

plugged 10-4-87

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

Operator: License # 4619
Name Black Eagle Resources
Address P.O. Box 458
Hays, Kansas 67601

Purchaser

Operator Contact Person Carl Barnes
Phone 913-628-6701

Contractor: License # 9087
Name R & C Drilling Co., inc.

Wellsite Geologist Mark Torr
Phone 913-628-3131

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If **OWNO**: old well info as follows:
Operator,
Well Name,
Comp. Date, Old Total Depth.....

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

9/30/87 10/4/87 10-4-87
Spud Date Date Reached TD Completion Date
3210' 1650'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 200 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set.....feet
If alternate 2 completion, cement circulated
from.....feet depth to.....w/.....SX cmt
Cement Company Name Allied Cementing Co.
Invoice # 830

API NO. 15-163-22-951-0000
County Rooks
C-N $\frac{1}{2}$ SE SE 24 9s 19 XX
..... Sec..... Twp..... Rge..... East West
990 Ft North from Southeast Corner of Section
660 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

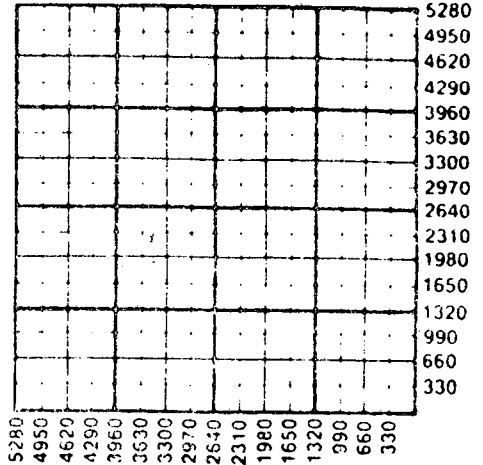
Lease Name Mayhew Well # A-1

Field Name

Producing Formation.....

Elevation: Ground 2194 KB 2199

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #.....

Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
Sec Twp Rge East West

Surface Water.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
Sec Twp Rge East West

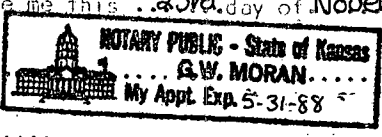
Other (explain).....
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log shall be attached with this form. 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 E. Carl Barnes
Title Operator Date 11/23/87

Subscribed and sworn to before me this 23rd day of November, 1987.
Notary Public G.W. Moran
Date Commission Expires.....



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 XCC SWD/Rep NGPA
 KCC Plug Other
RECEIVED
STATE CORPORATION COMMISSION (Specify)
NOV 25 1987
11-29-87

Sec 24 Twp 9 Rge 19 C

Operator Name Black Eagle Resources Lease Name Mayhew Well # A-1

Sec. 24 Twp. 9S Rge. 19 East West County Books

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name	Top	Bottom
ANHYDRITE	1588	
TOPEKA LIMESTONE	3137	

CASING RECORD <input checked="" type="checkbox"/> New <input 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	201b.	200'	60/40po2	140	2% gel/3%CC

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth

TUBING RECORD			
Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First Production	Producing Method				
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....				
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
		bbbls	MCF	bbbls	CFPB

METHOD OF COMPLETION: Open Hole Perforation
 Other (Specify)
 Quality Completed Commingled

Disposition of gas: Vented Sold Used on Lease

Production Interval:

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

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

ALLIED CEMENTING CO., INC.

No 830

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	10-5-87	Sec.	24	Twp.	9	Range	19	Called Out		On Location		Job Start	3:00 PM	Finish	6:00 PM
Lease	<i>Playlow</i>	Well No.	<i>A-1</i>	Location	<i>Plainville 4 1/2 N</i>			County	<i>Rooks</i>	State	<i>KS</i>				

Contractor	<i>RFC Only</i>	
Type Job	<i>Plug</i>	
Hole Size	<i>0 7/8</i>	T.D. <i>3210</i>
Csg.		Depth
Tbg. Size		Depth
Drill Pipe		Depth
Tool		Depth
Cement Left in Csg.		Shoe Joint
Press Max.		Minimum
Meas Line		Displace
Perf.		

Owner *GM*

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

Charge To *Black Eagle Resources*

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor

Purchase Order No.

X *1*

EQUIPMENT

Pumptrk	No. <i>153</i>	Cementer	<i>Dave</i>
		Helper	
Pumptrk	No.	Cementer	<i>Blair</i>
		Helper	
		Driver	
Bulktrk	<i>60</i>	Driver	<i>Randy</i>
Bulktrk		Driver	

Flowseal CEMENT

Amount Ordered *195 2/3 6 1/2 gal 3 1/2 1 c*

Consisting of

Common
Poz. Mix
Gel.
Chloride
Quickset

Sales Tax

DEPTH of Job	
Reference:	<i>Pump trk plug</i>
	<i>Plug</i>
	Sub Total
	Tax
	Total

Handling

Mileage

Sub Total

Total

Floating Equipment

Remarks:

30 @ 1650

100 @ 945 + 1

40 @ 200

10 @ 40

RECEIVED

STATE CORPORATION COMMISSION

NOV 25 1987

CONSERVATION DIVISION

Wichita, Kansas

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

DAILY DRILLING REPORT

CONTRACTOR		DATE	
COMPANY		WELL NO.	
LEASE		RIG NO.	
DISTRICT	COUNTY	D. P. STRING NO.	SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
				32 mi	—	DM Bill Buyak	8
						EM Help Wanted	
						H Harvey Rupp	8
SLOPE TEST		ACCIDENT: (GIVE NAME)				H	
③	FT.					H	
DEG. OFF						DRLR Joe Leikam	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 4-30-87 / 8-1-87

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM Francis Shively	9
						EM Carroll Monda	8
						H Loren Hillman	8
SLOPE TEST		ACCIDENT: (GIVE NAME)				H	
③	FT.					H	
DEG. OFF						DRLR Larry Folkers	9

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT	4-5	DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: Lower Derrick @ Brookover #4 move to Mayhew #1 & Rig up

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
0	209	sand, shale				DM Loren Hillman	8
						EM Carroll Monda	8
						H Steve Clark	8
SLOPE TEST		ACCIDENT: (GIVE NAME)				H	
③ 3/4	FT.	20 5x gel				H	
DEG. OFF		2 5x lime				DRLR Tony Richardson	4
		32 miles					

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT		DRILLING	3	STATE CORPORATION COMMISSION	
SIZE	1 3/4	VISC.		CORING		SIZE COLL.	
MAKE	Sin	WTR. LOSS-C.C.	10	OTHER	15	NOV 25 1987	FT.
SERIAL NO.	15	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	10	PH.	6 1/2	TRIP		CONSERVATION DIVISION	FT.
HOURS RUN	3	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: ③ 3:00 - 5:45 rig up mayhew, derrick set up 5:45 - 7:15
 sand 209' 12 1/4" - 7:45 - 10:00 - 1 1/2" - 10:00 - 10:00
 cemented w/ 140 lb 60/40 pos. 12% gel 3% cc cement derrick
 plug down @ 10:00 pm. fix fuel lines clunks w. TCS

DAILY DRILLING REPORT

CONTRACTOR RDC	DATE 10 1 87
COMPANY Black Eagle Res.	LEASE Maylow
DISTRICT	WELL NO. A1
COUNTY Rooks	RIG NO. 2
STATE KS	D. P. STRING NO.
	SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
209	230					DM Bill Buyak	8
						EM Help Wanted	
						H Harvey Rupp	8
SLOPE TEST		ACCIDENT: (GIVE NAME)					
@	FT.						
DEG. OFF		32mi		DRLR		Joe Lerkam	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT		DRILLING	1	SIZE D. P.	
SIZE	7/8	VISC.		CORING		SIZE COLL.	
MAKE	J-11	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	RR	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	209	PH.		TRIP		COLLARS	FT.
HOURS RUN	1	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: w/c Change oil & filters on all mtrs, grease fan hubs, clean air breathers on dwthlight plant, nipple up, rack pipe, go in hole w/ bit drill plus 2 cem @ 6AM

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
230	1080	shale				DM Francis Shively	8
1080	1305	sand				EM Carroll Meng	8
1305	1515	shale				H Loren Hillman	8
SLOPE TEST		ACCIDENT: (GIVE NAME)					
@	FT.						
DEG. OFF		55 miles		DRLR		Larry Folkers	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT		DRILLING	7	SIZE D. P.	
SIZE	7/8	VISC.		CORING		SIZE COLL.	
MAKE	J-11 HTC	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	RR	FILTER CAKE		REPAIRS	1/2	KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN	8	MTL. ADDED (REMARKS)		Set Rig	1/2	TOTAL	FT.

REMARKS: Set Rig @ 2414 Replace Boomline 1/4 hr - Jet #1 @ 836 1/4 hr Replace 4" union on Viberator Hose 1/2 hr

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1515	1588	sand, shale				DM Terry Eggers	8
1588	1613	anhydrite				EM Steve Clark	8
1613	1738	shales				H	
SLOPE TEST		ACCIDENT: (GIVE NAME)					
@	FT.						
DEG. OFF		32 miles		DRLR		Tony Karlson	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	2 1/4 + 8 1/4	SIZE D. P.	
SIZE	7 7/16	VISC.		CORING	1 1/4	SIZE COLL.	
MAKE	J-11 HTC WM	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	RV	FILTER CAKE		REPAIRS	1/4	KELLY DOWN	FT.
DEPTH IN		PH.		TRIP	2	COLLARS	FT.
HOURS RUN	10 1/4	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 3:00-5:30 drlg w/ 1/4 hr truck r/c @ 1539 5:30-7:30 trip (1 bit @ 1631' 7:30-11:00 drlg w/ 1/4 hr + STATE CORPORATION-COMMISSION

DAILY DRILLING REPORT

CONTRACTOR RDC		DATE 10 2 87	
COMPANY Black Eagle Res	LEASE Mayhew	WELL NO. A1	RIG NO. 2
DISTRICT	COUNTY Rooks	STATE KS	D. P. STRING NO. SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1738	2052					DM Bill Buyak	8
				32m		EM Vacancy	
						H Harvey Rupp	8
SLOPE TEST		ACCIDENT: (GIVE NAME)		1		H	
@	FT.					H	
DEG. OFF						DRLR Joe Leikam	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	7 1/2	SIZE D. P.	
SIZE	7 1/8	VISC.		CORING		SIZE COLL.	
MAKE	WM	WTR. LOSS C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1631	PH.		TRIP		COLLARS	FT.
HOURS RUN	10 3/4	MTL. ADDED (REMARKS)		TOTAL		TOTAL	FT.

REMARKS: Ser rig 1/4 jet #1 @ 1907 1/4

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2052	2220	shale + lime				DM Francis Shively	8
						EM Carroll Mong	8
						H Loren Hillman	8
SLOPE TEST		ACCIDENT: (GIVE NAME)		Move bed trailer from Brookover to Mayhew 20.9 miles		H	
@	FT.			5 hrs 5.5 miles		H	
DEG. OFF						DRLR Larry Folkers	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	Native	DRILLING	3 1/2	SIZE D. P.	
SIZE	7 1/8	VISC.		CORING		SIZE COLL.	
MAKE	Walker Msc	WTR. LOSS C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS	4	KELLY DOWN	FT.
DEPTH IN	1631	PH.		TRIP		COLLARS	FT.
HOURS RUN	14 1/4	MTL. ADDED (REMARKS)		TOTAL	Rig Jet 1/2	TOTAL	FT.

REMARKS: Ser Rig @ 2062 1/4 hr New Jet in #1 Jet Pull pipe out to install wash pipe + packing @ 11:00 to 3:00 O/B to drill @ 3:00

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2220	2424	shales				DM Clarence Gilbert	0008
						EM Steve Clark	8
						H Jim Schuckman	8
SLOPE TEST		ACCIDENT: (GIVE NAME)		32 miles		H	
@	FT.					H	
DEG. OFF						DRLR Tony Richardson	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	1 1/2	DRILLING	1 1/2	SIZE D. P.	
SIZE	1 1/4	VISC.		CORING	1 1/4	SIZE COLL.	
MAKE	WM	WTR. LOSS C.C.		OTHER	1 1/4	JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1631	PH.		TRIP		COLLARS	FT.
HOURS RUN	2 1/4	MTL. ADDED (REMARKS)		TOTAL		TOTAL	FT.

REMARKS: 3:00 - 2424 1 1/4 hr 1 1/2 jet in 2224 RECEIVED 1 1/4 hr 1 1/2 jet #2 @ 2306 STATE CORPORATION COMMISSION

NOV 25 1987

APPROVED

CONSERVATION DIVISION
Wichita, Kansas

TOOL PUSHER

DAILY DRILLING REPORT

CONTRACTOR RBC		DATE 10 3 87	
COMPANY Black Eagle Ros		WELL NO. A-1	RIG NO. 2
LEASE Maxlow		D. P. STRING NO.	SIZE
DISTRICT	COUNTY Rooks	STATE KS	

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2424	2633			32m	-	Bill Buyak	8
						Raymond Buyak	8
						Harvey Rupp	8
SLOPE TEST		ACCIDENT (GIVE NAME)					
@	FT.						
DEG. OFF						Joe Leikam	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	7/2	SIZE D. P.	
SIZE	7/8	VIS.		CORING		SIZE COLL.	
MAKE	WM	WTR. LOSS. C. C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1631	PH.		TRIP		COLLARS	FT.
HOURS RUN	29 1/4	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: Ser rig 1/4 jet #1 @ 2520 1/4

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2633	2765	shale				Francis Shively	8
						Carroll Mong	8
						Loren Hillman	8
SLOPE TEST		ACCIDENT (GIVE NAME)					
@	FT.						
DEG. OFF						Larry Folkers	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	4	WEIGHT		DRILLING	4 3/4	SIZE D. P.	
SIZE	1 1/8	VIS.	Native	CORING		SIZE COLL.	
MAKE	W Mac	WTR. LOSS. C. C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1631	PH.		TRIP	3	COLLARS	FT.
HOURS RUN	34	MTL. ADDED (REMARKS)			Jet 4 Rig 1/4	TOTAL	FT.

REMARKS: Ser Rig @ 2644 1/4 hr. Jet #1 + Trip out 8:45 - 11:45 Drill pipe Collar washed out. 11:45 - 3:00 Dilg

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2765	2987	shales				Clarence Gilbert	8
		155x starch				Steve Clark	8
		20x preservative				Jim Schuckman	8
SLOPE TEST		ACCIDENT (GIVE NAME)					
@	FT.						
DEG. OFF		32 miles				Innu Richardson	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT		DRILLING	11 1/4	SIZE D. P.	
SIZE	1 1/8	VIS.		CORING	11 1/4	SIZE COLL.	
MAKE	WM	WTR. LOSS. C. C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1631	PH.		TRIP		COLLARS	FT.
HOURS RUN	41 1/4	MTL. ADDED (REMARKS)			jet 1/4 + 1/4	TOTAL	FT.

REMARKS: 3:00 - Dilg w/ 1/4 hr to ck rig @ 2766 REFILLING jet #1 @ 2920' 1/4 hr to jet #1 blockout

STATE CORPORATION COMMISSION

NOV 25 1987

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CONSERVATION DIVISION - Wichita, Kansas

TOOL PUSHER

DAILY DRILLING REPORT

CONTRACTOR Roc		DATE 10 4 87	
COMPANY Bridle Eagle Res	LEASE Mayhew	WELL NO. A1	RIG NO. 2
DISTRICT	COUNTY Dodge	STATE KS	D. P. STRING NO. SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2987	3166			32m		DM Bill Buyak	8
						EM Raymond Buyak	8
						H Harvey Rupp	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
@	FT.						
DEG. OFF						DRLR Tom Leikow	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	9.2	DRILLING	7 1/4	SIZE D. P.	
SIZE	7 7/8	VISC.	36	CORING		SIZE COLL.	
MAKE	WM	WTR. LOSS-C.C.		OTHER	4	JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1631	PH.		TRIP		COLLARS	FT.
HOURS RUN	49	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: Saw sig 1/4

11 starsch 10 hulle 20 gal

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3166	3210	Shale & Lime				DM Francis Shively	8
						EM Carroll Mang	8
						H Loren Hillman	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
@	FT.						
DEG. OFF						DRLR Larry Foltz	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	9.3	DRILLING	1 3/4	SIZE D. P.	
SIZE	7 7/8	VISC.	37	CORING		SIZE COLL.	
MAKE	WM	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1631	PH.		TRIP	Plugs 6 1/4	COLLARS	FT.
HOURS RUN	50 3/4	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: sev Rig @ 3195 1/2 hr Pull + strip pipe @ 3210. Band x 5' long Lay down collars & drill pipe Run in 12 Plugging stands

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM Clarence Gilbert	8
						EM Steve Clark	8
						H Tom Schuckman	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
@	FT.						
DEG. OFF						DRLR Tom Richardson	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS:

STATE CORPORATION COMMISSION

NOV 25 1987

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CONSERVATION DIVISION
Wichita, Kansas

TOOL
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MIDLAND MUD, INC.

**DRILLING MUD
CHEMICALS
SERVICE**

P.O. BOX 64
Hays, Kansas 67601
(913) 628-3345

P.O. Box 8732
Pratt, Kansas 67124
316-672-9336



DRILLING MUD REPORT

REPORT NO. 1

DATE 10-1- 1987 DEPTH 1581

API WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <u>BLACK EAGLE RESOURCES</u>	CONTRACTOR <u>REC DRIG.</u>	RIG NO. <u>2</u>
ADDRESS <u>HAYS KS.</u>	ADDRESS <u>RIG</u>	SPUD DATE <u>9-30-87</u>
REPORT FOR MR. <u>CARL BARN</u>	REPORT FOR MR. <u>FOLKERS</u>	SECTION, TOWNSHIP, RANGE <u>24 9 19</u>

WELL NAME AND NO. <u>MAYHEW A-1</u>	FIELD OR BLOCK NO.	COUNTY <u>HOOKS</u>	STATE <u>KS.</u>
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OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
PRESENT ACTIVITY <u>DRIG.</u>		SURFACE <u>8 5/8</u> IN. at <u>209</u> FT.		HOLE <u>118</u> PITS <u>500</u>		PUMP SIZE X IN. <u>5 1/2</u> X <u>14</u>		ANNULAR VEL. (FT./MIN.) OPPOSITE DP <u>178</u>	
BIT SIZE (IN.) <u>7 7/8</u>	NO.	INTERMEDIATE IN. at FT.		TOTAL CIRCULATING VOLUME <u>618</u>		PUMP MAKE		OPPOSITE COLLAR <u>322</u>	
DRILL PIPE SIZE <u>4 1/2</u>	TYPE	PRODUCTION OR LINER IN. at FT.		IN STORAGE <u>0</u>		BBL/STROKE <u>113</u>		CIRCULATING PRESSURE PSI	
DRILL COLLAR SIZE <u>6 1/4</u>	LENGTH	MUD TYPE <u>NATIVE</u>				STROKE/MIN <u>64</u>		BOTTOMS UP (MIN.) <u>16+</u>	
						BBL./MIN. <u>7.2</u>		SYSTEM TOTAL (MIN.) <u>85+</u>	

Sample from <input type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES	DAILY COST <u>137.94</u>	CUMULATIVE COST <u>137.94</u>
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Time Sample Taken	MUD PROPERTIES SPECIFICATIONS
Depth (ft)	WEIGHT <u>92.96</u>
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)	VISCOSITY <u>28-29</u>
Mud Gradient (psi/ft)	FILTRATE <u>W.C.</u>
Funnel Viscosity (sec/qt) API at °F	BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR
Plastic Viscosity cp at °F	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER
Yield Point (lb/100 sq ft)	MATERIALS RECOMMENDED
Gel Strength (lb/100 sq ft) 10 sec/10 min	<u>SUGGEST: NATIVE MUD & WATER TO 2950'</u>
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>OR GEOLOGISTS REQUEST:</u>
Filtrate API (ml/30 min)	<u>AT 2950 OR GEOLOGISTS REQUEST JET #1</u>
Cake Thickness 32nd in-API <input type="checkbox"/> HP-HT- <input type="checkbox"/>	<u>CLEAN BLOCK OUT #2 LOWER VOLUME</u>
Alkalinity, Mud (P_m)	<u>& MIX: 2 SXS PRESERVATIVE</u>
Alkalinity, Filtrate (P_f/M_f)	<u>3 SXS STARCH @ 4-6 min/sx.</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm	<u>SALT GEL FOR 40-42 UIS:</u>
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>C/S HULLS FOR 1-2#/bbl.</u>
Sand Content (% by Vol)	<u>RUN WATER TO CONTROL WT. 9⁸-10⁶ #/GAL.</u>
Solids Content (% by Vol)	<u>SHORT TRIP AS NEEDED.</u>
Oil Content (% by Vol)	
Water Content (% by Vol)	
L.C.M. #/bbl	
Preservative #/bbl	

REMARKS KEEP HOLE FULL.

Thank you!

Midland Mud Rep. Keith Powers Phone: 625-6350 Radio: _____ Unit # _____
 For Mud, Call: Hays Phone: 628-3345

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the use of same.

MUD USED 24 hrs	/ ON HAND	REMARKS
Bentonite-	<u>20 1 2</u>	
C/S Hulls-	<u>1 25</u>	
Starch-	<u>1 65</u>	
Salt Gel-	<u>1 200</u>	
Preservative-	<u>1 3</u>	
Soda Ash-	<u>1</u>	
Caustic-	<u>1</u>	
Polymer-	<u>1</u>	
Thinner-	<u>1</u>	Volume Gained: Barrels
lime-	<u>2 1 2</u>	()
	<u>1</u>	Loss Circulation: Barrels Lost
	<u>1</u>	Hours Lost ()

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Wichita, Kansas

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**DRILLING MUD
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Pratt, Kansas 67124
316-672-9336

DRILLING MUD REPORT REPORT NO. 2

DATE 10-4- 1987 DEPTH 3210

API WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR BLACK EAGLE	CONTRACTOR R&C	RIG NO. 2
ADDRESS HAYS KS.	ADDRESS RIG	SPUD DATE 9-30-87
REPORT FOR MR. TORR	REPORT FOR MR. Folkers.	SECTION, TOWNSHIP, RANGE 24 9 19

WELL NAME AND NO. **MAYHEW A-1** FIELD OR BLOCK NO. **Rooks** COUNTY **KS.** STATE **KS.**

OPERATION	CASING	MUD VOLUME (BBL)	CIRCULATION DATA
PRESENT ACTIVITY Plugging	SURFACE 8 3/8 IN. at 209 FT.	HOLE PITS 300	PUMP SIZE X IN. 5 1/2 X 14
BIT SIZE (IN.) NO. 7 7/8	INTERMEDIATE IN. at FT.	TOTAL CIRCULATING VOLUME	ANNULAR VEL. (FT./MIN.) OPPOSITE DP. 165
DRILL PIPE SIZE TYPE 4 1/2	PRODUCTION OR LINER IN. at FT.	IN STORAGE 0	PUMP MAKE MODEL BBL/STROKE STROKE/MIN .113 60
DRILL COLLAR SIZE 6 1/4	MUD TYPE SALT GEL/STARCH		OPPOSITE COLLAR 300
			BOTTOMS UP (MIN.) SYSTEM TOTAL (MIN.)

Sample from Flowline Pit Flowline Temperature MUD PROPERTIES DAILY COST **1438 35** CUMULATIVE COST **41576.29**

Time Sample Taken 11:20	MUD PROPERTIES SPECIFICATIONS		
Depth (ft) 3210	WEIGHT 98-100	VISCOSITY 40-42	FILTRATE 12-15
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft) 19.71	BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		
Mud Gradient (psi/ft) 505	MATERIALS RECOMMENDED		
Funnel Viscosity (sec/qt) API at _____ °F 37	<p><i>Thank you!</i></p>		
Plastic Viscosity cp at _____ °F			
Yield Point (lb/100 sq ft)			
Gel Strength (lb/100 sq ft) 10 sec/10 min			
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter 6.8			
Filtrate API (ml/30 min) 12.0			
Cake Thickness 32nd in API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/> 2			
Alkalinity, Mud (P _m)			
Alkalinity, Filtrate (P _f /M _f)			
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm 68000			
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) HOY			
Sand Content (% by Vol) TR			
Solids Content (% by Vol) 7.5			
Oil Content (% by Vol) NIL			
Water Content (% by Vol) 92.5			
L.C.M. #/bbl 1 1/2			
Preservative #/bbl .05			

REMARKS

Midland Mud Rep. Keith Powers Phone: 625-6350 Radio: _____ Unit # _____
For Mud, Call: Hays Phone: 628-3345

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MUD USED 24 hrs	/ ON HAND	REMARKS
Bentonite-	1 1 11	
C/S Hulls-	14 1 11	
Starch-	31 1 34	
Salt Gel-	19 1 181	
Preservative-	2 1 1	
Soda Ash-	1	
Caustic-	1	
Polymer-	1	
Thinner-	1	Volume Gained: Barrels
Lime-	- 1 2	()
	1	Loss Circulation: Barrels Lost
	1	()
	1	Hours Lost
	1	()

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