 5362.80

DISCOUNT \$ 1072.56 IF PAID IN 30 DAYS

Net \$ 4290.24

OK to pay ATB

SIGNATURE [Signature]

BJC

ORIGINAL

Extra

MAY - 6 1996

J.E. Jespersen
Petroleum Geologist
BIG J CONSULTANTS
P.O. Box 16418
Wichita, KS 67216

CONFIDENTIAL

RELEASED

APR 6 1998

FROM CONFIDENTIAL

Geological Report

15-097-21405

Advantage Resources, Inc.
#1 HAL ROSS
NE/4 SE/4 (200' FSL, 800' FEL)
Section 20-T28S-R17W
Kiowa County, Kansas

KCC
JUL 2
CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

JUL 09 1996

CONSERVATION DIVISION
WICHITA, KS

Advantage Resources Inc.
#1 Hal Ross

RELEASED

J.E. Jespersen
Page 2

APR 6 1998

FROM CONFIDENTIAL

April 24, 1996

#1 HAL ROSS
NE/4 SE/4 (200' FSL, 800' FEL)
Section 20-T28S-R17W
Clowa County, Kansas

Field:
Elevations: 2224 Kelly Bushing
2221 Derrick Floor
2211 Ground Level

Wellsite Geologist: J.E. Jespersen
Contractor: Duke Drilling Inc. -Rig #7
Commenced: April 12, 1996
Completed: April 19, 1996
Rotary Total Depth: 4950 feet
Log Total Depth: 4952 feet
Surface Casing: 8 5/8" @ 438 feet with 225 sacks
Production Casing: 4 1/2" @ 4948 with 200 sacks
Electrical Surveys: ELI Wireline: Dual Induction, CD/CN Rag Log
Hole Size: 12 1/4" from surface to 442 feet
7 7/8" from 442 to 4950 feet

General Information: Samples saved from 2400 feet. Drilling time kept from 2400 to 4950 feet (RTD). Samples examined from 2400 to 4950 feet (RTD). Drilling supervised from 2400 feet to RTD. Mud up at 3450 feet. Mud type, chemical.

CORRELATION CHART
#1 HAL ROSS

Owner	Advantage Resources	J.M. Huber	Vincent Oil	Godsey, et al	Standind Oil	
	<u>#1 HAL ROSS</u> 800' FEL, 2000' FSL NE/SE Sec 20	<u>#1 Cullins</u> NW/NW/SE Sec 20	<u>#1 Ross</u> SE/SW Sec 20	<u>#1 M. Hart</u> SE/SW/NW Sec 20	<u>#1 Repp</u> NE/NE/NW Sec 29	
Elev KB 2211 GL	2224 KB	2227	2229	2228	2236 (est.)	
	<u>SAMPLE</u>	<u>ELECTRIC</u>				
Anhydrite	1130 +1094	1127 +1097	1152 +1075	+1099	+1093	+1101
B/Anhydrite	1153 +1071	1150 +1074	1177 +1050	+1077	+1070	+1076
Chase Group	2465 - 241	2463 - 239		- 243	- 247	2483 - 247
Winfield	2534 - 310	2533 - 309	2530 - 303	- 308	- 308	2542 - 306
Towanda	2575 - 351	2575 - 351	2565 - 338	- 345		
Ft Riley	2597 - 373	2596 - 372	2596 - 369	- 376	- 376	2610 - 374
B/Flor Flint	2722 - 498	2720 - 496	2735 - 508	- 501	- 502	2740 - 504
Council Grove	2840 - 616	2837 - 613		- 620	- 622	2855 - 619
Cottonwood	2998 - 774	2986 - 762		- 773	- 774	3015 - 779
Wabanssee	3292 -1068	3290 - 1066		-1077	-1082	3313 -1077
Tarkio	3453 -1229	3452 - 1228	3460 -1233	-1229	-1232	3465 -1229
Emporia	3536 -1312	3536 - 1312	3540 -1313	-1313	-1317	3550 -1314
Howard	3656 -1432	3660 - 1336	3660 -1433	-1431	-1437	3665 -1429
Topeka	3683 -1459	3685 - 1461	3686 -1459	-1458	-1462	3695 -1459
Heebner	4085 -1861	4084 -1860	4087 -1860	-1865	-1862	4104 -1868
Brown Lime	4238 -2014	4238 - 2014	4240 -2013	-2017	-2016	4257 -2021
Lansing	4256 -2032	4256 - 2032	4259 -2032	-2034	-2035	4275 -2039
Stark	4548 -2324	4548 - 2324	4548 -2321	-2330	-2328	4566 -2330
B/KC	4642 -2418	4641 - 2417	4641 -2414	-2421	-2420	4658 -2422
Altamont	4697 -2473	4698 - 2474	4697 -2470	-2477	-2476	4712 -2476
Pawnee	4738 -2514	4739 - 2515	4739 -2512	-2517	-2519	4752 -2516
Cherokee Sh	4779 -2555	4778 - 2554	4778 -2551	-2558	-2554	4793 -2557
Mississippian	4825 -2601	4826 - 2602	4835 -2608	-2608	-2607	4840 -2604
Kinderhook	4892 -2668	4894 - 2670		-2656		4891 -2655
TD	4950 -2726	4952 - 2728	4842 -2615	-2721	-2657	4970 -2734

NOTE: Pipe strap at 4835 feet was .53 feet long to the board.

DAILY PENETRATION

<u>DATE</u>	<u>DEPTH</u>	<u>REMARKS</u>
4/12/96	- 0 -	Spud 10:15 AM 4/12/96 Set 8 5/8" @ 438' with 225 sx Plug down 4:15 PM 4/12 Drilled plug 12:15 AM 4/13
4/13	900	<u>Anhydrite</u> <u>1130 to 1153</u>
4/14	2405	Drilling
4/15	3280	Drilling
4/16	4015	Drilling
4/17	4550	Drilling
4/18	4835	<u>DST #1</u> <u>4802-4835</u> RTD @ 4950' @ 7:22 4/18/96
4/19	4950	RTD - Ran ELI Dual Induction, CD/CN Rag log 4 1/2" set @ 4948 feet with 200 sa

BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS
S	12 1/4	SEC	S 33	442	442	2 1/2
1	7 7/8	W/M	51 F	4950	4508	103

MUD RECORD

Dombar Mud Inc.

CHK	DEPTH	WT	VIS	FIL	PH	PV	YP	GELS	CHLORIDES	SOL
1	3480	8.7	63	11.2	11.0	17	24	8/22	4,000	2.7%
2	4060	9.1	44	12.0	10.0	17	16	8/20	4,500	5.5%
3	4588	9.2	45	8.8	10.5	16	17	8/22	3,400	6.2%
4	4835	9.2	48	10.4	10.5	16	20	10/24	4,900	6.1%

DRILL STEM TESTS

NO	INTERVAL	IFP	ISIP	FFP	FSIP	IHP/FHP
1	3802-3835	638-638/15	1341/60	549-549/60	1341/90	2389-2330
	Recovery:	GTS 2 minutes				
		Ga: 2558	MCF	IFP		
		Ga: 2558	MCF	FFP	10 minutes	
		2558	"		20 minutes	
		2319	"		30 minutes	
		1949	"		40 minutes	
		1949	"		50 minutes	
		1887	"		60 minutes	
		390' Oil and gas cut water				
		120' Slightly oil and gas cut water				

Geological Formations and Porosity Zones

A detailed lithological log was maintained from 2400 feet to 4950 feet (RTD). The following are formation tops, recoveries of drillstem tests, descriptions of reservoirs containing shows of oil and descriptions of reservoirs felt pertinent to the accumulation of hydrocarbons in the area. The depths are interpolated from drillers measurements and measured from the kelly bushing.

Anhydrite	Sample	1130 +1094
	E-Log	1127 +1097

Cottonwood	Sample	2998 - 774
	E-Log	2986 - 762

SL 2998-3003 Limestone, light grey, fine crystalline, sucrosic. Good intercrystalline porosity. No shows. No fluorescence; no odor. Judged this zone to be of no commercial value.

SL 3040-3050 Limestone, white, fine crystalline, chalky. Good intercrystalline porosity. No shows. No fluorescence; no odor. Judged this zone to be of no commercial value.

Tarkio	Sample	3453 -1229
	E-Log	3452 -1228

Emporia	Sample	3536 -1312
	E-Log	3536 -1312

SL 3538-3542 Limestone, light buff, fine crystalline, fossiliferous. Poor
EL 3539-3542 interfossiliferous and intercrystalline porosity. No shows. No
fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 3595-3600 Limestone, light buff, fine crystalline, fair interfossiliferous and
EL 3596-3600 intercrystalline porosity. No shows. No fluorescence; no odor.
Judged this zone to be of no commercial value.

Howard	Sample	3656 +1432
	E-Log	3660 -1436

Geological Formations and Porosity Zones

SL 3657-3675 Limestone, light buff, fine crystalline, fossiliferous. Fair to good
EL 3660-3674 intercrystalline porosity. No shows. No fluorescence; no odor.
Judged this zone to be of no commercial value.

Topeka

Sample 3683 -1459
E-Log 3685 -1461

SL 3683-3686 Limestone, white, fine crystalline, fossiliferous, chalky. Good
EL 3688-3691 intercrystalline porosity. No shows. No fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 3733-3761 Limestone, light grey, fine crystalline, fossiliferous. Fair to good
EL 3731-3744 interfossiliferous and intercrystalline porosity. No shows. No
fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 3799-3851 Limestone, light buff to buff, fine crystalline, sucrosic. Good
EL 3810-3854 intercrystalline porosity. No shows. No fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 3923-3942 Limestone, light buff, fine crystalline, fossiliferous. Good
EL 3930-3942 interfossiliferous and intercrystalline porosity. No shows. No
fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 3996-4007 Limestone, white to light buff, fine crystalline, cherty. Fair
EL 3994-4004 intercrystalline and pinpoint porosity. No shows. No
fluorescence; no odor.

Heebner

Sample 4085 -1861
E-Log 4084 -1860

Geological Formations and Porosity Zones

Toronto

Sample 4103 -1879
E-Log 4103 -1879

SL 4107-4116 Limestone, white to light grey, fine crystalline, fossiliferous,
EL 4107-4110 chalky. Fair to poor intercrystalline porosity. No shows. No
fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 4123-4131 Limestone, light grey, very fine crystalline, chalky. Fair
EL 4124-4126 intergranular porosity. No shows. No fluorescence; no odor.
Judged this zone to be of no commercial value.

Brown Lime

Sample 4238 -2014
E-Log 4238 -2014

Lansing

Sample 4256 -2032
E-Log 4256 -2032

(A-Zone)

SL 4260-4264 Limestone, buff, fine to medium crystalline, oolitic. Good
EL 4260-4265 oolitic porosity. **No free oil; trace brown live oil stain; very
slight odor.** Good fluorescence; fair plume. **12-unit gas kick on
hotwire.**
Judged this zone to be of no commercial value.

SL 4294-4300 Limestone, white to cream, fine crystalline, fossiliferous, chalky.
EL 4293-4298 Fair to good interfossiliferous and intergranular porosity. No
shows. No fluorescence; no odor.

SL 4312-4318 Limestone, light buff, fine crystalline, oolitic. Fair oolitic
EL 4310-4316 porosity. No shows. No fluorescence; no odor.
Judged this zone to be of no commercial value.

Geological Formations and Porosity Zones

SL 4350-4360 Limestone, buff, fine crystalline, fossiliferous, oolitic. Fair to good
EL 4350-4360 interfossiliferous and oolitic porosity. No shows. No
fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 4377-4387 Limestone, light buff, fine crystalline, sucrosic. Fair to good
EL 4374-4388 intercrystalline porosity. No shows. No fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 4422-4427 Limestone, buff, fine crystalline, oolitic. Good oolitic porosity.
EL 4422-4426 No shows. No fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 4468-4483 Limestone, white to light grey, fine crystalline, chalky. Fair
EL 4466-4438 intergranular porosity. No shows. No fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 4490-4497 Limestone, light grey, fine crystalline, sucrosic. Fair to good
EL 4490-4496 intercrystalline and vugular porosity. No shows. No fluorescence;
no odor.
Judged this zone to be of no commercial value.

SL 4510-4516 Limestone, buff, fine to medium crystalline. Fair intercrystalline
EL 4506-4510 porosity. No shows. No fluorescence; no odor.
Judged this zone to be of no commercial value.

Stark Sample 4548 -2324
E-Log 4548 -2324

Hushpuckney Sample 4599 -2375
E-Log 4598 -2374

Geological Formations and Porosity Zones

SL 4607-4610 Limestone, light grey, fine crystalline, fossiliferous, chalky,
EL 4610-4616 sucrosic. Fair intercrystalline porosity. No shows. No
fluorescence; no odor.
Judged this zone to be of no commercial value.

Base Kansas City	Sample	4642	-2418
	E-Log	4641	-2417

Attamont	Sample	4697	-2473
	E-Log	4698	-2474

Pawnee	Sample	4738	-2514
	E-Log	4739	-2515

Cherokee Shale	Sample	4779	-2555
	E-Log	4778	-2554

Mississippian	Sample	4825	-2601
	E-Log	4826	-2602

SL 4825-4844 Chert, white to amber, fresh, fossiliferous, fractured. Very little
EL 4826-4850 fluorescence; no plume; very slight odor; trace very light oil stain.
16-unit gas kick on hotwire. Tested this zone. (See DST #1)
Due to the test results, recommend the top of this zone be
perforated and further tested.

Geological Formations and Porosity Zones

Drillstem Test #1

4802-4835

Strong blow. Gas to surface in 2 min.

Gauged IFP: 2,558 MCF

Gauged FFP:

10 min.	2558 MCF
20 min.	2558 MCF
30 min.	2319 MCF
40 min.	1949 MCF
50 min.	1949 MCF
60 min.	1887 MCF

Recovered:

390' Oil & Gas Cut Water

(25%G, 30%O, 45%W)

120' Slightly Oil & gas Cut Water

(10%G, 1%O, 89%W)

Initial Flow Pressures:

638# to 638# / 15 min.

Initial Shut-In Pressure:

1341# / 60 min.

Final Flow Pressures:

549# to 549# / 60 min.

Final Shut-In Pressure:

1341# / 90 min.

Initial Hydrostatic Pressure:

2389#

Final Hydrostatic Pressure:

2330#

Bottomhole Temperature:

137 degrees

SL 4844-4864

EL 4850-4864

Chert, white to amber, fresh, fossiliferous, some tripolitic. Very little fluorescence; no plume; very slight odor. **Very rare gilsonitic stain. Hot-wire after test ranged 70 to 75 units.** This is a continuation of the zone above and is not recommended for further testing.

SL 4875-4850

EL 4877-4892

Chert, white to amber, fresh, fossiliferous, fractured. Very little fluorescence; no plume; no shows; no odor. **Hot-wire carrying 50-units.** Due to lack of shows and log calculations, judged this zone to be of no commercial value.

Kinderhook

Sample 4892 -2668

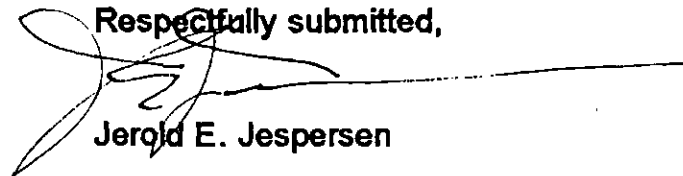
E-Log 4894 -2670

REMARKS and RECOMMENDATIONS

Due to favorable results of the drill stem test and the structural position of the Mississippi chert section, recommend 4 1/2" casing be run. Recommend the top few feet of the Mississippi chert section be perforated and completed as a commercial producer.

No other zones merit any further testing.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'J.E. Jespersen', is written over a horizontal line. The signature is stylized and cursive.

Jerold E. Jespersen

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. COUNTY STATE
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

COMPANY *Advantage Resources* FARM *Holt Ross* WELL NO. *1*
 SEC. TWP. RGE. LOC. COUNTY STATE *KS*
 CONTRACTOR *BUKE Rig #7* SIZE HOLE *7 7/8* DRILL PIPE *4 1/2 IN*
 REMARKS: *67 - 54' 000*
RWD - 1000 PWT
54 5PM
308 8PM
 SIZE PUMP LINERS *6"* LENGTH STROKE *15'*
75 RPM

DATE	DEPTH	TIME OF CLOCK	MIN.	REMARKS
11/20	01			
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DATE	DEPTH	TIME OF CLOCK	MIN.	REMARKS
11/21	01			
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DATE	DEPTH	TIME OF CLOCK	MIN.	REMARKS
11/21	01			
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DATE	DEPTH	TIME OF CLOCK	MIN.	REMARKS
11/21	01			
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DATE	DEPTH	TIME OF CLOCK	MIN.	REMARKS
11/21	01			
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DATE	DEPTH	TIME OF CLOCK	MIN.	REMARKS
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DATE	DEPTH	TIME OF CLOCK	MIN.	REMARKS
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DATE	DEPTH	TIME OF CLOCK	MIN.	REMARKS
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COMPANY _____ FARM _____ COUNTY _____ STATE _____ WELL NO. _____
 SEC. TWP. RGE. LOC. _____ SIZE HOLE _____ DRILL PIPE _____
 CONTRACTOR _____ SIZE PUMP LINERS _____ LENGTH STROKES _____
 REMARKS: _____

DATE	DEPTH	TIME	WIRE	REMARKS
3/10	30	10:30	2	
3/10	35	11:00	2	
3/10	40	11:30	2	
3/10	45	12:00	2	
3/10	50	12:30	2	
3/10	55	13:00	2	
3/10	60	13:30	2	
3/10	65	14:00	2	
3/10	70	14:30	2	
3/10	75	15:00	2	
3/10	80	15:30	2	
3/10	85	16:00	2	
3/10	90	16:30	2	
3/10	95	17:00	2	
3/10	100	17:30	2	
3/10	105	18:00	2	
3/10	110	18:30	2	
3/10	115	19:00	2	
3/10	120	19:30	2	
3/10	125	20:00	2	
3/10	130	20:30	2	
3/10	135	21:00	2	
3/10	140	21:30	2	
3/10	145	22:00	2	
3/10	150	22:30	2	
3/10	155	23:00	2	
3/10	160	23:30	2	
3/10	165	24:00	2	
3/10	170	24:30	2	
3/10	175	25:00	2	
3/10	180	25:30	2	
3/10	185	26:00	2	
3/10	190	26:30	2	
3/10	195	27:00	2	
3/10	200	27:30	2	
3/10	205	28:00	2	
3/10	210	28:30	2	
3/10	215	29:00	2	
3/10	220	29:30	2	
3/10	225	30:00	2	
3/10	230	30:30	2	
3/10	235	31:00	2	
3/10	240	31:30	2	
3/10	245	32:00	2	
3/10	250	32:30	2	
3/10	255	33:00	2	
3/10	260	33:30	2	
3/10	265	34:00	2	
3/10	270	34:30	2	
3/10	275	35:00	2	
3/10	280	35:30	2	
3/10	285	36:00	2	
3/10	290	36:30	2	
3/10	295	37:00	2	
3/10	300	37:30	2	
3/10	305	38:00	2	
3/10	310	38:30	2	
3/10	315	39:00	2	
3/10	320	39:30	2	
3/10	325	40:00	2	
3/10	330	40:30	2	
3/10	335	41:00	2	
3/10	340	41:30	2	
3/10	345	42:00	2	
3/10	350	42:30	2	
3/10	355	43:00	2	
3/10	360	43:30	2	
3/10	365	44:00	2	
3/10	370	44:30	2	
3/10	375	45:00	2	
3/10	380	45:30	2	
3/10	385	46:00	2	
3/10	390	46:30	2	
3/10	395	47:00	2	
3/10	400	47:30	2	
3/10	405	48:00	2	
3/10	410	48:30	2	
3/10	415	49:00	2	
3/10	420	49:30	2	
3/10	425	50:00	2	
3/10	430	50:30	2	
3/10	435	51:00	2	
3/10	440	51:30	2	
3/10	445	52:00	2	
3/10	450	52:30	2	
3/10	455	53:00	2	
3/10	460	53:30	2	
3/10	465	54:00	2	
3/10	470	54:30	2	
3/10	475	55:00	2	
3/10	480	55:30	2	
3/10	485	56:00	2	
3/10	490	56:30	2	
3/10	495	57:00	2	
3/10	500	57:30	2	
3/10	505	58:00	2	
3/10	510	58:30	2	
3/10	515	59:00	2	
3/10	520	59:30	2	
3/10	525	60:00	2	
3/10	530	60:30	2	
3/10	535	61:00	2	
3/10	540	61:30	2	
3/10	545	62:00	2	
3/10	550	62:30	2	
3/10	555	63:00	2	
3/10	560	63:30	2	
3/10	565	64:00	2	
3/10	570	64:30	2	
3/10	575	65:00	2	
3/10	580	65:30	2	
3/10	585	66:00	2	
3/10	590	66:30	2	
3/10	595	67:00	2	
3/10	600	67:30	2	
3/10	605	68:00	2	
3/10	610	68:30	2	
3/10	615	69:00	2	
3/10	620	69:30	2	
3/10	625	70:00	2	
3/10	630	70:30	2	
3/10	635	71:00	2	
3/10	640	71:30	2	
3/10	645	72:00	2	
3/10	650	72:30	2	
3/10	655	73:00	2	
3/10	660	73:30	2	
3/10	665	74:00	2	
3/10	670	74:30	2	
3/10	675	75:00	2	
3/10	680	75:30	2	
3/10	685	76:00	2	
3/10	690	76:30	2	
3/10	695	77:00	2	
3/10	700	77:30	2	
3/10	705	78:00	2	
3/10	710	78:30	2	
3/10	715	79:00	2	
3/10	720	79:30	2	
3/10	725	80:00	2	
3/10	730	80:30	2	
3/10	735	81:00	2	
3/10	740	81:30	2	
3/10	745	82:00	2	
3/10	750	82:30	2	
3/10	755	83:00	2	
3/10	760	83:30	2	
3/10	765	84:00	2	
3/10	770	84:30	2	
3/10	775	85:00	2	
3/10	780	85:30	2	
3/10	785	86:00	2	
3/10	790	86:30	2	
3/10	795	87:00	2	
3/10	800	87:30	2	
3/10	805	88:00	2	
3/10	810	88:30	2	
3/10	815	89:00	2	
3/10	820	89:30	2	
3/10	825	90:00	2	
3/10	830	90:30	2	
3/10	835	91:00	2	
3/10	840	91:30	2	
3/10	845	92:00	2	
3/10	850	92:30	2	
3/10	855	93:00	2	
3/10	860	93:30	2	
3/10	865	94:00	2	
3/10	870	94:30	2	
3/10	875	95:00	2	
3/10	880	95:30	2	
3/10	885	96:00	2	
3/10	890	96:30	2	
3/10	895	97:00	2	
3/10	900	97:30	2	
3/10	905	98:00	2	
3/10	910	98:30	2	
3/10	915	99:00	2	
3/10	920	99:30	2	
3/10	925	100:00	2	

DATE	DEPTH	TIME	WIRE	REMARKS
3/10	30	10:30	2	
3/10	35	11:00	2	
3/10	40	11:30	2	
3/10	45	12:00	2	
3/10	50	12:30	2	
3/10	55	13:00	2	
3/10	60	13:30	2	
3/10	65	14:00	2	
3/10	70	14:30	2	
3/10	75	15:00	2	
3/10	80	15:30	2	
3/10	85	16:00	2	
3/10	90	16:30	2	
3/10	95	17:00	2	
3/10	100	17:30	2	
3/10	105	18:00	2	
3/10	110	18:30	2	
3/10	115	19:00	2	
3/10	120	19:30	2	
3/10	125	20:00	2	
3/10	130	20:30	2	
3/10	135	21:00	2	
3/10	140	21:30	2	
3/10	145	22:00	2	
3/10	150	22:30	2	
3/10	155	23:00	2	
3/10	160	23:30	2	
3/10	165	24:00	2	
3/10	170	24:30	2	
3/10	175	25:00	2	
3/10	180	25:30	2	
3/10	185	26:00	2	
3/10	190	26:30	2	
3/10	195	27:00	2	
3/10	200	27:30	2	
3/10	205	28:00	2	
3/10	210	28:30	2	
3/10	215	29:00	2	
3/10	220	29:30	2	
3/10	225	30:00	2	
3/10	230	30:30	2	
3/10	235	31:00	2	
3/10	240	31:30	2	
3/10	245	32:00	2	
3/10	250	32:30	2	
3/10	255	33:00	2	
3/10	260	33:30	2	
3/10	265	34:00	2	
3/10	270	34:30	2	
3/10	275	35:00	2	
3/10	280	35:30	2	
3/10	285	36:00	2	
3/10	290	36:30	2	
3/10	295	37:00	2	
3/10	300	37:30	2	
3/10	305	38:00	2	
3/10	310	38:30	2	
3/10	315	39:00	2	
3/10	320	39:30	2	
3/10	325	40:00	2	
3/10	330	40:30	2	
3/10	335	41:00	2	
3/10	340	41:30	2	
3/10	345	42:00	2	
3/10	350	42:30	2	
3/10	355	43:00	2	
3/10	360	43:30	2	
3/10	365	44:00	2	
3/10	370	44:30	2	
3/10	375	45:00	2	
3/10	380	45:30	2	
3/10	385	46:00	2	
3/10	390	46:30	2	
3/10	395	47:00	2	
3/10	400	47:30	2	
3/10	405	48:00	2	
3/10	410	48:30	2	
3/10	415	49:00	2	
3/10	420	49:30	2	
3/10	425	50:00	2	
3/10	430	50:30	2	
3/10	435	51:00	2	
3/10	440	51:30	2	
3/10	445	52:00	2	
3/10	450	52:30	2	
3/10	455	53:00	2	
3/10	460	53:30	2	
3/10	465	54:00	2	
3/10	470	54:30	2	
3/10	475	55:00	2	
3/10	480	55:30	2	
3/10	485	56:00	2	
3/10	490	56:30	2	
3/10	495	57:00	2	
3/10	500	57:30	2	
3/10	505	58:00	2	
3/10	510	58:30	2	
3/10	515	59:00	2	
3/10	520	59:30	2	
3/10	525	60:00	2	
3/10	530	60:30	2	
3/10	535	61:00	2	
3/10	540	61:30	2	
3/10	545	62:00	2	
3/10	550	62:30	2	
3/10	555	63:00	2	
3/10	560	63:30	2	
3/10	565	64:00	2	
3/10	570	6		

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. COUNTY STATE
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. COUNTY STATE
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE 4/16/66 AM

DEPTH	TIME O'CLOCK	MIN.	REMARKS
20	2:15	2	
22	2:15	2	
24	2:15	2	
26	2:15	2	
28	2:15	2	
30	2:15	2	
32	2:15	2	
34	2:15	2	
36	2:15	2	
38	2:15	2	
40	2:15	2	
42	2:15	2	
44	2:15	2	
46	2:15	2	
48	2:15	2	
50	2:15	2	
52	2:15	2	
54	2:15	2	
56	2:15	2	
58	2:15	2	
60	2:15	2	
62	2:15	2	
64	2:15	2	
66	2:15	2	
68	2:15	2	
70	2:15	2	
72	2:15	2	
74	2:15	2	
76	2:15	2	
78	2:15	2	
80	2:15	2	
82	2:15	2	
84	2:15	2	
86	2:15	2	
88	2:15	2	
90	2:15	2	
92	2:15	2	
94	2:15	2	
96	2:15	2	
98	2:15	2	
100	2:15	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
102	2:15	2	
104	2:15	2	
106	2:15	2	
108	2:15	2	
110	2:15	2	
112	2:15	2	
114	2:15	2	
116	2:15	2	
118	2:15	2	
120	2:15	2	
122	2:15	2	
124	2:15	2	
126	2:15	2	
128	2:15	2	
130	2:15	2	
132	2:15	2	
134	2:15	2	
136	2:15	2	
138	2:15	2	
140	2:15	2	
142	2:15	2	
144	2:15	2	
146	2:15	2	
148	2:15	2	
150	2:15	2	
152	2:15	2	
154	2:15	2	
156	2:15	2	
158	2:15	2	
160	2:15	2	
162	2:15	2	
164	2:15	2	
166	2:15	2	
168	2:15	2	
170	2:15	2	
172	2:15	2	
174	2:15	2	
176	2:15	2	
178	2:15	2	
180	2:15	2	
182	2:15	2	
184	2:15	2	
186	2:15	2	
188	2:15	2	
190	2:15	2	
192	2:15	2	
194	2:15	2	
196	2:15	2	
198	2:15	2	
200	2:15	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
202	2:15	2	
204	2:15	2	
206	2:15	2	
208	2:15	2	
210	2:15	2	
212	2:15	2	
214	2:15	2	
216	2:15	2	
218	2:15	2	
220	2:15	2	
222	2:15	2	
224	2:15	2	
226	2:15	2	
228	2:15	2	
230	2:15	2	
232	2:15	2	
234	2:15	2	
236	2:15	2	
238	2:15	2	
240	2:15	2	
242	2:15	2	
244	2:15	2	
246	2:15	2	
248	2:15	2	
250	2:15	2	
252	2:15	2	
254	2:15	2	
256	2:15	2	
258	2:15	2	
260	2:15	2	
262	2:15	2	
264	2:15	2	
266	2:15	2	
268	2:15	2	
270	2:15	2	
272	2:15	2	
274	2:15	2	
276	2:15	2	
278	2:15	2	
280	2:15	2	
282	2:15	2	
284	2:15	2	
286	2:15	2	
288	2:15	2	
290	2:15	2	
292	2:15	2	
294	2:15	2	
296	2:15	2	
298	2:15	2	
300	2:15	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
302	2:15	2	
304	2:15	2	
306	2:15	2	
308	2:15	2	
310	2:15	2	
312	2:15	2	
314	2:15	2	
316	2:15	2	
318	2:15	2	
320	2:15	2	
322	2:15	2	
324	2:15	2	
326	2:15	2	
328	2:15	2	
330	2:15	2	
332	2:15	2	
334	2:15	2	
336	2:15	2	
338	2:15	2	
340	2:15	2	
342	2:15	2	
344	2:15	2	
346	2:15	2	
348	2:15	2	
350	2:15	2	
352	2:15	2	
354	2:15	2	
356	2:15	2	
358	2:15	2	
360	2:15	2	
362	2:15	2	
364	2:15	2	
366	2:15	2	
368	2:15	2	
370	2:15	2	
372	2:15	2	
374	2:15	2	
376	2:15	2	
378	2:15	2	
380	2:15	2	
382	2:15	2	
384	2:15	2	
386	2:15	2	
388	2:15	2	
390	2:15	2	
392	2:15	2	
394	2:15	2	
396	2:15	2	
398	2:15	2	
400	2:15	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
402	2:15	2	
404	2:15	2	
406	2:15	2	
408	2:15	2	
410	2:15	2	
412	2:15	2	
414	2:15	2	
416	2:15	2	
418	2:15	2	
420	2:15	2	
422	2:15	2	
424	2:15	2	
426	2:15	2	
428	2:15	2	
430	2:15	2	
432	2:15	2	
434	2:15	2	
436	2:15	2	
438	2:15	2	
440	2:15	2	
442	2:15	2	
444	2:15	2	
446	2:15	2	
448	2:15	2	
450	2:15	2	
452	2:15	2	
454	2:15	2	
456	2:15	2	
458	2:15	2	
460	2:15	2	
462	2:15	2	
464	2:15	2	
466	2:15	2	
468	2:15	2	
470	2:15	2	
472	2:15	2	
474	2:15	2	
476	2:15	2	
478	2:15	2	
480	2:15	2	
482	2:15	2	
484	2:15	2	
486	2:15	2	
488	2:15	2	
490	2:15	2	
492	2:15	2	
494	2:15	2	
496	2:15	2	
498	2:15	2	
500	2:15	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
502	2:15	2	
504	2:15	2	
506	2:15	2	
508	2:15	2	
510	2:15	2	
512	2:15	2	
514	2:15	2	
516	2:15	2	
518	2:15	2	
520	2:15	2	
522	2:15	2	
524	2:15	2	
526	2:15	2	
528	2:15	2	
530	2:15	2	
532	2:15	2	
534	2:15	2	
536	2:15	2	
538	2:15	2	
540	2:15	2	
542	2:15	2	
544	2:15	2	
546	2:15	2	
548	2:15	2	
550	2:15	2	
552	2:15	2	
554	2:15	2	
556	2:15	2	
558	2:15	2	
560	2:15	2	
562	2:15	2	
564	2:15	2	
566	2:15	2	
568	2:15	2	
570	2:15	2	
572	2:15	2	
574	2:15	2	
576	2:15	2	
578	2:15	2	
580	2:15	2	
582	2:15	2	
584	2:15	2	
586	2:15	2	
588	2:15	2	
590	2:15	2	
592	2:15	2	
594	2:15	2	
596	2:15	2	
598	2:15	2	
600	2:15	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
602	2:15	2	
604	2:15	2	
606	2:15	2	
608	2:15	2	
610	2:15	2	
612	2:15	2	
614	2:15	2	
616	2:15	2	
618	2:15	2	
620	2:15	2	
622	2:15	2	
624	2:15	2	
626	2:15	2	
628	2:15	2	
630	2:15	2	
632	2:15	2	
634	2:15	2	
636	2:15	2	
638	2:15	2	
640	2:15	2	
642	2:15	2	
644	2:15	2	
646	2:15	2	
648	2:15	2	
650	2:15	2	
652	2:15	2	
654	2:15	2	
656	2:15	2	
658	2:15	2	
660	2:15	2	
662	2:15	2	
664	2:15	2	
666	2:15	2	
668	2:15	2	
670	2:15	2	
672	2:15	2	
674	2:15	2	
676	2:15	2	
678	2:15	2	
680	2:15	2	
682	2:15	2	
684	2:15	2	
686	2:15	2	
688	2:15	2	
690	2:15	2	
692	2:15	2	
694	2:15	2	
696	2:15	2	
698	2:15	2	
700	2:15	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
702	2:15	2	
704	2:15	2	
706	2:15	2	
708	2:15	2	
710	2:15	2	
712	2:15	2	
714	2:15	2	
716	2:15	2	
718	2:15	2	
720	2:15	2	
722	2:15	2	
724	2:15	2	
726	2:15	2	
728	2:15	2	
730	2:15	2	
732	2:15	2	
734	2:15</		

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. COUNTY STATE
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. COUNTY STATE
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE 4/16/76 PM

DEPTH	TIME O'CLOCK	MIN.	REMARKS
01	08-30	3	
	08-4	4	
	12	3 1/2	
	16	4	
05	19-3/4		
	23	4	
	27	3 1/2	
	31	4	
	34	3	
10	35 1/2	1 1/2	
	37	1 1/2	
	39	2	
	40 1/2	1 1/2	
	41 1/2	1	
15	42 1/2	1	
	47	1 1/2	
	49 1/2	1 1/2	
	50 1/2	1	
	53 1/2	2	
20	59	3 1/2	
	50 1/2	3	
	04	4	
	09	2 1/2	
25	13	4	
	16	4	
	20	3 1/2	
	24 1/2	4 1/2	
	27 1/2	7	
30	31	3 1/2	
	35	4	
	39	4	
	43 1/2	4 1/2	
	47	3	
35	51	4	
	54	3	
	58	4	
	1:02	4 1/2	
	06	4	
40	09	2 1/2	
	13	4 1/2	
	18	4 1/2	
	22	4	
	26	4	
45	29	3 1/2	
	33	4 1/2	
	37	4	
	41	4	
50	45	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
43 1/2	05	2	
	12	1 1/2	
	24	1 1/2	
	55	1	
55	56	1	
	57	1	
	59	2	
	1:00	1 1/2	
	02	2	
60	03	1	
	05	1 1/2	
	07	2	
	09	2	
	11	2	
65	14 1/2	2 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3	
	27	3	
70	30	2 1/2	
	32	2	
	34	2	
	37	3	
	41	3 1/2	
75	43 1/2	2 1/2	
	47	1	
	50 1/2	1	
	54	1 1/2	
80	57	1	
	58	1 1/2	
	59	1	
	1:02	1	
	01	1	
85	02	1	
	04	1	
	06	2	
	08	1	
90	09	1	
	11	3	
	14	1 1/2	
	18	4	
	21	3	
95	25	1 1/2	
	28	1	
	31	1	
	33	1 1/2	
	36	3	
	40	3 1/2	

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
43 1/2	40	3	
	47	4	
	50	1 1/2	
	54	1 1/2	
05	57	4	
	1:00	3	
	04	3	
	07	4	
	10	3	
10	12	3	
	20	3 1/2	
	24	3 1/2	
	27	3 1/2	
	31	3 1/2	
15	34	2 1/2	
	37	3	
	40	3	
	43	2 1/2	
	46	2 1/2	
	49	1	
	52 1/2	1 1/2	
20	56	3	
	59	3 1/2	
	01	3	
	04	3	
25	07	3	
	10	3 1/2	
	14	3	
	17	3	
	21	3 1/2	
	24	3 1/2	
30	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
35	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
40	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	
	03	3 1/2	
	06	3 1/2	
	09	3 1/2	
	12	3 1/2	
	15	3 1/2	
	18	3 1/2	
	21	3 1/2	
	24	3 1/2	
	27	3 1/2	
	30	3 1/2	
	33	3 1/2	
	36	3 1/2	
	39	3 1/2	
	42	3 1/2	
	45	3 1/2	
	48	3 1/2	
	51	3 1/2	
	54	3 1/2	
	57	3 1/2	
	00	3 1/2	

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. COUNTY STATE
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
11/20/01	15	13	3 1/2	
	16	14	3 1/2	
	19	15	3	
	21	16	2	
06	22	17	1	
	23	18	1	
	25	19	1	
	27 1/2	20	2 1/2	
	31	21	3 1/2	
08	33	22	2 1/2	
	37	23	2	
	42	24	5	
	47	25	4 1/2	
	51	26	4	43 vs 9.2 wt.
15	55	27	4	
	59	28	4	Conn. 4716
	62	29	4	
	13	30	5	
	17	31	4	
20	20	32	2 1/2	
	22	33	2 1/2	
	26	34	3 1/2	
	29	35	3	
	33	36	4	
25	36	37	3	
	38	38	2 1/2	
	41	39	3	
	45	40	3 1/2	
	49	41	4	
30	52	42	3	
	55	43	3 1/2	
	58	44	3	
	40 1/2	45	3 1/2	
	04	46	2	
35	05	47	1	
	06	48	1	
	07	49	1	
	08	50	1	
	10	51	2 1/2	
40	14	52	3 1/2	
	17	53	3 1/2	
	21	54	3 1/2	
	24	55	3	
	27	56	3	
45	29	57	3 1/2	
	32	58	3	
	36	59	4	Conn. 4747
	40	00	4 1/2	
	47	01	3 1/2	
50	51	02	3 1/2	

REMARKS: _____
 SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
11/20/01	25	13	2 1/2	Conn. 4901
	30	14	3	
	31	15	4	
	42	16	5	
06	45	17	2 1/2	
	49	18	4	
	53	19	3 1/2	
	56	20	3 1/2	
	59	21	3	
10	50	22	2 1/2	
	05	23	3	
	07	24	2	
	10	25	3	
	13	26	3	
15	16	27	3 1/2	
	19	28	2 1/2	
	21	29	2 1/2	Work on pump
	26	30	2 1/2	
	30	31	4	
20	33	32	3 1/2	
	36	33	3	
	40	34	3 1/2	
	43	35	3	
	44	36	3	
25	48	37	2 1/2	
	51	38	3	
	53	39	2	
	56	40	3	
	59	41	2 1/2	
30	01	42	2 1/2	
	04	43	1 1/2	4931
	07	44	2 1/2	
	16	45	3	
	17	46	5	
35	32	47	4 1/2	
	36	48	4 1/2	
	31	49	4 1/2	
	34	50	3 1/2	
	38	51	4	31 vs 9.3 wt
40	43	52	4 1/2	
	47	53	4	
	52	54	5 1/2	
	57	55	5	
	70 1/2	56	5 1/2	
45	07	57	4	
	11	58	4	RTD 7:22 PM
	15	59	4	478/96
	17	00	2 1/2	
	20	01	2 1/2	
50	22	02	2	RTD 103 HR.

REMARKS: _____
 SIZE PUMP LINERS _____ LENGTH STROKE _____

COMPANY _____ FARM _____ WELL NO. _____
 SEC. TWP. RGE. LOC. COUNTY STATE
 CONTRACTOR _____ SIZE HOLE _____ DRILL PIPE _____
 REMARKS: _____ SIZE PUMP LINERS _____ LENGTH STROKE _____

DATE	DEPTH	TIME O'CLOCK	MIN.	REMARKS
11/20/01	26 1/2	13	3 1/2	
	27	14	3	
	30 1/2	15	4	
	34	16	3	
	38	17	4	
	42	18	3 1/2	
	46	19	4	
	50	20	3 1/2	
	54	21	3 1/2	
	58	22	3 1/2	
05	62	23	3 1/2	
	66	24	3 1/2	
	70	25	3 1/2	
	74	26	3 1/2	
	78	27	3 1/2	
	82	28	3 1/2	
	86	29	3 1/2	
	90	30	3 1/2	
	94	31	3 1/2	
	98	32	3 1/2	
	102	33	3 1/2	
	106	34	3 1/2	
	110	35	3 1/2	
	114	36	3 1/2	
	118	37	3 1/2	
	122	38	3 1/2	
	126	39	3 1/2	
	130	40	3 1/2	
	134	41	3 1/2	
	138	42	3 1/2	
	142	43	3 1/2	
	146	44	3 1/2	
	150	45	3 1/2	
	154	46	3 1/2	
	158	47	3 1/2	
	162	48	3 1/2	
	166	49	3 1/2	
	170	50	3 1/2	
	174	51	3 1/2	
	178	52	3 1/2	
	182	53	3 1/2	
	186	54	3 1/2	
	190	55	3 1/2	
	194	56	3 1/2	
	198	57	3 1/2	
	202	58	3 1/2	
	206	59	3 1/2	
	210	00	3 1/2	
	214	01	3 1/2	
	218	02	3 1/2	
	222	03	3 1/2	
	226	04	3 1/2	
	230	05	3 1/2	
	234	06	3 1/2	
	238	07	3 1/2	
	242	08	3 1/2	
	246	09	3 1/2	
	250	10	3 1/2	
	254	11	3 1/2	
	258	12	3 1/2	
	262	13	3 1/2	
	266	14	3 1/2	
	270	15	3 1/2	
	274	16	3 1/2	
	278	17	3 1/2	
	282	18	3 1/2	
	286	19	3 1/2	
	290	20	3 1/2	
	294	21	3 1/2	
	298	22	3 1/2	
	302	23	3 1/2	
	306	24	3 1/2	
	310	25	3 1/2	
	314	26	3 1/2	
	318	27	3 1/2	
	322	28	3 1/2	
	326	29	3 1/2	
	330	30	3 1/2	
	334	31	3 1/2	
	338	32	3 1/2	
	342	33	3 1/2	
	346	34	3 1/2	
	350	35	3 1/2	
	354	36	3 1/2	
	358	37	3 1/2	
	362	38	3 1/2	
	366	39	3 1/2	
	370	40	3 1/2	
	374	41	3 1/2	
	378	42	3 1/2	
	382	43	3 1/2	
	386	44	3 1/2	
	390	45	3 1/2	
	394	46	3 1/2	
	398	47	3 1/2	
	402	48	3 1/2	
	406	49	3 1/2	
	410	50	3 1/2	
	414	51	3 1/2	
	418	52	3 1/2	
	422	53	3 1/2	
	426	54	3 1/2	
	430	55	3 1/2	
	434	56	3 1/2	
	438	57	3 1/2	
	442	58	3 1/2	
	446	59	3 1/2	
	450	00	3 1/2	
	454	01	3 1/2	
	458	02	3 1/2	
	462	03	3 1/2	
	466	04	3 1/2	
	470	05	3 1/2	
	474	06	3 1/2	
	478	07	3 1/2	
	482	08	3 1/2	
	486	09	3 1/2	
	490	10	3 1/2	
	494	11	3 1/2	
	498	12	3 1/2	
	502	13	3 1/2	
	506	14	3 1/2	
	510	15	3 1/2	
	514	16	3 1/2	
	518	17	3 1/2	
	522	18	3 1/2	
	526	19	3 1/2	
	530	20	3 1/2	
	534	21	3 1/2	
	538	22	3 1/2	
	542	23	3 1/2	
	546	24	3 1/2	
	550	25	3 1/2	
	554	26	3 1/2	
	558	27	3 1/2	
	562	28	3 1/2	
	566	29	3 1/2	
	570	30	3 1/2	
	574	31	3 1/2	
	578	32	3 1/2	
	582	33	3 1/2	
	586	34	3 1/2	
	590	35	3 1/2	
	594	36	3 1/2	
	598	37	3 1/2	
	602	38	3 1/2	
	606	39	3 1/2	
	610	40	3 1/2	
	614	41	3 1/2	
	618	42	3 1/2	
	622	43	3 1/2	
	626	44	3 1/2	
	630	45	3 1/2	
	634	46	3 1/2	
	638	47	3 1/2	
	642	48	3 1/2	
	646	49	3 1/2	
	650	50	3 1/2	
	654	51	3 1/2	
	658	52	3 1/2	
	662	53	3 1/2	
	666	54	3 1/2	
	670	55	3 1/2	
	674	56	3 1/2	
	678	57	3 1/2	
	682	58	3 1/2	
	686	59	3 1/2	
	690	00	3 1/2	
	694	01	3 1/2	
	698	02	3 1/2	
	702	03	3 1/2	
	706	04	3 1/2	
	710	05	3 1/2	
	714	06	3 1/2	
	718	07	3 1/2	
	722	08	3 1/2	
	726	09	3 1/2	
	730	10	3 1/2	
	734	11	3 1/2	
	738	12	3 1/2	
	742	13	3 1/2	
	746	14	3 1/2	
	750	15	3 1/2	
	754	16	3 1/2	
	758	17	3 1/2	
	762	18	3 1/2	
	766	19	3 1/2	
	770	20	3 1/2	
	774	21	3 1/2	
	778	22	3 1/2	
	782	23	3 1/2	
	786	24	3 1/2	
	790	25	3 1/2	
	794	26	3 1/2	
	798	27	3 1/2	
	802	28	3 1/2	
	806	29	3 1/2	
	810	30	3 1/2	
	814	31	3 1/2	
	818	32	3 1/2	
	822	33	3 1/2	
	826	34	3 1/2	
	830	35	3 1/2	
	834	36	3 1/2	
	838	37	3 1/2	
	842	38	3 1/2	
	846	39	3 1/2	
	850	40	3 1/2	
	854	41	3 1/2	
	858	42	3 1/2	
	862	43	3 1/2	
	866	44	3 1/2	
	870	45	3 1/2	
	874	46	3 1/2	
	878	47	3	

DOMBAR MUD INC.

24 HOUR PHONE NO. (316) 792-4337
8101 W. 10th + P.O. BOX 1708 + GREAT BEND, KS 67530

A DISTRIBUTOR
BAROID MUD
PRODUCTS

ENGINEERS TEST REPORT

DATE 04-15-96 DEPTH 3480
SPUD DATE _____ PRESENT ACTIVITY DW

OPERATOR Advantage Resources CONTRACTOR Dave Dely NO. 7
REPORT FOR J. J. Johnson REPORT FOR H. Moore SECTION NUMBER 20-285-17W
WELL NAME AND NO. #1 Hal Ross COUNTY Kiowa STATE KS

DRILLING ASSEMBLY				CASING		MUD VOLUME (GAL)		CIRCULATION DATA				
BIT SIZE	TYPE	JET SIZE	NO. OF SETS	LENGTH	INTERMEDIATE	IN STORAGE	WEIGHT	PUMP SIZE #	ASSIGNED	OPERATION	ASSIGNED	OPERATION
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270

*W/O @ 40-42 Seal to Drill
45 46 47 DST
w/ 1000 gal 1500 gal 1500 gal 1500 gal
20 gal / Carbonox
③ NT @ 9200 - w/ water @ 40 min
③ 30 min As Needed only*

Keep Hole Full on Trips

PRODUCT	STARTING	RECEIVED	USED LAST	RECEIVED	USED LAST	DAILY COST	CUMULATIVE COST
Gal Col SA Cap and Seal	377	20	20	50	6	189	267
Gal Col SA Cap and Seal	214	6	9	6	2		
Gal Col SA Cap and Seal	183	11	11	44	6		
Gal Col SA Cap and Seal	1320	25	120	109	54		

RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSIDERED AS AUTHORIZING THE IMPROVEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY DOMBAR MUD INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.
REPRESENTATIVE: Kenneth Dohm HOME ADDRESS: _____ TELEPHONE: 725536
316-793-2595 WAREHOUSE LOCATION: Gr Bond TELEPHONE: 725397

DOMBAR MUD INC.

24 HOUR PHONE NO. (316) 792-4337
8101 W. 10th + P.O. BOX 1708 + GREAT BEND, KS 67530

A DISTRIBUTOR
BAROID MUD
PRODUCTS

ENGINEERS TEST REPORT

DATE 04-16-96 DEPTH 4060
SPUD DATE _____ PRESENT ACTIVITY DW

OPERATOR Advantage Resources CONTRACTOR Dave Dely NO. 7
REPORT FOR J. J. Johnson REPORT FOR H. Moore SECTION NUMBER 20-285-17W
WELL NAME AND NO. #1 Hal Ross COUNTY Kiowa STATE KS

DRILLING ASSEMBLY				CASING		MUD VOLUME (GAL)		CIRCULATION DATA				
BIT SIZE	TYPE	JET SIZE	NO. OF SETS	LENGTH	INTERMEDIATE	IN STORAGE	WEIGHT	PUMP SIZE #	ASSIGNED	OPERATION	ASSIGNED	OPERATION
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270

*MR. E.L. Woody, Add 30K Gal
to a Tank NOT 47 SKS*

*① W/O @ 40-42 Seal to Drill
45 46 47 DST
w/ 1000 gal 1500 gal 1500 gal 1500 gal
20 gal / Carbonox*

*③ Cleared wt @ 9.2 on loss
w/ water @ 40 min*

③ Keep Hole Full on Trips

PRODUCT	STARTING	RECEIVED	USED LAST	RECEIVED	USED LAST	DAILY COST	CUMULATIVE COST
Gal Col SA Cap and Seal	183	14	11	44	6	840	2510
Gal Col SA Cap and Seal	101	3	2	2	2		
Gal Col SA Cap and Seal	82	11	9	11	44		
Gal Col SA Cap and Seal	1113	26	55				

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REPRESENTATIVE: Kenneth Dohm HOME ADDRESS: _____ TELEPHONE: 725536
316-793-2595 WAREHOUSE LOCATION: Gr Bond TELEPHONE: 725397

DOMBAR MUD INC.

24 HOUR PHONE NO. (316) 792-4337
8101 W. 10th + P.O. BOX 1708 + GREAT BEND, KS 67530

A DISTRIBUTOR
BAROID MUD
PRODUCTS

ENGINEERS TEST REPORT

DATE 04-17-96 DEPTH 4588
SPUD DATE _____ PRESENT ACTIVITY DW

OPERATOR Advantage Resources CONTRACTOR Dave Dely NO. 7
REPORT FOR J. J. Johnson REPORT FOR H. Moore SECTION NUMBER 20-285-17W
WELL NAME AND NO. #1 Hal Ross COUNTY Kiowa STATE KS

DRILLING ASSEMBLY				CASING		MUD VOLUME (GAL)		CIRCULATION DATA				
BIT SIZE	TYPE	JET SIZE	NO. OF SETS	LENGTH	INTERMEDIATE	IN STORAGE	WEIGHT	PUMP SIZE #	ASSIGNED	OPERATION	ASSIGNED	OPERATION
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270

*W/O @ 45 Seal w/ 1000 gal
1000 gal 1500 gal 1500 gal
1 Carbon 1500 gal
Add to System over 1 Hr.*

*③ Control wt @ 9.2-9.5 w/ water
@ 40 min*

Keep Hole Full on Trips

PRODUCT	STARTING	RECEIVED	USED LAST	RECEIVED	USED LAST	DAILY COST	CUMULATIVE COST
Gal Col SA Cap and Seal	82	11	9	11	44	567	4077
Gal Col SA Cap and Seal	72	3	1	1			
Gal Col SA Cap and Seal	10	9	8	10	44		
Gal Col SA Cap and Seal	161	75					

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REPRESENTATIVE: Kenneth Dohm HOME ADDRESS: _____ TELEPHONE: 725536
316-793-2595 WAREHOUSE LOCATION: Gr Bond TELEPHONE: 725397

DOMBAR MUD INC.

24 HOUR PHONE NO. (316) 792-4337
8101 W. 10th + P.O. BOX 1708 + GREAT BEND, KS 67530

A DISTRIBUTOR
BAROID MUD
PRODUCTS

ENGINEERS TEST REPORT

DATE 04-18-96 DEPTH 4855
SPUD DATE _____ PRESENT ACTIVITY DW

OPERATOR Advantage Resources CONTRACTOR Dave Dely NO. 7
REPORT FOR J. J. Johnson REPORT FOR H. Moore SECTION NUMBER 20-285-17W
WELL NAME AND NO. #1 Hal Ross COUNTY Kiowa STATE KS

DRILLING ASSEMBLY				CASING		MUD VOLUME (GAL)		CIRCULATION DATA				
BIT SIZE	TYPE	JET SIZE	NO. OF SETS	LENGTH	INTERMEDIATE	IN STORAGE	WEIGHT	PUMP SIZE #	ASSIGNED	OPERATION	ASSIGNED	OPERATION
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270
8 1/2	1 1/2	1 1/2	2	276	276	300	6X15	270	270	270	270	270

*① List wt build to 9.5 to loss
② W/O to loss @ 45 Seal w/
w/ 1000 gal 1500 gal 1500 gal 1500 gal
Shovel - Roll 4 Hr. 1500 gal
Dredge 1000 gal.*

Remix 1 Volume (1000 gal 1500 gal 1500 gal 1500 gal)

Wm only as needed.

Keep Hole Full on Trips

PRODUCT	STARTING	RECEIVED	USED LAST	RECEIVED	USED LAST	DAILY COST	CUMULATIVE COST
Gal Col SA Cap and Seal	10	9	8	10	44	789	4866
Gal Col SA Cap and Seal	160						
Gal Col SA Cap and Seal	20	5	4	2	2		
Gal Col SA Cap and Seal	20	4	4	8	44		
Gal Col SA Cap and Seal	102	23	36				

RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSIDERED AS AUTHORIZING THE IMPROVEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY DOMBAR MUD INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.
REPRESENTATIVE: Kenneth Dohm HOME ADDRESS: _____ TELEPHONE: 725536
316-793-2595 WAREHOUSE LOCATION: Gr Bond TELEPHONE: 725397

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

Operator: License # 6926

Name: Advantage Resources, Inc.

Address 1775 Sherman Street - Suite 1375

City/State/Zip Denver, Colorado 80203-4316

Purchaser: _____

Operator Contact Person: Lou Bortz

Phone (303) 831-1912

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Jerry Jesperson

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. Conversion [In] / SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj) Docket No. _____

04-12-96 04-19-96 04-19-96

Spud Date Date Reached TD Completion Date

API NO. 15- 097-21405 0000

County Kiowa County, Kansas

NW - NE - SE - Sec. 20 Twp. 28S Rge. 17 XX^E_V

2000 Feet from SW (circle one) Line of Section

800 Feet from EW (circle one) Line of Section

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

Lease Name Hal Ross Well # 1

Field Name Hardy

Producing Formation Miss. Chat (Osage)

Elevation: Ground 2200 KS 2213

Total Depth 4952 PBTB 4917

Amount of Surface Pipe Set and Cemented at. 438' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cnt.

Drilling Fluid Management Plan ALT 1 JK 12-13-96
(Data must be collected from the Reserve Pit)

Chloride content 9800 ppm Fluid volume 1400 bbls

De-watering method used Evaporation

Location of fluid disposal if hauled offsite: none

Operator Name _____

Lease Name _____

Quarter Sec. Twp. S Rng. 5 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 Lou C. Bortz

Title Vice President Date 7-2-96

Subscribed and sworn to before me this 2nd day of July 19-96

Notary Public Christine K. Pittenger

Date Commission Expires 9-9-98

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input type="checkbox"/> KCC	<input type="checkbox"/> SWD/Rep	<input type="checkbox"/> NGPA
<input type="checkbox"/> KCS	<input type="checkbox"/> Plug	<input type="checkbox"/> Other (Specify)