

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

Operator: License # 06926
Name: Advantage Resources, Inc.
Address 1775 Sherman St., Ste. 1375
Denver, CO 80203
City/State/Zip _____
Purchaser: N.C.R.A.
Operator Contact Person: Edward Ackman
Phone (303) 831-1912
Contractor: Name: Nebraska Drilling
License: 31730
Wellsite Geologist: Jerry Jespersen
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: RELEASED
Well Name: _____
Comp. Date _____ Old Total Depth JAN 29 1999
 Deepening Re-perf SWD SIOW
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
7-30-96 8-6-96 9-23-96
Spud Date Date Reached TD Completion Date

API NO. 15- 153-20811-00-00 ORIGINAL
County Rawlins
SE NE Sec. 5 Twp. 1 Rge. 36 E W
1980 Feet from SW (circle one) Line of Section
660 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Spears Well # 8-5
Field Name WC
Producing Formation Oread/Lansing
Elevation: Ground 3166 KB 3173
Total Depth 4467 PBTB 4210
Amount of Surface Pipe Set and Cemented at 224 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 cat.
Drilling Fluid Management Plan ALT 1 OK 10-20-97
(Data must be collected from the Reserve Pit)
Chloride content 600 ppm Fluid volume 300 bbls
Dewatering method used evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name _____
Lease Name _____ License No. _____
Quarter _____ Twp. _____ 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 [Signature]
Title President Date 10-2-96
Subscribed and sworn to before me this 2nd day of October
19 96
Notary Public [Signature]
Date Commission Expires 9-9-98

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Operator Name Advantage Resources, Inc.

Lease Name Spears

Well # 8-5

Sec. 5 Twp. 1 Rge. 36
 East
 West

County Rawlins

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.) See Attached

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Stone Corral	3103	70
Oread	4019	-846
Lansing	4116	-943

List All E.Logs Run:
 Dual Induction
 GR Neutron Density

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	224	Neat	165	CAC1 2%
Production	7-7/8	5-1/2	14	4431		400	--

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	None			
<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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4224-26		
2	4118-24	1900 gal 15% acid	
4	4020-26	3000 gal acid	

TUBING RECORD Size 2-3/8 Set At 3982 Packer At None Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. _____ Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 15 Bbls. Gas 45 Mcf Water 45 Bbls. Gas-Oil Ratio -- Gravity 24.0

Disposition of Gas: *

Vented Sold Used on Lease
 (If vented, submit ACO-18.)

*Gas-is too small to measure

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Production Interval

4118-24
4020-26

ORIGINAL

Drillstem tests run on
Advantage Resources, Inc.
Spears 8-5 Sec. 5-1-36W
Rawlins County, Kansas

RELEASED

JAN 29 1999

15-153-20811-00-00

FROM CONFIDENTIAL

DST #1 4010-4040. Times 15-60-30-60. Rec. 15' free oil + 60' GMCO. HH 1940-1990,
IFP 95-74, 2 FP 106-106, SIP 1198-1189.

DST #2 4089-4195. Times 15-60-15-60. Rec. 1' free oil + 14' OCM. HH 2035-2004, IFP 85-
95, 2 FP 117-106, SIP 1145-966.

DST #3 4192-4290. Times 15-60-30-60. Rec. 2' free oil + 30' OCM + 460' SOCMW. HH
2113-2099, IFP 104-121, 2 FP 124-137, SIP 1200-1216.

KCC

OCT 2

CONFIDENTIAL

RECEIVED
RAWLINS COUNTY
OCT -11 P 2:04

SEP 27 '96 05:47 GRE

P. 1

ALLIED CEMENTING CO., INC. 7355

ORIGINAL

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT
RAKLEY, KS

15-53-20&11-00-00

DATE <u>8-7-96</u>	SEC <u>5</u>	TWP <u>15</u>	RANGE <u>36W</u>	CALLED OUT	ON LOCATION <u>11:10 PM</u>	JOB START <u>5:15 AM</u>	JOB FINISH <u>6:05 AM</u>
LEASE <u>SPARS</u>	WELL # <u>8-5</u>		LOCATION <u>BENKLEMAN 35-9F</u>		COUNTY <u>RAWLINS</u>	STATE <u>KS</u>	

OLD OR (NEW) Circle one

CONTRACTOR <u>WISNASKA DMLG</u>	OWNER <u>JAME</u>
TYPE OF JOB <u>PRODUCTION STAKE</u>	CEMENT
HOLE SIZE <u>7 1/2</u>	T.D. <u>4470</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>4431</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX.	MINIMUM
MEAS. LINE	SHOE JOINT <u>29.16</u>
CEMENT LEFT IN CSG	
PERFS.	<u>RELEASED</u>

EQUIPMENT JAN 29 1999

PUMP TRUCK # <u>300</u>	CEMENTER <u>PERRY</u>	CONFIDENTIAL
BULK TRUCK # <u>218</u>	DRIVER <u>DEAN</u>	
BULK TRUCK # <u>212</u>	DRIVER <u>JEFF</u>	

AMOUNT ORDERED <u>275 lbs 1/2" 1/2" Fl. Seal</u>
<u>125 lbs ASC 10% SALT</u>
COMMON <u>275 SKS</u> @ <u>5.20</u> = <u>1,430.00</u>
POZMIX <u>125 SKS</u> @ <u>8.20</u> = <u>1,027.00</u>
GEL <u>9 SKS</u> @ <u>7.00</u> = <u>63.00</u>
CHLORIDE <u>Fl. Seal 67#</u> @ <u>1.15</u> = <u>77.00</u>
HANDLING <u>400 SKS</u> @ <u>1.25</u> = <u>470.00</u>
MILEAGE <u>44 per 50 mile</u> = <u>1,392.00</u>

TOTAL 4,471.00

REMARKS: 8% Gel

MEY 275 SKS 1/2" 1/2" Followed by
125 SKS ASC 10% SALT. Displaced
with 104.34 BBL. Landed Plug
at 1100 ft. Insert held.

THANK YOU

OCT 2
CONFIDENTIAL SERVICE

DEPTH OF JOB <u>4431</u>	
PUMP TRUCK CHARGE	<u>1,030.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>97 miles</u>	@ <u>2.50</u> = <u>247.50</u>
PLUG <u>5 1/2 Rubber</u>	@ <u>50.00</u>

TOTAL 1,327.50

CHARGE TO: ADVANTAGE RESOURCES
STREET 1775 Sheeman, St. #1375
CITY Denver STATE CO ZIP 80203

FLOAT EQUIPMENT

<u>5/2</u>	
1- <u>6x20C Shoe</u>	@ <u>125.00</u>
1- <u>INSERT</u>	@ <u>189.00</u>
1- <u>BASKET</u>	@ <u>127.00</u>
8- <u>CENTRALIZERS</u>	@ <u>448.00</u>

TOTAL 889.00

1997 OCT -4 P. 12. 03

KANSAS CORP. DIVISION RECEIVED

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 _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

ORIGINAL

SIGNATURE TE D. McGill

15-153-20811-00-00

RELEASED

JAN 29 1999

FROM CONFIDENTIAL

RUC

OCT 2

CONFIDENTIAL

RECEIVED
KANSAS GROUP
OCT 21 1993

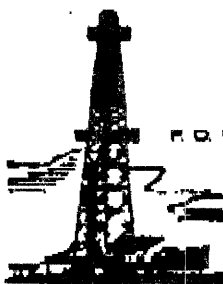
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CEMENTER'S

PAGE 01

ORIGINAL

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KANSAS CORP COMM
1997 OCT -4 P 12:03



CEMENTER'S ENERGY INC.

P. O. BOX 1987 • SCOTTSDALE, NE 68963-1987 • (308) 682-0055
FAX 308-682-3981

NO 15750

15-153-20811-00-00

Date 7.30.96 Well Owner Advantage Resources Well No. 85 Lease SEARS
 County Dundy RAWLINS State KANSAS
 Charge To Advantage Resources, Inc Charge Code
 Address 1775 Sherman Street Suite 1375 For Office Use Only
 City, State Denver, Colo 80203
 Pump Truck No. 1204 Code Bulk Truck No. 1216 Code
 Type of Job Surface 5 5/8 Depth Ft. Bottom of Surface Ft. 2011.06 to in
 Plug Landed @ 2:09 PM Ft. Time On 12:05 Hrs.
 Production Pipe Landed @ 2:44 PM Ft. Time On Plug down @ 2:30 PM

Reference No.	Description	Qty.	Meas.	Unit Price	Amount
	Pump Truck Charge				
	Cement Neal	165	SUS		1750.00
	Poz. Mix				
	Calcium Chloride	2%			
	Oil				
	Handling Charge				
	Hauling Charge				0.00
	Additional Pump Charge				
	Mileage P.T.				
	B.T.				
	Plug				

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JAN 29 1999

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OCT 2
CONFIDENTIAL

Remarks: Proklesh w/ 2 BATS Tax Reference Code Sub Total 1750.00
Displayed w/ 12 BATS State NE. 5 % Tax 87.50
Complete w/ 6 BATS Disc Total 1837.50

Trunk No.	Code	State Mileage	Nebraska	CO/DK/SD	Wyoming	Other	Total Mileage
<u>1204</u>		Pump Truck	<u>17</u>	<u>42</u>			
<u>1216</u>		Bulk Truck	<u>17</u>	<u>42</u>			

We do not assume any responsibility for any damage or conditions resulting from our services. All pricing is subject to review and revision.

Delivered By DEANIS - JOHN Received by _____ Customer or His Agent

15-153-20811-00-00

AUG 22 1996

BJC

ORIGINAL

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

CONFIDENTIAL

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JAN 29 1999

FROM CONFIDENTIAL

Geological Report

15-153-20811

15/2
OCT 2
CONFIDENTIAL

Advantage Resources, Inc.
#8-5 SPEARS
SE/4 NE/4 (2205' FNL, 660' FEL)
Section 5-T-1S-36W
Rawlins County, KANSAS

15-153-20811-00-00
BIG J CONSULTANTS
WICHITA, KANSAS

CONFIDENTIAL

August 13, 1996

ORIGINAL

15-153-20811-00-00

#8-5 SPEARS
SE/4 NE/4 (2205' FNL 660' FEL)
Section 5-T1S-R36W
Rawlins County, KANSAS

Field:	Wildcat
Elevations:	3173 Kelly Bushing 3170 Derrick Floor 3166 Ground Level
Wellsite Geologist:	J.E. Jespersen
Contractor:	Nebraska Drilling Company
Commenced:	July 30, 1996
Completed:	August 6, 1996
Rotary Total Depth:	4470 feet
Log Total Depth:	4468 feet
Surface Casing:	8 5/8" @ 224 feet with 165 sacks
Production Casing:	4 1/2" @ 4431 feet with 400 sacks
Electrical Surveys:	ELI Wireline: Dual Induction-Compensated Neutron-Guard Log
Hole Size:	12 1/4" from surface to 224 feet 7 7/8" from 224 feet to 4470 feet (RTD)
General Information:	Samples saved from 3500 to 4470 feet (RTD). Drilling time kept from 3100 to 3150 feet and 3400 to 4470 feet (RTD). Samples examined from 3600 to 4470 feet (RTD). Drilling supervised from 3500 to RTD. Mud up at 3670 feet. Mud type, chemical.

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KANSAS OIL & GAS COM.
1997 OCT -11 P. 12-03

15-153-20811-00-00

FORMATION	*Using E-Log Depths*					
	TOP	LOG	DATUM	TOP	SAMPLE DATUM	STRUCT COMP.
Anhydrite	3102		+ 71	3112	+ 61	4' Low
Red Eagle	3436		- 463	3644	- 471	3' Low
Foraker	3684		- 511	3690	- 517	7' Low
Topeka	3912		- 739	3919	- 746	13' Low
Oread	4019		- 846	4026	- 853	16' Low
Lansing	4116		- 943	4124	- 951	12' Low
Lansing 'B' Zn	4172		- 999	4186	- 1013	12' Low
Lansing 'C' Zn	4224		- 1051	4234	- 1061	10' Low
Lansing 'E' Zn	4312		- 1139	4324	- 1151	8' Low
3/Kansas City	4390		- 1217	4403	- 1230	12' Low

Reference/Structural Comparison: Larrette Res. #1 4-8 DEYLE, SE SE NE, Section 8-T1S-R36W, Raw County, Kansas

Note: Pipe strap at 4040 feet was 2.94' short to the board.

DAILY PENETRATION

Date	Depth	Remarks
7/30/96	- 0 -	MIRT SPUD - Set 8 5/8" @ 224' w/125 sx Plug down 2:30 PM
7/31	1398	Drilling
8/01/96	2850	Anhydrite 3112 to 3146'
8/02	3587	Drilling
8/03	4022	DST #1 4010-4040
8/04	4150	DST #2 4089-4195
8/05	4290	DST #3 4192-4290
8/06	4435	RTD 4470' @ 10:15 AM Ran ELI CD-CN-G Log Set 4 1/2" L@ 4431' w/400 sx
8/07	4470	Rotary Total Depth

RECEIVED
KANSAS CITY
1977 OCT 14 10 12 AM

15-153-20811-00-00

BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH		HOURS
				OUT	FEET	
S	12 1/4	HTC	RT-RR	224	224	3 1/4
1	7 7/8	HTC	RT	2506	2282	16 1/4
2	7 7/8	SEC	ERA 22C	4150	1534	43 1/2
3	7 7/8	SEC	S83F	4290	140	17 1/2
4	7 7/8	SEC	ERA C22 RR	4470	180	12 1/2

MUD RECORD (Morgan Mud)

CHK	DEPTH	WT	VIS	FIL	PH	PV	YP	GELS	CHLORIDES	SOL
1	224	-	-	-	-	-	-	- / -	-	-
2	2180	-	-	-	-	-	-	- / -	-	-
3	3000	-	-	-	-	-	-	- / -	-	-
4	3784	9.0	46	9.2	11.0	13	14	40/27	600	5.0%
5	4022	9.0	48	8.4	10.5	15	16	46/31	600	5.0%
6	4056	9.1	45	8.4	10.5	14	14	42/28	800	5.7%
7	4156	9.2	54	8.0	10.5	17	18	52/35	700	6.4%
8	4290	9.1	44	8.0	10.5	13	14	40/27	700	5.7%
9	4300	9.1	47	8.4	10.0	15	15	45/30	1,400	5.7%
10	4446	9.2	48	8.4	10.5	15	16	46/31	1,200	6.4%

Reserve pit chl 600 ppm

DRILL STEM TESTS {TRILOBITE TESTING}

INTERVAL	IFP	ISIP	FFP	FSIP	IHHPEHH
1 4010-4040 Recovery:	95/74/15 15' Free Oil 60' Gassy muddy oil 60' Gassy oily mud	1198/60	106-106/30	1187/60	1940-1919
2 4089-4195 Recovery:	85-95/15 1' Free Oil 14' Oil cut mud (6% oil)	1145/60	117-106/15	966/60	2035-20004
3 4192-4290 Recovery:	104-124/15 2' Free Oil 63' Oil and water cut mud 427' Muddy water	1321/60	176-280/60	1200/60	2113-2103

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KANSAS GEOLOGICAL SURVEY
OCT - 11 - 1977

15-153-20811-00-00

Geological Formations and Porosity Zones

A detailed lithological log was maintained from 3580 feet to 4470 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	3112 + 61
	E-Log	3102 + 71
B/Anhydrite	Sample	3146 + 27
	E-log	3135 + 38
Red Eagle	Sample	3644 - 471
	E-Log	3636 - 463
Foraker	Sample	3690 - 517
	E-Log	3684 - 511
Topeka	Sample	3919 - 746
	E-Log	3129 - 739

SL 3690-3696 Limestone, light buff, fine crystalline, fossiliferous. Fair to good
EL 3692-3696 interfossiliferous and intercrystalline porosity. No shows; no
fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 3730-3746 Sandstone, light grey, fine grained, friable, calcareous. Good
EL 3724-3736 intergranular porosity. No shows; no fluorescence; no odor.
Judged this zone to be of no commercial value.

SL 3835-3839 Limestone, light grey, fine crystalline, fossiliferous. Fair
EL 3828-3832 interfossiliferous porosity. **No free oil.** Spotted dark brown oil
stain; no odor. No fluorescence. Good cut in carbon tetrachloride
Judged this zone to be of no commercial value.

Topeka	Sample	3919 - 746
	E-Log	3912 - 739

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KANSAS GEOLOGICAL SURVEY
1987 OCT 17 10 10 AM

Geological Formations and Porosity Zones

SL 3949-3970 Limestone, white, fine crystalline, finely sucrosic. Fair to good
EL 3942-3962 intercrystalline and interfossiliferous porosity. No shows; no
fluorescence; no odor.
Judged this zone to be of no commercial value.

Deer Creek Sample 3976 - 803
E-Log 3974 - 801

Oread Sample 4026 - 853
E-Log 4019 - 846

SL 4026-4032 Limestone, light grey to grey, fine crystalline, fossiliferous. Good
EL 4019-4025 interfossiliferous and vugular porosity. **Poor show brown free oil.**
Spotted to saturated brown oil stain. Dull fluorescence; good cut;
slight odor. Tested this zone. (See DST #1) Due to the test
results (fluid recovery and bottomhole pressure) recommend this
zone be further tested.

Drillstem Test #1

Weak blow throughout both flow periods
Recovered:

4010-4010

15' Free oil
60' Gassy muddy oil
(10%G,60%O,30%M)
60' Gassy oily mud
(10%G,30%O,60%M)
95# to 74# / 15 min.
1198# / 60 min.
106# to 106# / 30 min.
1187# / 60 min.
1940#
1919#
114 degrees

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

1977 OCT -11 PM 12:03
LAWRENCE & BERKELEY
LABORATORY

15-153-20811-00-00

Advantage Resources, Inc.
#8-5 SPEARS

J.E. Jespersen
Page 7

Geological Formations and Porosity Zones

SL 4095-4097 Sandstone, grey, very fine to fine grained. Very friable; good
EL 4088-4090 intergranular porosity. **Good show dark brown free oil.**
Saturated dark brown stain; no odor.
Judged this zone to be of no commercial value.

Lansing Sample 4124 - 951
E-Log 4116 - 943

(A-Zone)

SL 4124-4129 Limestone, light grey, very fine to fine crystalline, fossiliferous.
EL 4114-4120 Fair to good interfossiliferous and vugular porosity. **Poor show light brown free oil.** Spotted brown oil stain; dull fluorescence; good cut; very slight odor. Tested this zone. (See DST #2) Due to the test results, recommend this zone be perforated and further tested.

(B-Zone)

SL 4186-4189 Limestone, light buff, very fine crystalline, fossiliferous. Poor to
EL 4182-4186 fair interfossiliferous and vugular porosity. **No free oil.** Spotted light brown oil stain; no fluorescence; no odor. Tested this zone. (See DST #2) Due to the quality of the sample, this zone is not recommended for any further testing.

Drillstem Test #2

4089-4195

Very weak blow; died in 1/2 min. IFP
No blow FFP
Recovered:

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

1' Free oil
14' Oil cut mud (6%O,94%M)
85# to 95# / 15 min.
1145# / 60 min.
117# to 106# / 60 min.
966# / 60 min.
2035#
2004#
117 degrees

15-153-20811-00-00
11/03/2003
C. J. JENSEN

Geological Formations and Porosity Zones

(B-Zone)

SL 4196-4207 Limestone, white to light grey, very fine crystalline, slightly chalky,
No Zone fossiliferous. Poor interfossiliferous and intergranular porosity.
No free oil. Spotted brown oil stain; no fluorescence; fair cut; no odor. Tested this zone. (See DST #3) Due to the fluid recovery in this test, judged this zone to be of no commercial value.

(C-Zone)

SL 4234-4238 Limestone, light grey, fine crystalline, fossiliferous. Poor to fair
EL 4224-4229 pinpoint and vugular porosity. **Poor show brown live free oil.** Spotted brown oil stain; no fluorescence; slight cut. No odor. Tested this zone. (See DST #3) Due to the recovery, judged this zone to be of no commercial value.

(D-Zone)

SL 4281-4287 Limestone, cream to light buff, very fine to fine crystalline,
EL 4274-4280 fossiliferous. Poor intercrystalline porosity. No shows; no fluorescence; no odor. Tested this zone. (See DST #3) Due to the results of the test and quality of samples, judged this zone to be of no commercial value.

Drillstem Test #3

4192-4290

Weak bldg to fair blow 10" in bucket, IFP
Weak bldg to fair blow 11" in bucket, FFP
Recovered:

2' Free oil
63' Oil cut watery mud
(5%O, 15%W, 80%M)
427' Muddy water
104# to 124# / 15 min.
1321# / 60 min.
176# to 280# / 60 min.
1200# / 60 min.
2113#
2103#
126 degrees

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

ED 01 01 11-100 1111
1111 1111 1111 1111
1111 1111 1111 1111

15-153-20811-00-00

Advantage Resources, Inc.
#8-5 SPEARS

J.E. Jespersen
Page 9

Geological Formations and Porosity Zones

(E-Zone)

SL 4324-4332 Limestone, cream, fine crystalline, fossiliferous, slightly chalky.
EL 4314-4328 Poor to fair intergranular and interfossiliferous porosity. *Trace brown live free oil*. Rare spotted oil stain; 99% *barren* of any shows. Dull mineral fluorescence; no odor.
Judged this zone to be of no commercial value.

(F-Zone)

SL 4358-4372 Limestone, white to buff, fine crystalline, fossiliferous, chalky.
EL 4358-4362 Poor to fair interfossiliferous and intergranular porosity. No shows; no fluorescence; no odor.
Judged this zone to be of no commercial value.

Base Kansas City

Sample 4403 -1230
E-log 4390 -1217

Rotary Total Depth 4470 -1297

Electric Log Total Depth 4468 -1295

ELI Wireline: GR-SP-DIL-Comp Density-Neutron Log

4 1/2" casing set @ 4431' w/400 sacks

15-153-20811-00-00
ADVANTAGE RESOURCES, INC.
COLUMBIA, MISSOURI

15-153-20811-00-00

Advantage Resources, Inc.
#8-5 SPEARS

J.E. Jespersen
Page 10

REMARKS and RECOMMENDATIONS

Electric log correlates 6 to 7 feet shallower than drillers depths.
Recommend 4 1/2" casing be run and set @ 4431' with 400 sacks.

Due to the recovery and bottomhole pressures of Drillstem Test covering the **Oread Zone**, this zone merits further testing. **Recommend perforating with acid treatment** to make a commercial producing zone. The **Lansing 'A' Zone (4124-4128)** also merits further testing.

No other zones are recommended.

Respectfully submitted,

Jerold E. Jespersen

JEJ
08/13/96

15-153-20811-00-00
J.E. JESPERSEN
AUG 13 1996

15-153-20811-00-00

COMPANY Advantage Resources FARM Spears WELL NO. 8-5
SEC. TWP. RBE. LOC. COUNTY STATE KS
CONTRACTOR NDC SIZE HOLE 7-7/8" DRILL PIPE 4 1/2 X 1/4
REMARKS: 3100-3150 SIZE PUMP LINERS 6 LENGTH STROKE 14
Army 3107-3146 EL 303-831-1912

DATE 8/1/86 PM
Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data points include depths from 9 to 50 and times from 9:11 to 10:03. Remarks include 'f-3107' and 'Conn Jet #1 Riv'.

Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data points include depths from 55 to 80 and times from 9:51 to 10:00. Remarks include '600', '70', and '80'.

COMPANY Advantage Resources FARM Spears WELL NO. 8-5
SEC. TWP. RBE. LOC. COUNTY STATE KS
CONTRACTOR NDC SIZE HOLE 7-7/8" DRILL PIPE 4 1/2 X 1/4
REMARKS: 3400-3500' Drilling Time SIZE PUMP LINERS 6 LENGTH STROKE 14

DATE 8/1/86 PM
Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data points include depths from 3100 to 3500 and times from 9:55 to 10:30. Remarks include 'Conn', 'T Correction', and 'Wets Day Samples'.

Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data points include depths from 3500 to 4000 and times from 10:00 to 10:40. Remarks include 'Conn', 'Conn-Set', and 'Wets Day Samples'.

DATE 8/1/86
Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data points include depths from 3500 to 5000 and times from 10:07 to 10:50. Remarks include 'Wet & dry', '3600 to 3700', 'Conn', and 'Conn - Short Trip'.

Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data points include depths from 3500 to 5000 and times from 10:07 to 10:50. Remarks include 'Conn' and 'Conn - Short Trip'.

DATE 8/1/86
Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data points include depths from 3500 to 5000 and times from 10:07 to 10:50. Remarks include 'Conn - Jet #2' and 'Conn - Short Trip'.

Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data points include depths from 3500 to 5000 and times from 10:07 to 10:50. Remarks include 'Conn', 'Start mud up', and 'fill Probe'.

15-153-20811-00-00

COMPANY Advantage Res FARM Spears. WELL NO. P-5
SEC. TWP. RGE. LOC. COUNTY Rowles STATE KS
CONTRACTOR NDC SIZE HOLE DRILL PIPE
REMARKS: 4100-4200 SIZE PUMP LINERS LENGTH STROKE

COMPANY Advantage FARM Spears. WELL NO.
SEC. TWP. RGE. LOC. COUNTY Rowles STATE KS
CONTRACTOR NDC SIZE HOLE DRILL PIPE
REMARKS: 4200-4300 SIZE PUMP LINERS LENGTH STROKE

Table with columns: DATE, DEPTH, TIME O'CLOCK, MIN., REMARKS. Data rows from 10 to 43 minutes.

Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data rows from 45 to 42:00 minutes.

Table with columns: DATE, DEPTH, TIME O'CLOCK, MIN., REMARKS. Data rows from 45 to 42:50 minutes.

Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data rows from 45 to 43:00 minutes.

REMARKS: 4200

REMARKS: 4400

Table with columns: DATE, DEPTH, TIME O'CLOCK, MIN., REMARKS. Data rows from 43:30 to 45:30 minutes.

Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data rows from 45:30 to 44:00 minutes.

Table with columns: DATE, DEPTH, TIME O'CLOCK, MIN., REMARKS. Data rows from 45:00 to 42:00 minutes.

Table with columns: DEPTH, TIME O'CLOCK, MIN., REMARKS. Data rows from 45:00 to 42:00 minutes.

REMARKS: 4500

REMARKS: 4300

15-153-20811-00 00

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 9314

Well Name & No. Spears #8-5 Test No. #2 Date 8-4-96
 Company Advantage Resources Inc Zone Tested KC. "A+B"
 Address 1755 Sherman St #1375 Denver, Co. 80203 Elevation 3173 KB 3166 GL
 Co. Rep / Geo. Gary Jespersen Cont. Abbas Dg Rist Est. Ft. of Pay Por. %
 Location: Sec. 5 Twp. 1s Rge. 36w Co. Rawlins State Ks
 No. of Copies 1 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 4089 to 4195 Initial Str Wt Lbs. 6500 Unseated Str Wt Lbs. 6500
 Anchor Length 106 Wt. Set Lbs. 24000 Wt. Pulled Loose Lbs. 30000
 Top Packer Depth 4084 Hole Size - 7 7/8" Rubber Size - 6 3/4"
 Bottom Packer Depth 4089 Wt. Pipe I.D. - 2.7 Ft. Run 457
 Total Depth 4195 Drill Collar - 2.25 Ft. Run 457
 Mud Wt. 9.2 LCM TR Vt. 54 Wt. 8.9 Drill Pipe Size 4 1/2 x 13.5 I.D. Ft. Run 3710

Blow Description TF - Surface blow, died in 1/2 min
IS - No blow back
FE - No blow
F.S. - No blow back
 Recovery - Total Feet 15 Ft. in DC 15 Ft. in WP 11 Ft. in DP 0
 Rec. 14 Feet Of EO %gas 100 Oil %water 0 Turned
 Rec. 14 Feet Of OCM %gas 6 %oil 94 %water 0 Turned
 Rec. 14 Feet Of OCM %gas 6 %oil 94 %water 0 Turned
 Rec. 14 Feet Of OCM %gas 6 %oil 94 %water 0 Turned
 Rec. 14 Feet Of OCM %gas 6 %oil 94 %water 0 Turned
 Rec. 14 Feet Of OCM %gas 6 %oil 94 %water 0 Turned

BHT 117 °F Gravity 20.4 *API D^o 86 *F Corrected Gravity 17.8 *API
 RW 16 °F Chlorides 36.000 ppm Recovery Chlorides 700 ppm System
 (A) Initial Hydrostatic Mud 2035 PSI Recorder No. 11086 T-Started 1315
 (B) First Initial Flow Pressure 85 PSI @ (depth) 4160 T-Open 1510
 (C) First Final Flow Pressure 95 PSI Recorder No. 10994 T-Pulled 1740
 (D) Initial Shut-in Pressure 1145 PSI @ (depth) 4192 T-Out 1930
 (E) Second Initial Flow Pressure 117 PSI Recorder No. 11
 (F) Second Final Flow Pressure 106 PSI @ (depth) 11
 (G) Final Shut-in Pressure 966 PSI Initial Opening 15 Test
 (H) Final Hydrostatic Mud 2004 PSI Initial Shut-in 60 Jars

Final Flow 15 Safety Joint
 Final Shut-in 60 Straddle
 Circ. Sub N/C
 Sampler
 Extra Packer
 Elect. Rec.
 Other
 Approved By [Signature]
 Our Representative [Signature] TOTAL PRICE \$

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 9313

Well Name & No. Spears #8-5 Test No. #7 Date 8-3-96
 Company Advantage Resources Inc Zone Tested Oread
 Address 1755 Sherman St #1375 Denver, Co. 80203 Elevation 3173 KB 3166 GL
 Co. Rep / Geo. Gary Jespersen Cont. Abbas Dg Rist Est. Ft. of Pay Por. %
 Location: Sec. 5 Twp. 1s Rge. 36w Co. Rawlins State Ks
 No. of Copies 1 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 4010 to 4040 Initial Str Wt Lbs. 6200 Unseated Str Wt Lbs. 6200
 Anchor Length 30 Wt. Set Lbs. 24000 Wt. Pulled Loose Lbs. 30000
 Top Packer Depth 4005 Hole Size - 7 7/8" Rubber Size - 6 3/4"
 Bottom Packer Depth 4010 Wt. Pipe I.D. - 2.7 Ft. Run 457
 Total Depth 4040 Drill Collar - 2.25 Ft. Run 457
 Mud Wt. 9.0 LCM TR Vt. 48 Wt. 8.4 Drill Pipe Size 4 1/2 x 13.5 I.D. Ft. Run 3586

Blow Description TF - Weak surface blow - (5 to 6 of fill on bottom)
IS - No blow back
FE - Weak surface blow
F.S. - No blow back
 Recovery - Total Feet 135 Ft. in DC 135 Ft. in WP 11 Ft. in DP 0
 Rec. 15 Feet Of EO %gas 100 Oil %water 0 Turned
 Rec. 60 Feet Of G.M.O %gas 10 %oil 60 %water 30 Turned
 Rec. 60 Feet Of G.M.O %gas 10 %oil 60 %water 30 Turned
 Rec. 60 Feet Of G.M.O %gas 10 %oil 60 %water 30 Turned
 Rec. 60 Feet Of G.M.O %gas 10 %oil 60 %water 30 Turned
 Rec. 60 Feet Of G.M.O %gas 10 %oil 60 %water 30 Turned

BHT 114 °F Gravity 20.4 *API D^o 86 *F Corrected Gravity 17.8 *API
 RW 16 °F Chlorides 36.000 ppm Recovery Chlorides 700 ppm System
 (A) Initial Hydrostatic Mud 1940 PSI Recorder No. 11086 T-Started 1300
 (B) First Initial Flow Pressure 95 PSI @ (depth) 4011 T-Open 1351
 (C) First Final Flow Pressure 74 PSI Recorder No. 10994 T-Pulled 1636
 (D) Initial Shut-in Pressure 1198 PSI @ (depth) 4037 T-Out 1835
 (E) Second Initial Flow Pressure 106 PSI Recorder No. 11
 (F) Second Final Flow Pressure 106 PSI @ (depth) 11
 (G) Final Shut-in Pressure 1187 PSI Initial Opening 15 Test
 (H) Final Hydrostatic Mud 1919 PSI Initial Shut-in 60 Jars

Final Flow 30 Safety Joint
 Final Shut-in 60 Straddle
 Circ. Sub N/C
 Sampler
 Extra Packer
 Elect. Rec.
 Other
 Approved By [Signature]
 Our Representative [Signature] TOTAL PRICE \$

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 9281

Well Name & No. Spears #8-5 Test No. 3 Date 8-5-96
 Company Advantage Resources Inc Zone Tested Lans "C+D"
 Address 1715 Sherman St #1375 Denver, CO 80203 Elevation 3173 KB 3166 GL
 Co. Rep / Geo. J. Jespersen Cont. Nelr. Drlg. #1 Est. Ft. of Pay Por. %
 Location: Sec. 5 Twp. 1s Rge. 36w Co. Rawlins State Ks
 No. of Copies 1 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 4192 - 4290 Initial Str Wt Lbs. 67,000 Unseated Str Wt Lbs. 67,000
 Anchor Length 98 Wt. Set Lbs. 30,000 Wt. Pulled Loose Lbs. 15,000
 Top Packer Depth 4187 Hole Size - 7 7/8" Rubber Size - 6 3/4"
 Bottom Packer Depth 4192 Wt. Pipe I.D. - 2.7 Ft. Run 427
 Total Depth 4290 Drill Collar - 2.25 Ft. Run 427
 Mud Wt. 9.0 LCM TR Vt. 49 Wt. 8.0 Drill Pipe Size 4 1/2 x 13.5 I.D. Ft. Run 3772

Blow Description TF: Weak to fair blow built to 10'
IS: Kld off blow - no return
FE: Surface return in 4 mins slowly built to 11'
F.S: Blew off blow - no return

Recovery - Total Feet 492' Ft. in DC 427' Ft. in WP — Ft. in DP 65'
 Rec. 62 Feet Of D.M.W %gas 5 %oil 15 %water 80 Turned
 Rec. 60 Feet Of MN %gas — %oil 60 %water 40 Turned
 Rec. 367' Feet Of MN %gas — %oil 95 %water 5 Turned
 Rec. 2' Feet Of EO %gas — %oil — %water — Turned
 Rec. 2' Feet Of EO %gas — %oil — %water — Turned

BHT 126 °F Gravity 20.4 *API D^o 86 *F Corrected Gravity 17.8 *API
 RW 16 °F Chlorides 36.000 ppm Recovery Chlorides 700 ppm System
 (A) Initial Hydrostatic Mud 2113 PSI Recorder No. 13276 T-Started 0900
 (B) First Initial Flow Pressure 104 PSI @ (depth) 4200 T-Open 1108
 (C) First Final Flow Pressure 124 PSI Recorder No. 13339 T-Pulled 1423
 (D) Initial Shut-in Pressure 1321 PSI @ (depth) 4285 T-Out 1630
 (E) Second Initial Flow Pressure 176 PSI Recorder No. —
 (F) Second Final Flow Pressure 260 PSI @ (depth) —
 (G) Final Shut-in Pressure 1200 PSI Initial Opening 15 Test
 (H) Final Hydrostatic Mud 2163 PSI Initial Shut-in 60 Jars

Final Flow 60 Safety Joint
 Final Shut-in 60 Straddle
 Circ. Sub X N/C
 Sampler
 Extra Packer
 Elect. Rec.
 Other
 Approved By [Signature]
 Our Representative Rod Steinbrink TOTAL PRICE \$

Pipe Strap @ 4040

6244	6309	6245	6054	6217
6183	6204	6093	6211	6160
6127	6217	6073	6109	6089
6174	6112	6234	6161	6282
6140	6139	6137	6015	6168
6257	6126	6138	6237	6209
3713.5	371.67	371.52	368.29	371.05

6288	6111	6042	6150	630
6158	6252	6309	6175	623
6270	6106	6134	6224	616
6081	6268	6045	6261	186.9
6061	6173	6019	6189	
6338	6123	6114	6262	
371.96	370.43	365.63	6079	
		358.26	467.35	
		4050.21	collar	
		4053.15	stamp	
		4050.21	stamp	
		4053.15	Load	4052.15
		4050.21	stamp	

Board is 2.94-10.95
 4053.15
 4050.21
 399

15-153-20811-00-00



Morgan Mud, Inc. 102 West 8th Street P.O. Box 644 McCook, Nebraska 69001 Phone: (308) 345-1255

DRILLING MUD REPORT REPORT NO. 2 DATE 7-31-96 DEPTH 2180

OPERATION: Advantage Resources, ADDRESS: DENVER CO, REPORT FOR: ACAMAN, WELLS: SPARS #8-5, DRILLING: 7 3/8, 4 1/2, 6 1/4

Table with columns: MUD PROPERTIES, EQUIPMENT, SIZE, HRS./TOUR, MUD PROPERTIES SPECIFICATIONS, TREATMENT

PLEASE CALL IF ANY LOSSES OR PROBLEMS OR 2850 THANK YOU!

Jet and clean pits and run water as needed to maintain mud wt. 8.8 or less! At 2875' treatment cedar hulls - mix 5 gal for us 37.35 sec/ft 5 mud seal 20 c/s hulls

Summary section with fields for Well Engineer (Dave Lines), Hours (345-7262), and various logs.



Morgan Mud, Inc. 102 West 8th Street P.O. Box 644 McCook, Nebraska 69001 Phone: (308) 345-1255

DRILLING MUD REPORT REPORT NO. 1 DATE 7-30-96 DEPTH 2371

OPERATION: Advantage Resources, ADDRESS: DENVER CO, REPORT FOR: ACAMAN, WELLS: SPARS #8-5, DRILLING: 7 3/8, 4 1/2, 6 1/4

Table with columns: MUD PROPERTIES, EQUIPMENT, SIZE, HRS./TOUR, MUD PROPERTIES SPECIFICATIONS, TREATMENT

PLEASE CALL IF ANY LOSSES OR PROBLEMS OR 1900 THANK YOU!

Jet and clean pits and run water as needed to maintain mud wt. 8.8 or less! At 1950' treatment Dakota - mix 5 mud seal 20 c/s hulls

Summary section with fields for Well Engineer (Dave Lines), Hours (345-7262), and various logs.



Morgan Mud, Inc. 102 West 8th Street P.O. Box 644 McCook, Nebraska 69001 Phone: (308) 345-1255

DRILLING MUD REPORT REPORT NO. 3 DATE 8-1-96 DEPTH 3780

OPERATION: Advantage Resources, ADDRESS: DENVER CO, REPORT FOR: ACAMAN, WELLS: SPARS #8-5, DRILLING: 7 3/8, 4 1/2, 6 1/4

Table with columns: MUD PROPERTIES, EQUIPMENT, SIZE, HRS./TOUR, MUD PROPERTIES SPECIFICATIONS, TREATMENT

PLEASE CALL IF ANY LOSSES OR PROBLEMS OR 3900 THANK YOU!

Jet and clean pits and run water as needed to maintain mud wt. 8.8 or less! At 3900' - with mud wt. 8.8 or less - mud up - mix 45 sec/ft to drill 20 sec/ft to DST

Summary section with fields for Well Engineer (Dave Lines), Hours (345-7262), and various logs.



Morgan Mud, Inc. 102 West 8th Street P.O. Box 644 McCook, Nebraska 69001 Phone: (308) 345-1255

DRILLING MUD REPORT REPORT NO. 3 DATE 8-1-96 DEPTH 3000

OPERATION: Advantage Resources, ADDRESS: DENVER CO, REPORT FOR: ACAMAN, WELLS: SPARS #8-5, DRILLING: 7 3/8, 4 1/2, 6 1/4

Table with columns: MUD PROPERTIES, EQUIPMENT, SIZE, HRS./TOUR, MUD PROPERTIES SPECIFICATIONS, TREATMENT

PLEASE CALL IF ANY LOSSES OR PROBLEMS OR 2850 THANK YOU!

Jet and clean pits and run water as needed to maintain mud wt. 8.8 or less! At 2850' - with mud wt. 8.8 or less - mud up - mix 45 sec/ft to drill 20 sec/ft to DST

Summary section with fields for Well Engineer (Dave Lines), Hours (345-7262), and various logs.

Handwritten notes and signatures at the bottom right of the page.

15-153-20811-00-00



DRILLING MUD REPORT
Morgan Mud, Inc.
102 West 8th Street
P.O. Box 644
McCook, Nebraska 69001
Phone: (308) 345-1255

DRILLING MUD REPORT
DATE 8-5-96
WELL 151153-20811W/E

OPERATOR: Advantage Resources
ADDRESS: Denver CO
REPORT FOR: Herman
MCCOOK #85
MUD PROPERTIES: 88% 224 245 270 78 3 46 38 64 427

Table with columns: TIME, SIZE, HES, TOUR, EQUIPMENT. Includes mud properties and equipment specifications.

TOOL TREATMENT
SUGGEST: Run 1/2 to 3/4 inch stream of water and jet as needed to maintain MVA wt. 9.2 or less!
ON THIS & GO IN SWIM! REEL HOLE FULL!

Summary table with columns: Product, Units, Cost, Remarks. Includes items like Cement, Sand, and Water.



DRILLING MUD REPORT
Morgan Mud, Inc.
102 West 8th Street
P.O. Box 644
McCook, Nebraska 69001
Phone: (308) 345-1255

DRILLING MUD REPORT
DATE 8-5-96
WELL 151153-20811W/E

OPERATOR: Advantage Resources
ADDRESS: Denver CO
REPORT FOR: Herman
MCCOOK #85
MUD PROPERTIES: 88% 224 245 270 78 3 46 38 64 427

Table with columns: TIME, SIZE, HES, TOUR, EQUIPMENT. Includes mud properties and equipment specifications.

TOOL TREATMENT
SUGGEST: Run 1/2 to 3/4 inch stream of water and jet as needed to maintain MVA wt. 9.2 or less!
ON THIS & GO IN SWIM! REEL HOLE FULL!

Summary table with columns: Product, Units, Cost, Remarks. Includes items like Cement, Sand, and Water.



DRILLING MUD REPORT
Morgan Mud, Inc.
102 West 8th Street
P.O. Box 644
McCook, Nebraska 69001
Phone: (308) 345-1255

DRILLING MUD REPORT
DATE 8-5-96
WELL 151153-20811W/E

OPERATOR: Advantage Resources
ADDRESS: Denver CO
REPORT FOR: Herman
MCCOOK #85
MUD PROPERTIES: 88% 224 245 270 78 3 46 38 64 427

Table with columns: TIME, SIZE, HES, TOUR, EQUIPMENT. Includes mud properties and equipment specifications.

TOOL TREATMENT
SUGGEST: Run 1/2 to 3/4 inch stream of water and jet as needed to maintain MVA wt. 9.2 or less!
ON THIS & GO IN SWIM! REEL HOLE FULL!

Summary table with columns: Product, Units, Cost, Remarks. Includes items like Cement, Sand, and Water.



DRILLING MUD REPORT
Morgan Mud, Inc.
102 West 8th Street
P.O. Box 644
McCook, Nebraska 69001
Phone: (308) 345-1255

DRILLING MUD REPORT
DATE 8-4-96
WELL 151153-20811W/E

OPERATOR: Advantage Resources
ADDRESS: Denver CO
REPORT FOR: Herman
MCCOOK #85
MUD PROPERTIES: 88% 224 245 270 78 3 46 38 64 427

Table with columns: TIME, SIZE, HES, TOUR, EQUIPMENT. Includes mud properties and equipment specifications.

TOOL TREATMENT
SUGGEST: Run 1/2 to 3/4 inch stream of water and jet as needed to maintain MVA wt. 9.2 or less!
ON THIS & GO IN SWIM! REEL HOLE FULL!

Summary table with columns: Product, Units, Cost, Remarks. Includes items like Cement, Sand, and Water.

15-153-20811-00-00



UNDRILLING MUD REPORT
Morgan Mud, Inc.
 102 West 8th Street
 P.O. Box 644
 McCook, Nebraska 69001
 Phone: (308) 345-1255

DRILLING MUD REPORT REPORT NO. 10
 DATE 8-6-96 DEPTH 4200
 API STATE COUNTY WELL
 151153 20811 WE

OPERATOR: Advantage Resources
 ADDRESS: NEBRASKA Drilling
 REPORT FOR: DENVER CO
 NAME OF WELL: 151153 20811 WE
 WELL NO: 10
 DATE: 8-6-96
 DEPTH: 4200
 STATE: NE
 COUNTY: DENVER
 WELL: 151153 20811 WE

TEMPERATURE	FLUIDITY	PH	MUD PROPERTIES	SIZE	WTS / TON	EQUIPMENT	SIZE	WTS / TON
7.20	44.4	9.2	9.2	15	15	PREMIER 100	15	15
4.4	40	9.2	9.2	15	15	PREMIER 100	15	15
3.2	37	9.2	9.2	15	15	PREMIER 100	15	15
2.2	34	9.2	9.2	15	15	PREMIER 100	15	15
1.2	31	9.2	9.2	15	15	PREMIER 100	15	15
0.2	28	9.2	9.2	15	15	PREMIER 100	15	15

MUD PROPERTIES SPECIFICATIONS

WATER 9.2
 WISCONSIN 45
 SUGGEST: 1 CAUSTIC
 2 LIGHTER

TOOL TREATMENT

THANK YOU!
 ALL TOOLS MIX GEL FOR US.
 45 SCALD TO DRILL
 50 SCALD TO DST

RUN 1/2 TO 3/4 INCH STREAM OF WATER AND SET AS NEEDED TO MAINTAIN MUD WT. 9.2 OR LESS!

ON TRIP & GO IN SLOW & FEEL MUD FULL!

WELL ENGINEER: DAVE LINES
 PAUL TEEL
 PHONE: 345-7262
 345-7532
 ADDRESS: 102 WEST 8TH
 PHONE: (308) 345-1255

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

"I am among you as one who serves" Lk 22-27

DATE	UNITS	CUM. UNITS	CUM. COST	COST	REMARKS
8-6-96	10	322	6.70	65.00	Drilling
8-6-96	1	11	46.00	40.00	Loss Material
8-6-96	1	20	10.00	0.00	Drilling
8-6-96	1	55	10.00	0.00	Drilling



DRILLING MUD REPORT
Morgan Mud, Inc.
 102 West 8th Street
 P.O. Box 644
 McCook, Nebraska 69001
 Phone: (308) 345-1255

DRILLING MUD REPORT REPORT NO. 9
 DATE 8-5-96 DEPTH 4300
 API STATE COUNTY WELL
 151153 20811 WE

OPERATOR: Advantage Resources
 ADDRESS: NEBRASKA Drilling
 REPORT FOR: DENVER CO
 NAME OF WELL: 151153 20811 WE
 WELL NO: 9
 DATE: 8-5-96
 DEPTH: 4300
 STATE: NE
 COUNTY: DENVER
 WELL: 151153 20811 WE

TEMPERATURE	FLUIDITY	PH	MUD PROPERTIES	SIZE	WTS / TON	EQUIPMENT	SIZE	WTS / TON
8.15	45.00	9.1	9.1	15	15	PREMIER 100	15	15
7.15	42	9.1	9.1	15	15	PREMIER 100	15	15
6.15	39	9.1	9.1	15	15	PREMIER 100	15	15
5.15	36	9.1	9.1	15	15	PREMIER 100	15	15
4.15	33	9.1	9.1	15	15	PREMIER 100	15	15
3.15	30	9.1	9.1	15	15	PREMIER 100	15	15

MUD PROPERTIES SPECIFICATIONS

WATER 9.1
 WISCONSIN 45
 SUGGEST: 1 CAUSTIC
 2 LIGHTER

TOOL TREATMENT

THANK YOU!
 ALL TOOLS MIX GEL FOR US.
 45 SCALD TO DRILL
 50 SCALD TO DST

RUN 1/2 TO 3/4 INCH STREAM OF WATER AND SET AS NEEDED TO MAINTAIN MUD WT. 9.1 OR LESS AND TO DOWNHOLE CHANGES!

ON TRIP & GO IN SLOW & FEEL MUD FULL!

WELL ENGINEER: DAVE LINES
 PAUL TEEL
 PHONE: 345-7262
 345-7532
 ADDRESS: 102 WEST 8TH
 PHONE: (308) 345-1255

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

"I am among you as one who serves" Lk 22-27

DATE	UNITS	CUM. UNITS	CUM. COST	COST	REMARKS
8-5-96	10	322	6.70	65.00	Drilling
8-5-96	1	11	46.00	40.00	Loss Material
8-5-96	1	20	10.00	0.00	Drilling
8-5-96	1	55	10.00	0.00	Drilling