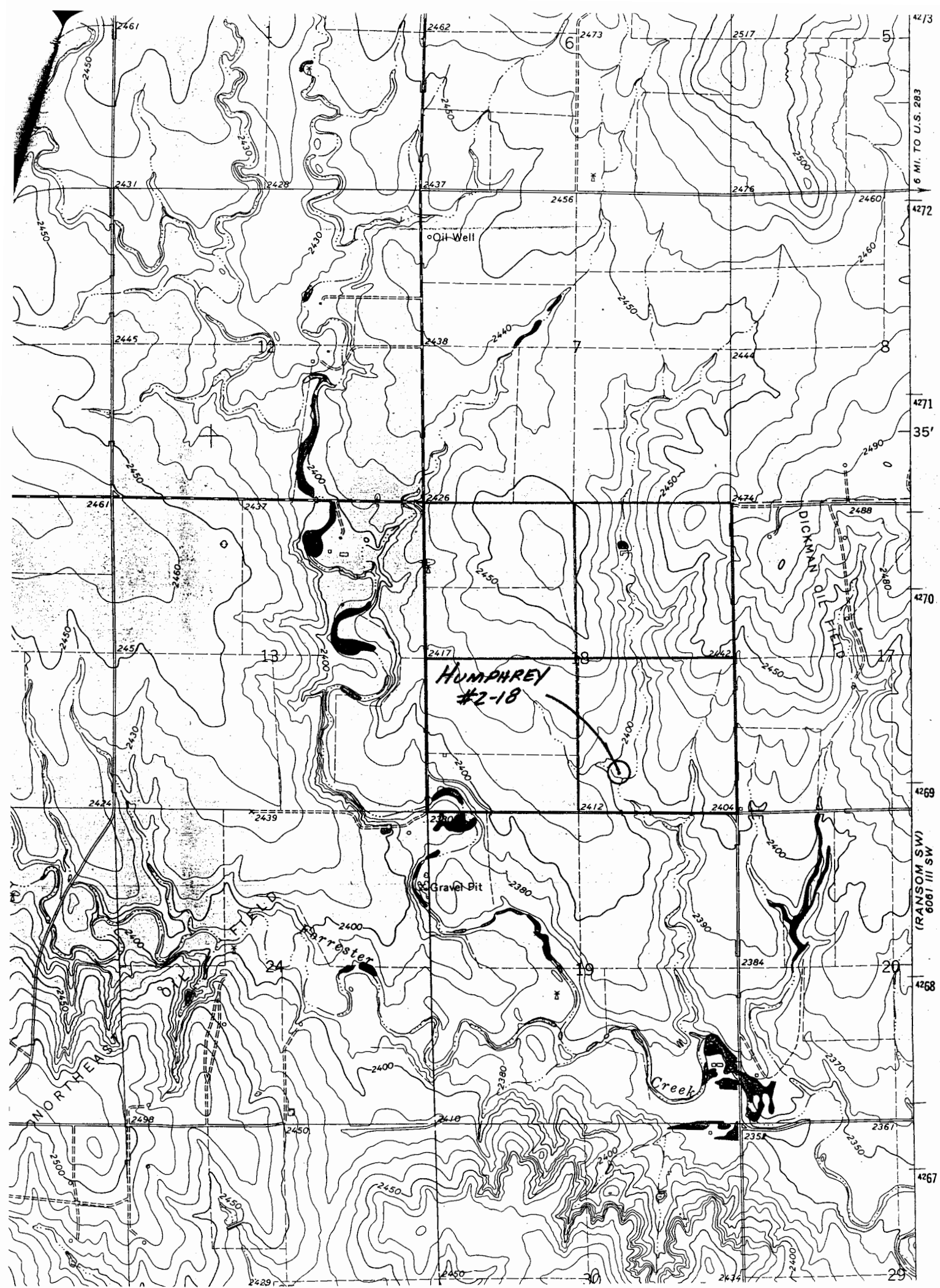




MURRAY CASING CREWS, INC.

CASING & TUBING CREWS

BOX 27

GREAT BEND, KANSAS 67530

No 19967

Hays, Kansas
Phone 628-8011

Great Bend, Kansas
Phone 793-7587

DATE 11-5-84 198

Company Grand Old Operating Co Called By

Address E. O. or F. O. No.

Lease Hwy 111-25 Well No. 2-15 County Wichita

SERVICE REPORT

Rods	Amount:
Tubing	Amount:
Casing <u>RW 4340 Ft 5 1/2</u>	Amount:
Power Tongs <u>2 1/4</u>	Amount:
Waiting Time	Amount:
Hourly Work	Amount:
Transportation Charge <u>1 WAY 25</u> Miles @ <u>1.50</u> Per Mile	Amount:
<u>2 1/2 S/L PS FIVE POP OFF POT</u>	Amount:
Long Operator <u>Town</u>	Amount:
Helpers <u>Wichita Ant 441111</u> State & Local Taxes	Amount:

TOTAL SERVICE CHARGE

Remarks:

OWWO _____ NEW A

THILL PRINTING CO.

By Robert R. Thill

43	81	44	50	44	12	43	91	42	75										
43	71	44	15	42	26	43	72	42	52										
44	29	44	31	44	20	43	88	44	28										
43	98	43	75	44	06	44	35	43	90										
43	45	43	70	43	77	42	40	44	00										
38	08	44	25	43	68	42	23	43	63										
43	81	43	48	42	64	43	23	43	83										
43	80	43	68	44	03	44	07	43	14										
44	00	44	10	43	92	42	37	44	23										
836	62																		
873	32	THE ABOVE _____ JOINTS RECEIVED IN GOOD ORDER																	
872	96	BY _____																	
864	19																		
869	37																		
131	36																		
4447	88																		

51 44 20 81 25 44 12 43 91 42 75 44 15 42 26 43 72 42 52 44 29 44 31 44 20 43 88 44 28 43 98 43 75 44 06 44 35 43 90 43 45 43 70 43 77 42 40 44 00 38 08 44 25 43 68 42 23 43 63 43 81 43 48 42 64 43 23 43 83 43 80 43 68 44 03 44 07 43 14 44 00 44 10 43 92 42 37 44 23 836 62 873 32 872 96 864 19 869 37 131 36 4447 88

51 44 20 81 25 44 12 43 91 42 75 44 15 42 26 43 72 42 52 44 29 44 31 44 20 43 88 44 28 43 98 43 75 44 06 44 35 43 90 43 45 43 70 43 77 42 40 44 00 38 08 44 25 43 68 42 23 43 63 43 81 43 48 42 64 43 23 43 83 43 80 43 68 44 03 44 07 43 14 44 00 44 10 43 92 42 37 44 23 836 62 873 32 872 96 864 19 869 37 131 36 4447 88

51 44 20 81 25 44 12 43 91 42 75 44 15 42 26 43 72 42 52 44 29 44 31 44 20 43 88 44 28 43 98 43 75 44 06 44 35 43 90 43 45 43 70 43 77 42 40 44 00 38 08 44 25 43 68 42 23 43 63 43 81 43 48 42 64 43 23 43 83 43 80 43 68 44 03 44 07 43 14 44 00 44 10 43 92 42 37 44 23 836 62 873 32 872 96 864 19 869 37 131 36 4447 88



BAKER PERFORMANCE CHEMICALS

A Division of Baker Performance Chemicals, Inc.

A Baker Hughes company

Customer Report Form

Company: <u>GRAND MESA OPERATING</u>	Location: <u>NESS COUNTY</u>	Date: <u>12-23-94</u>
Well: <u>HUMPHREY #2</u>	By: <u>REN KNECHT</u>	Page <u>1</u> Of <u>1</u>
Attn: <u>MR. RON SINCLEAR</u>		
Copies: <u>MR. DON THOLICH</u>		
Reason For Call: <u>CHECK CRUDE OIL + WELL HEAD GRIND OUT</u>		

Findings: TANK # 46299

OIL GOING TO STOCK - .1 WATER
(HOT GRINDS) .3 B.S.
.4 B.S. + W. O/A

WELL HEAD GRIND OUT - 8% WATER
(100% SAMPLE) 2% LIGHT EMULSION
1.5% PARAFFIN
88.5% OIL

Recommendation:

I WOULD LIKE TO RECOMMEND THAT A EMULSION
BREAKER BE UTILIZED THROUGH THE WINTER MONTHS
ON THE HUMPHREY #2.

PLEASE CIRCULATE 1/2 GALLON OF EMULSION BREAKER TO
DISSOLVE THE LIGHT EMULSION + CIRCULATE 1 GALLON
OF CUDOX C-856, CORROSION INHIBITOR 2/MONTH.

THANK YOU.

Signed: [Signature]

G.M.O.C. DAILY DRILLING REPORTS

WELL NAME: Humphrey #2-18
 WELL LOCATION: SU/SE 18-175-24W
Yress City, KS
 FIELD NAME: Humphrey

2390 GL 2395 KB
 SPUD DATE: 10/27/94
 COMP. DATE: 11/1994
 TYPE OF WELL: Development

NAME: Bob Walters
 TELE # 265-6683 ATTN: Phyllis
 Fax: 265-8705

<u>CALLLED</u>	<u>FAXED</u>	<u>MAILED</u>
	<u>10/28</u>	<u>Corr. 11/9/94</u>
	<u>10/31</u>	
	<u>11/1</u>	
	<u>11/2</u>	
	<u>11/3 DST #1</u>	
	<u>11/4</u>	
	<u>FR 11/7</u>	

NAME: Fred James *Problems w/ fax*
 TELE # 267-7592 ATTN: w/ fax
 Fax 267-7592 - Start

<u>CALLLED</u>	<u>FAXED</u>	<u>MAILED</u>
	<u>10/28</u>	<u>Corr Mailed</u>
	<u>10/31</u>	
	<u>11/1</u>	
	<u>11/2</u>	
	<u>11/3</u>	
	<u>11/4 TUE</u>	
	<u>FR</u>	<u>✓</u>

NAME: Derry Larson
 TELE # 263-8030 ATTN:
 Fax 263-0880

<u>CALLLED</u>	<u>FAXED</u>	<u>MAILED</u>
	<u>10/28</u>	<u>Corr 11/9</u>
	<u>10/31</u>	
	<u>11/1</u>	
	<u>11/2</u>	
	<u>11/3 DST #1</u>	
	<u>11/4</u>	
	<u>FR 11/7</u>	

NAME: David Larson
 TELE # ATTN:

<u>CALLLED</u>	<u>FAXED</u>	<u>MAILED</u>

NAME: James Taylor
 TELE # 263-8030 ATTN: Tele
 Fax 291-3634

<u>CALLLED</u>	<u>FAXED</u>	<u>MAILED</u>
	<u>10/28</u>	
		<u>Corr 11/9/94</u>
	<u>11/2</u>	
	<u>11/3 DST #1</u>	
	<u>11/4</u>	
	<u>FR 11/7</u>	

NAME: Bob Nutra
 TELE # (4) ATTN:

<u>CALLLED</u>	<u>FAXED</u>	<u>MAILED</u>
	<u>10/28</u>	<u>Corr 11/4 9/94</u>
	<u>10/31</u>	
	<u>11/1</u>	
	<u>11/2</u>	
	<u>11/3 DST</u>	
	<u>11/4</u>	
	<u>FR 11/7</u>	

COMPANY REMARKS

Comp. Dt 12-1-94

101 JTS 5 1/2" CSG
14# set @ 4343

MIRU-SPUD 10-27-94

Comp 12-1-94

NO LOGS RAN

WRS COMPLETION REPORT

PI# 15-T-0007 02/23/95 SEC 18 TWP 17S RGE 24W PAGE 1

KANS NESS * 660FSL 1930FEL SEC E2 SW SE
STATE COUNTY FOOTAGE SPOT
GRAND MESA OPERATING D DO
OPERATOR WELL CLASS INIT FIN
2-18 HUMPHREY
WELL NO. LEASE NAME

2390GR DICKMAN
OPER ELEV FIELD/POOL/AREA
API 15-135-23840-0000

LEASE NO. 01/09/1995 ROTARY
SPUD DATE 10/27/1994 COMP. DATE TYPE TOOL HOLE TYPE STATUS
4400 MISS MALLARD J V/
PROJ. DEPTH PROJ. FORM CONTRACTOR
DTD 4343 FM/TD MISS
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

LOCATION DESCRIPTION

4 1/2 MI SE ARNOLD, KS

CASING/LINER DATA

RAN 5 1/2 CSG
CSGS NOT RPTD

INITIAL POTENTIAL

IPP 1UO
MISS
IP NOT RPTD
INT NOT RPTD

DRILLING PROGRESS DETAILS

GRAND MESA OPERATING
200 E FIRST ST STE 307
WICHITA, KS 67202
316-265-3000
LOC/1994/
10/17 DRLG BELOW 2745
11/01 4343 TD, WOCT
11/08 4343 TD, WILL NOT MICT UNTIL JAN 1995
11/22 (WOCT)
02/21 NO LOGS RPTD
TD REACHED 11/05/94, RIG REL 11/05/94
02/21 4343 TD
COMP 1/9/95, OIL WELL (TITE HOLE)

CONTINUED

COPYRIGHT 1994



Petroleum Information Corporation

PI-WRS-1
Form No. 1

CONFIRMING COMPLETION

CONFIRMED BY Brewer
Name Date
3-8-95

PI# 15-T-0007 02/23/95 SEC 18 TWP 17S RGE 24W
PAGE 2
15-135-23840-0000
GRAND MESA OPERATING D DO
2-18 HUMPHREY

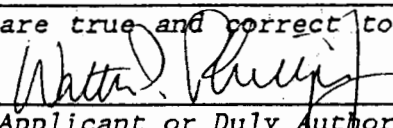
DRILLING PROGRESS DETAILS

PROD ZONE - MISSISSIPPIAN INT NOT RPTD
NO CORES OR DSTS RPTD

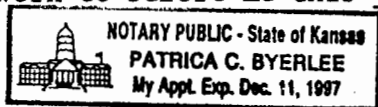
OFFSET OPERATORS, UNLEASED MINERAL OWNERS AND LANDOWNERS
(Attach additional sheets if necessary.)

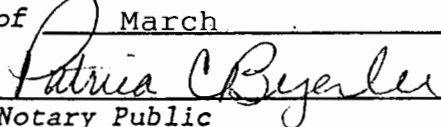
<u>Name</u>	<u>Legal Description of Leasehold</u>
Grand Mesa Operating Co.	Humphrey: SE/4 Sec. 18-17S-24W Dickman: NW/4 Sec. 17-17S-24W
Palomino Petroleum	Tilley: S/2 Sec. 7-17S-24W
John Mishler	

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.


Applicant or Duly Authorized Agent

Subscribed and sworn to before me this 8th day of March, 1995.




Notary Public

My Commission Expires: 12/11/95

INSTRUCTIONS FOR FORM U-8
Application to Amend Injection Order

1. All requested changes in injection authority must be submitted in this form.
2. Complete the top portion of the form with the information requested for the pilot well, as shown on the original order.
3. Complete the current operator information, listing the license number, current name and address, contact person and phone number.
4. Fill in the type of change or amendment desired. Leave blank any sections not applicable.
5. For amendments adding additional input wells to enhanced recovery orders, the following information must be submitted in addition to form U-8:
 - a) pages 1 and 2 of form U-1;
 - b) an updated map, showing the new well(s) and all existing wells;
 - c) a complete log of the well(s) to be added;
 - d) some type of verification of cement (cement tickets, bond log, etc.)
6. Attach Affidavit of Notice.
7. This form must be signed by the applicant or an authorized agent. A notarization of the signature is required.
8. All applicable fees must accompany this application.

Mud Anchor	15.26
Perf. Sub.	3.02
Seating Nipple	1.10
2 jts 2 7/8" tubing	63.72
Tubing Anchor	2.77
136 jts 2 7/8" tubing	<u>4254.17</u>
Subtotal	4340.04
Top Tubing to KB	3.00
Tubing Stretch	<u>.96</u>
Tubing Set at	4344.00 KB

One joint of tailpipe and two tubing subs were replaced with a mud anchor and one good joint of tubing. This lowered the pump position by approximately 15 feet in the well. Shut down at 7:00 P.M.

8/28/96

Ran 2" x 1 1/2" x 12' insert pump with 6' gas anchor. Ran 172 3/4" rods and 1 - 8 feet sub. Pump depth = 4334.62 ft. Hook up well and back on pump at 10:00 A.M.

Report on Acid Job
#2-18 Humphrey
Section 18-17S-24W
Ness County, Kansas
Well Data: Open Hole Completion
Casing set at 4343', TRD 4356'
Completion Date: 12/20/94

8/26/96 Move in, broke well down, pull rods and pump, release tubing anchor, pull tubing. Run in with packer, set at 4263.84 or 79.16 feet above open hole. Down for night at 4:00 P.M.

8/27/96 Ran in with swab, hit fluid at 2400 feet = static fluid level of 1940 feet above open hole. Swabbed hole clean. Started acid in at 8:30 A.M., put 700 gallons in tubing, let soak. Pump remaining 300 gallons acid at 8:55 A.M., followed by salt water flush. (Total load = 24 barrels acid and 30 barrels flush = 54 barrels) Started to pressure up at 6 barrels flush in or 30 barrels total in. Pump next 7 barrels at 1/2 BPM at 450#. Pump next 3 barrels at 1 BPM at 650 to 800# max. Pumped last 14 barrels at 1/2 BPM at 650# breaking down to 475# by end of job. Instantaneous shut-in pressure = 350#. Pressure bled down and on vacuum in five minutes at 10:00 A.M. Let acid soak until 11:50 A.M.

Run swab line, hit fluid at 1200 feet = 3140 feet fluid in hole.

Swabbed 27 BF first hour of spent acid water with oil cut.

Swabbed 25 BF second hour of spent acid water with an approximate 20% oil cut. Last two swabs were off bottom.

Swabbed 2 more runs as follows:

Next 15 minutes swabbed 3.6 barrels oil cut acid water (approx. 20% oil cut)

Next 15 minutes swabbed 3.0 barrels oil cut acid water (approx. 20% oil cut)

Total fluid swabbed = 55 barrels. Total Load = 54 barrels.

Pull tubing and packer out of hole, run tubing string back in, tag bottom at 4355 feet, set tubing as follows:

Humphrey #2-18
SW/SE Sec. 18-17S-24W
Ness County, Kansas
Page 3

01-20-95	16.24 BO	Barrel Test - 33% oil <u>67% water</u> 100%	16.4 BO 33.3 BW	49.7 Total BBls of Fluid
01-21-95	15.40 BO			
01-22-95	15.43 BO			
01-23-95	13.73 BO	Shot Fluid Level 81 jts down 25' x 81 jts 2,025 <u>4,350</u>		
			2,325' Fluid in hole	
01-24-95	16.22 BO			
01-25-95	15.39 BO	Changed length of stroke from 34" to 54" - SPM 8 1/2"		
01-26-95	27.43 BO			
01-27-95	24.11 BO	Barrel Test - 30% oil <u>70% water</u> 100%	23.34 BO <u>54.46 BW</u> 77.80 Total BBL Fluid	
01-28-95	21.62 BO			
01-29-95	21.61 BO			
01-30-95	24.51 BO			
01-31-95	25.48 BO			

=====FINAL REPORT=====

Humphrey #2-18
SW/SE Sec. 18-17S-24W
Ness County, Kansas
Page 2

12-27-94	29.22 BO	
12-28-94	25.00 BO	
12-29-94	23.31 BO; Circ. 3 hrs.	
12-30-94	26.65 BO; Barrel Test:	52% Oil 51.4% Total BBls Fluid
		<u>48% Water</u>
		100%
		=====
12-31-94	19.15 BO	
01-01-95	22.07 BO	
01-02-95	23.73 BO	
01-03-95	19.98 BO	
01-04-95	19.56 BO	
01-05-95	19.13 BO	
01-06-95	21.16 BO	
01-07-95	18.29 BO	
01-08-95	19.96 BO	
01-09-95	19.95 BO	
01-10-95	19.52 BO	
01-11-95	18.71 BO	
01-12-95	19.53 BO	
01-13-95	19.18 BO	
01-14-95	17.49 BO	Circ
01-15-95	18.00 BO	
01-16-95	17.91 BO	
01-17-95	17.49 BO	
01-18-95	17.49 BO	
01-19-95	13.32 BO	

**GRAND
MESA****OPERATING COMPANY**

(316) 265-3000
FAX: (316) 265-3455

307 FARMERS AND BANKERS BUILDING
200 EAST FIRST STREET
WICHITA, KANSAS 67202

WELL NAME: Humphrey #2-18
LOCATION: SW/SE Sec. 18-17S-24W
CNTY/STATE: Ness County, Kansas
SURFACE: 8 5/8" @ 290'
API: #15-135-23840

OPERATOR: Grand Mesa Operating Co.
CONTRACTOR: Mallard JV, Inc.
FIELD NAME: Dickman
GL: 2390' KB: 2396'

COMPLETION REPORT

11-23-94 MIRU; Swab down to 1600'; Drill 15' of cement on top of DV Tool; Drilled DV tool; Chased to btm; Swab dwn to 4200'; shut down for Thanksgiving

11-28-94 Drilled 65' of mud & cement on top of insert valve

11-29-94 Drilled shoe out; Have 13' of open hole; Bailed once w/75' increase in fluid; Mostly cement, mud. Shut down for night.

11-30-94 1650' fillup - all oil Swab down 36.7 BBL oil; 1/2 hour test 1.67 BBL oil Acidizing with 250 gallons of mud acid. Beginning to lay lead line this afternoon; Moving tubing & rods from #1-18 Humphrey well to this well will run in tomorrow.

12-01-94 Overnight fillup - 2550' all oil; 14 hrs.; Swab dwn 67 1/2 BBLS Oil; Swabed 1/2 hr. 5 BBLS Oil; Running tubing & rods

12-20-94 46 BO; 8 1/2 SPM 34" Stroke

12-21-94 44.60 BO; Barrel Test: 41.84 BO (80%)
10.46 BW (20%)
52.20 Total Bbls Fluid
=====

12-22-94 45.32 BO

12-23-94 36.58 BO; Barrel Test: 72% Oil
28% Water
100%
=====

12-24-94 32.00 BO

12-25-94 33.25 BO

12-26-94 30.31 BO

**GRAND
MESA****OPERATING COMPANY**

(316) 265-3000
FAX: (316) 265-3455

307 FARMERS AND BANKERS BUILDING
200 EAST FIRST STREET
WICHITA, KANSAS 67202

August 20, 1996

To: Owners

Re: Humphrey #2 - Acid Job
Section 18-17S-24W
Ness County, Kansas

We have recently acidized three wells in Ness County, Kansas. The following shows the oil production before and after the acid jobs and how long since the acid job:

	<u>Before Acid</u>	<u>As of 8/20/96</u>	<u>Time Since Acid Job</u>
#2 Stiawalt	69.5 BF/4.87 BO	192 BF/9.6 BO	6 months
#1 Elmore	79.4 BF/2.15 BO	120 BF/5 BO	3 weeks
#4 Schaben	64.0 BF/4.56 BO	120 BF/5.8 BO	3 weeks

The #2 Humphrey Well had initial production of 46 BO and 10 BW on 12/20/94. The well as initially acidized with 250 gallons of 15% acid. The length of the pump stroke was increased from 34 to 54 inches on 1/25/95. As of June 30, 1996, the well was making 49.3 BFPD/8.5 BO. The well is producing at approximately 103 feet above open hole.

It is our intention to acidize the #2 Humphrey with 1000 gallons of 15% Stimsol acid. We hope to increase the fluid level in the well, the total BFPD and consequently the oil production. This work is scheduled to be done on 8/26/96.

MORNING REPORT

Date 11-5 @ 6:30 A.M. Activity LAYING DOWN D.P. & D.C. BIT ON RANK 7:10 AM

@ 4356 Depth w/ 11415 Hrs. on Bit # 1 B.Wt. --- Str.Wt. ---

PP --- SFM --- ERFM --- Dev. --- GEOLOGIST NOT IT ft. Strap SAME

Mud: Vis. 52 Wt. 9.3 W. 6.6 Chl 9.00 Ph 10.5 LCA TRA #/bbl. Wall cake 2/32

CMCS --- CMCS --- Frac tank ✓ (n) ost circ. ✓ (n) @ ---

Water Delivery Daily 1 Loads --- Hrs. --- FOR MIXING 1ST STAGE CMT.

Water Delivery Total --- Loads --- Hrs. ---

Co. Time 20 1/2 Rig Time 1 Rotary Time 2 1/2

DST# 2 @ 4356 TO. Recovery, Hess Oil, otherwise tight hole ---

DST# --- @ --- TO. Recovered ---

Bit Trip or Term. @ --- w/ --- Hrs on Bit# --- Cond. ---

Fuel 28 M.O. 10 C.O. 18 G.L. 12 A'frz 11 Prop --- Alc --- TorQ 12 GAL

M.O. Added #1 --- #2 --- LP#1 --- LP#2 --- FM --- Latr --- Bridges ---

G.L. or C.O. Added Mud pump, swivel, table, chucks, ---

Antifreeze Added --- Air Cleaner (Wed) #1 --- #2 --- 1p ---

MISC.

Comments, Supplies/Parts used and/or needed, updated instructions, etc.

11-5 7:10AM REUPPERN 5' 1/2

8:30AM START CASING. RAN 101 ITS 5 1/2 X 14" 4360'

STAG J-11 NEW CASING w/ HALIBURTON EQUIP. DV HOLE (1733)

10:35AM CCH 3' TO BOTTOM. TAG BOTTOM @ 4356', PULLUP 10'

& LAND CASING @ 4343' CCH 30 MIN.

11:20AM HALIBURTON PUMPED 500 GAL CHEMICAL MUD SWEEP.

AND CMT w/ 100 SX EA-2, DISPLACED w/ 63 BBL WTR & 41 BBL MUD.

pld @ 12:05 PM.

12:20 PM OPEN DV HOLE. CMT w/ 310 SX HALIB. LIGHT CMT.

DISPLACED w/ 25 BBL WTR. CIRC 10 SX TO SURFACE.

pld @ 1:00 PM.

1:30 PM SET SLIPS IN BRADENHEAD & CUT OFF CASING.

11-6-94 MORT & MUD RACKS w/ RAINBOW TRUCKING.

MUD CREDIT to HAMPHRY:	335 GEL,	300 4 LIME	41 HALLS
	18 SODA ASH	3 PAC-R	1 DEFOAMER

Report To Grand Mesa Operating
 Attn _____
 Number _____

Well Name & Num. Humphrey #2-18
 County Ness
 API Num. 135-23840

MORNING REPORT

Date 11-4 @ 6:30 A.M. Activity Drilling Ahead
 @ 4310' Depth w/ 111 3/4 Hrs. on DTE @ 1 B.Wt. 40 Str. Wt. 100
 RP 1075 RPM 52 RPP 70 Lbs. 0 Fr. Strap 86 Strap Short
 Mud Visc. 51 at 9.3 & 6.4 @ 9000 @ 10.5 @ TR 1/bbl. Wall cake 3.32
 DMG's 95.20 DMG's 1867.80 Free tank y/b. Lost circ. y @ 0
 Water Delivery Daily _____ Loads _____ Hrs. _____
 Water Delivery Total _____ Loads _____ Hrs. _____
 Co Time 15 1/2 hrs Rig Time 1/2 Rotary Time 8
 DST @ 4270' @ _____ Reconditioned _____
 DST @ _____ @ _____ Reconditioned _____
 Bit Grip on Form @ _____ @ _____ on Form @ _____ Cond. _____
 Fuel 33 M.O. 9 M.O. 18 G. 12 1/2 Hr. 11 Prod. _____ Alc. _____ TorQ 12
 M.O. Added to OK @ 1 1/2 LPM OK Prod. _____ Lbs. _____ Briggs _____
 G.L. or C.O. Added trap pump, oiler, _____, _____, _____ OK
 Anti-Freeze Added OK 4 in. C. (depth) (4 in) 112 1p. _____

MISC.

Comments, Supplies/Parts used, other remarks, Location instructions, etc.

Report To Grand Mesa Operating
Attn _____
Number _____

Well Name & Num. Humphrey #2-18
County Nuss
API Num. 135-23840

MORNING REPORT

Date 11-3 @ 6:30 A.M. Activity Drilling Ahead

@ 4208' Depth w/ 103:50 Hrs. on Bit # 1 B.Wt. 40 Str. Wt. 95

PP 1050 SPM 51 BRPM 70 Dev. @ _____ Ft. Strap _____

Mud: Vis. 49 Wt. 9.3 WL 6.2 Chl 5000 Ph 10.0 LCM Tr+ #/bbl. Wall cake 3/32

DMCS 32.80 CMCS 1774.40 Free tank y (n) Lost circ. y (n) @ _____

Water Delivery Daily _____ Loads _____ Hrs. _____

Water Delivery Total _____ Loads _____ Hrs. _____

Co. Time _____ Rig Time 1 1/4 hr Rotary Time 22 3/4 hrs.

DST# _____ @ _____ TD. Recovered _____

DST# _____ @ _____ TD. Recovered _____

Bit Trip or Term. @ _____ w/ _____ Hrs on Bit # _____ Cond. _____

Fuel 40 M.O. 10 C.O. 18 G.L. 13 A'frz. 11 Prop. _____ Alc _____ TorQ 12

M.O. Added #1 1/2 #2 4 LP#1 1/2 LP#2 _____ PM _____ Lstr _____ Briggs _____

G.L. or C.O. Added Mud pump, swivel, table, dunks, _____

Antifreeze Added _____ Air Cleaner (Wcd) #1 _____ #2 _____ 1p. _____

MISC.

Comments, Supplies/Parts used and/or needed, updated instructions, etc.

Report To Grand Mesa Operating
Attn _____
Number _____

Well Name & Num. Thompson #2-18
County Miss
API Num. 135-43840

MORNING REPORT

Date 11-3 @ 6:30 A.M. Activity: Drilling Ahead
@ 4208' Depth w/ 103:50 Hrs. on Bit A. 1 B.Wt. 40 Ser. Wt. 95
RP 1050 RPM 51 BPPM 70 Thr. 10 P. 10 M. Stop
Mud: Vis. 49 WL 9.3 IL 6.2 Chl 5000 PH 10.0 TSP+ 1/50 L. 300 coker 2/32
DMCS 32.80 DMCS 1774.40 (no) sand, y 0 (no) chd. y 0 @
Water Delivery Daily 1 Loads 1 Hrs.
Water Delivery Total 1 Loads 1 Hrs.
Co. Time 1 1/4 Hrs. Total Time 22 3/4 Hrs.
DST# 0 @ 0 Recovered 0
DST# 0 @ 0 Recovered 0
Bit Trip on Form @ 0 Hrs. (Hrs. on Bit) 0 Cord
Fuel 40 M.O. 10 C.O. 18 O.L. 12 Air for 11 Prep 0 Air 0 TonQ 12
M.O. Added to 1/2 B2 4 LFM 1/2 LP42 0 P4 0 Lacer 0 Briggs 0
G.L. on C.O. Added Mud pump 0 Lacer 0 Briggs 0
Antifreeze Added 0 Air Cleaner (Mud) 0 B2 0 Tip 0

MISC.

Comments, Supplies/Parts used and/or required, additional instructions, etc.

Report To Grand Mesa Operating
Attn. _____
Number _____

Well Name & Num. Humphrey #2-18
County Ness
API Num. 135-23840

MORNING REPORT

Date 11-1 @ 6:30 A.M. Activity Drilling Ahead
@ 3317 Depth w/ 59:50 Hrs. on Bit # 1 B.Wt. 35 Str. Wt. 85
PP 1000 SPM 56 BRPM 70 Dev. 7 1/2 @ 3043 Ft. Strap _____
Mud: Vls. _____ Wt 9.8 Wt. _____ Chl _____ Ph _____ LCM _____ #/bbl. Wall cake _____
DMC\$ 327.30 CMC\$ 1383.20 Frac tank 0/n. Lost circ. 0/n @ _____
Water Delivery Daily _____ Loads _____ Hrs. _____
Water Delivery Total _____ Loads _____ Hrs. _____
Co. Time _____ Rig Time 3:06 Rotary Time 20:54
DST# _____ @ _____ TD: Recovered _____
DST# _____ @ _____ TD: Recovered _____
Bit Trip or Term. @ _____ w/ _____ Hrs on Bit# _____ Cond. _____
Fuel 54 M.O. 12 C.O. 20 G.L. 12 A'frz. 12 Prop _____ Alc _____ TorQ 22
M.O. Added #1 _____ #2 3 LP#1 _____ LP#2 _____ PM _____ Lstr _____ Briggs _____
G.L. or C.O. Added Mud pump, swivel, table, dunks. _____
Antifreeze Added 2 gal. premix Air Cleaner (Wed) #1 _____ #2 _____ lp _____
MISC.
Comments, Supplies/Parts used and/or needed, updated instructions, etc.

(Information not available for morning report on 10-28-94)

Run 8 jts. 8-5/8" x 20' x 347.5' Surface pipe set
@ 354.18' with landing joints. Cemented w/ 200 sx 60/40
paz mix, 2% gel, 3% cc. Cement did circulate. Plug down
@ 10:15 p.m. 10-28-94 by Allied

Report To Grand Mesa Operating
Attn: _____
Number _____

Well Name & Num. Humphrey #2-18
County WESP
API Num. 135-23840

MORNING REPORT

Date 10-31 @ 6:30 A.M. Activity Drilling Ahead
@ 2745' Depth w/ 39.06 Hrs. on Bit # 1 B.Wt. 35 Str. Wt. 85
RP 1000 SPM 56 BRPM 70 Dev. 3/4" @ 2010 ft. Strap _____
Mud: Vis. _____ Wt 9.8 Wt. _____ Chl _____ Ph _____ LCM _____ #/bbl. Wall cake _____
DMCS 938.90 CMCS 1055.90 Free tank y/n Lost circ. y/n @ _____
Water Delivery Daily _____ Loads _____ Hrs. _____
Water Delivery Total _____ Loads _____ Hrs. _____
Co. Time _____ Rig Time 4:24 Rotary Time 19:36
DST# _____ @ _____ TD. Recovered _____
DST# _____ @ _____ TD. Recovered _____
Bit Trip or Term. @ _____ w/ _____ Hrs on Bit# _____ Cond. _____
Fuel 61 M.O. 13 C.O. 21 G.L. 12 Afrz 12 Prop _____ Alc _____ TorQ 22
M.O. Added #1 _____ #2 2 LP#1 6 LP#2 _____ PM _____ Lstr _____ Briggs _____
G.L. or C.O. Added Mud pump, swivel, table, dunks. 0
Antifreeze Added 0 Air Cleaner (Wed) #1 OK #2 _____ lp _____

MISC.

Comments, Supplies/Parts used and/or needed, updated instructions, etc.

1 hr Rig Time on Deviation

MORNING REPORT

Date 10-30 @ 6:30 A.M. Activity Drilling Ahead

@ 1947 Depth w/ 19:30 Hrs. on Bit # B.Wt. 35 Str.Wt. 68

PP 950 SPM 54 BRPM 70 Dev. @ ft. Strap

Mud: Vis. 26 Wt. 9.2 WL Chl Ph LCM #/bbl. Wall cake

DMCS CMCS 117 Frac tank y/n. Lost circ. y/h @

Water Delivery Daily Loads Hrs.

Water Delivery Total Loads Hrs.

Co. Time Rig Time 11:24 Rotary Time 12:36

DST# @ TD. Recovery Hess Oil otherwise tight hole

DST# @ TD. Recovered

Bit Trip on Term. @ w/ Hrs on Bit# Cond.

Fuel 68 M.O. 14 C.O. 23 G.L. 12 A' frz. 58 Prop Alc TorQ 25

M.O. Added #1 1/2 #2 1/2 LP#1 LP#2 PM Lstr Briggs

G.L. or C.O. Added Mud pump, swivel, table, dwrks. 10

Antifreeze Added PRMx 1/2 Air Cleaner (Wed) #1 15 #2 OK lp OK

MISC.

Comments, Supplies/Parts used and/or needed, updated instructions, etc.

J-BOOTS

1656 - 1686 ANHY.

YESTERDAY STOPPED DRILLING 12:15 pm. COHIS MIN DROPPED S.S.

STARTED DRILLING 9:32 pm.

MORNING REPORT

Date 10-29 @ 6:30 A.M. Activity DRILLING AHEAD

@ 1009 Depth w/ 6:54 Hrs. on Bit # 1 B.Wt. 25 Str. Wt. 55000

PP 900 SPM 56 BRPM 70 Dev. 1 @ 1009 ft. Strap

Mud: Vis. N/C Wt. WL Chl Ph LCM #/bbl. Wall cake

DMCS NONE CMCS 117 Frac. tank y/n (X) Lost circ. y/n (X)

Water Delivery Daily Loads Hrs.

Water Delivery Total Loads Hrs.

Co. Time 08:15 ^{WOC} Rlg Time 9:06 Rotary Time 6:54

DST# @ TD. Recovery Hess Oil otherwise tight hole

DST# @ TD. Recovered

Bit Trip or Term. @ w/ Hrs on Bit# Cond.

Fuel 74 M.O. 14 C.O. 24 G.L. 12 A'frz Prop Alc Torq 30

M.O. Added #1 1/2 #2 CH LP#1 0 LP#2 PM Lstr Briggs

G.L. or C.O. Added Mud pump, swivel, table, dwks 2642 | 1 GAL TORQ FLUID.

Antifreeze Added Air Cleaner (Wed) #1 #2 lp

MISC.

Comments, Supplies/Parts used and/or needed, updated instructions, etc.

CNT IN PIPE 20'

DRILLER PLUG C 6:15 - 6:30.

call before 9: About 8:30 Sunday

Report To Grand Mesa Operating
 Attn: _____
 Number (316) 265-3455

Well Name & Num. Numphrey #2-18
 County Ness
 API Num. 135-23840

MORNING REPORT

Date 6-28 @ 8:00 A.M. Activity Run Surface Pipe
 @ 354' Depth w/ 5:06 Hrs. on Bit # A B.Wt. _____ Str. Wt. _____
 RP _____ SPM _____ BRPM _____ Dev. _____ @ _____ Ft. Strap _____
 Mud: Vis. _____ Wt. _____ Wl. _____ Chl _____ Ph _____ LCM _____ #/bbl. Wall cake _____
 DMC\$ _____ CMC\$ _____ Free tank y/n. Lost circ. y/n @ _____
 Water Delivery Daily _____ Loads _____ Hrs. _____
 Water Delivery Total _____ Loads _____ Hrs. _____
 Co. Time _____ Rig Time _____ Rotary Time _____
 DST# _____ @ _____ TD. Recovered _____
 DST# _____ @ _____ TD. Recovered _____
 Bit Trip or Term. @ _____ W/ _____ Hrs on Bit# _____ Cond. _____
 Fuel _____ M.O. _____ C.O. _____ G.L. _____ A'frz. _____ Prop _____ Alc _____ TorQ _____
 M.O. Added #1 _____ #2 _____ LP#1 _____ LP#2 _____ PM _____ Lstr _____ Briggs _____
 G.L. or C.O. Added Mud pump, swivel, table, dunks. _____
 Antifreeze Added _____ Air Cleaner (Wcd) #1 _____ #2 _____ lp. _____

MISC.

Comments, Supplies/Parts used and/or needed, updated instructions, etc.

10-27-94 Moved in Rotary Tool. Raised derrick at 12:10 p.m.

Spud 12- $\frac{1}{4}$ " @ 4:30 p.m.

10-28-94 T.D. 354' @ 12:50 a.m. CCH - 30 minutes

Drop deviation tool. T.O.H @ 1:20 a.m. 1:20 - 4:00 a.m. had

To ream to 60'. Ran 8- $\frac{5}{8}$ " to 88'. 4:00 a.m. - 8:00 a.m.

Ran Deviation survey every 60' @ per Jim Reilly's orders.

At 60' - $1\frac{1}{4}$ °, 120' - 1°, 180' - $\frac{7}{8}$ °, 240' - $\frac{1}{2}$ ° and

312' - $\frac{1}{2}$ °. Orders to Run pipe. Will run Deviation

Survey @ 500' + 1000' and maybe 2000' and 3000'

MALLARD JV, INC.

DRILLING CONTRACTORS

P. O. Box 1009

McPHERSON, KS 67460

DRILLER'S LOG

OPERATOR: **Grand Mesa Operating Company**
200 E. First St., Suite #307
Wichita, KS 67202

WELL: **Humphrey #2-18**

API #: 15-135-23,840

COMMENCED: October 27, 1994

LOCATION: 50' E. of C SW SE
660' FSL, 1930' FEL
Section 18, Township 17 S, Range 24 W
Ness County, KS

COMPLETED: November 5, 1994

TOTAL DEPTH: 4356'

ELEVATION: 2390' GL, 2395' KB

STATUS: Set Casing – Mississippian Formation

SPUD: 4:30 pm 10/27/94

SIZE HOLE DRILLED: 12-1/4" x 354'

SURFACE CASING SIZE: 8-5/8" x 20# x 347.58' (8 jts.)

SET AT: 354.18'

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

SIZE HOLE DRILLED: 7-7/8" x 4356'

PRODUCTION CASING: 5-1/2" x 14# x 4360' (101 jts.)

SET AT: 4343'

DV TOOL AT: 1733'

CEMENT BOTTOM STAGE: 100 sacks EA-2

CEMENT 2ND STAGE: 310 sacks Halliburton Lite

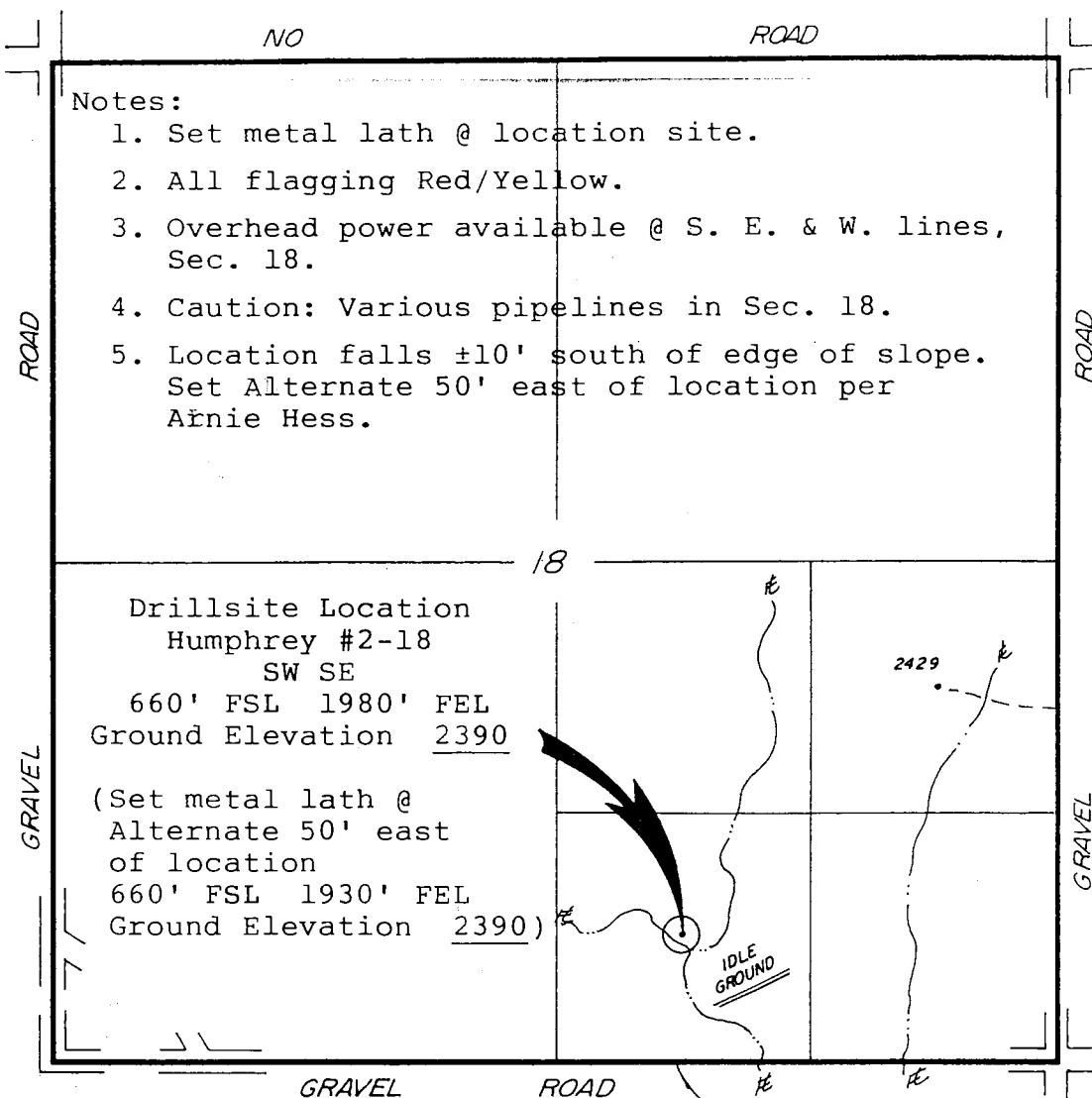
PD: 1:00 pm 11/5/94

DRILL STEM TESTS: 2

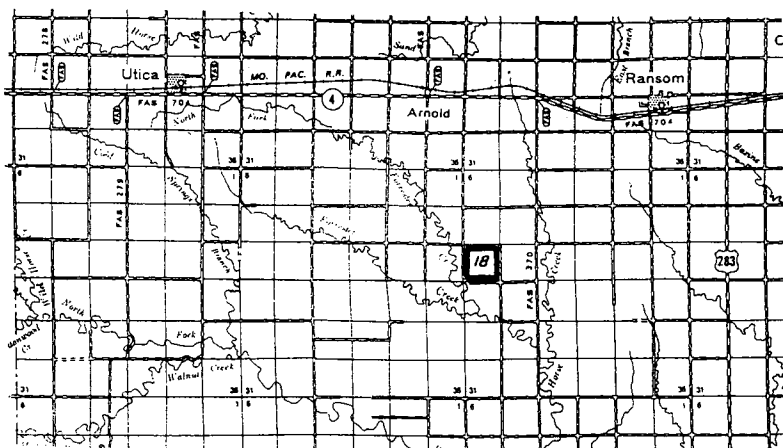
ELECTRIC LOG: No

RESERVE PIT: 40,000 ppm chlorides, 260 bbl. free fluid content

GRAND MESA OPERATING CO.
HUMPHREY LEASE
SE ¼, SECTION 18, T17S, R24W
NESS COUNTY, KANSAS



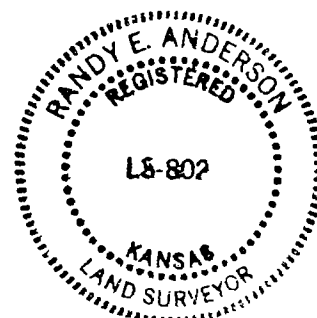
SCALE 1" = 1000'



* Controlling data is based upon the best maps and photographs available to us and upon a regular section of land containing 640 acres.

* Approximate section lines were determined using the normal standard of care of oilfield surveyors practicing in the state of Kansas. The section corners, which establish the precise section lines, were not necessarily located.

* Elevations derived from National Geodetic Vertical Datum.



Randy E. Anderson

Randy E. Anderson, R.L.S. 802

Date October 11, 1994



AUG 30 1995

Kansas Corporation Commission

Bill Graves, Governor Susan M. Seltsam, Chair F.S. Jack Alexander, Commissioner Timothy E. McKee, Commissioner
Judith McConnell, Executive Director

08/29/95

GRAND MESA OPG CO
307 FARMERS & BANKERS BLDG. 200 E. 1ST.
WICHITA, KS 67202

Re: Closure of Drilling Pits
HUMPHREY 2-18
660' FSL - 1930' FEL 18-17-24W
County - NS
API # - 15135238400000

Dear Sirs:

The above referenced well was spudded on 10/27/94. According to K.A.R. 82-3-602, "Drilling pits shall be abandoned and closed within a maximum of 365 calendar days after the spud date of a well". The subject drilling pits must be closed by 10/27/95. Enclosed is a surface pond closure form, CDP-4. Please fill out the form and return it within 30 days after the drilling pits are closed.

Should an extension be warranted, it must be received by 10/27/95. TO FILE FOR AN EXTENSION PLEASE SEND A COPY OF THIS LETTER WITH THE FOLLOWING INFORMATION COMPLETED:

Date of location inspection by operator/agent:

Reason for extension: _____

Estimated period of time until pit closure: _____

Failure to timely close the pit, file a request for an extension or file the closure form within the allotted time periods may result in assessment of an administrative penalty. FAILURE TO RESPOND TO THIS WRITTEN NOTICE WILL RESULT IN AN INSPECTION OF THE LEASE BY DISTRICT STAFF TO VERIFY COMPLIANCE / NON-COMPLIANCE WITH THE CLOSURE REQUIREMENT. THE EXPENSE INCURRED, INCLUDING MILEAGE AND STAFF TIME, WILL BE CHARGED TO THE OPERATOR.

Your cooperation in this process is appreciated. If you have any questions or concerns, please call me at (316) 337-6200.

Sincerely,

Jonelle Rains, Supervisor
Department of Environmental Protection and Remediation

#2 Humphrey Dump Job

9/27/00

Pressured up pump, stopped unit.

At wellhead, pumped 750 Gal of 15% Fe Acid (18 bbls) down casing, starting at 4:25 PM.

Followed with 53 bbls of lease water to load hole. With hole loaded recorded no pressure while pumping. Pumped an additional 18 bbls lease water to ensure displacement of acid.

Total Load of 90 bbls, @ 5:15 PM.

Broke off line - well on vacuum.

Let sit until 7:10 PM started pumping unit back up.

Before: 6.44 Bo DD

112.10 BWPD

118.54 Total Fluid

MALLARD

October 14, 1994

Mallard Drilling
P.O. Box 1009
McPherson, KS 67460

Attn: Don Richenberger

RE: Grand Mesa Operating Company
Mud Properties for Ness Co. Wells:
#5-20 Stiawalt
#2-18 Humphrey

Displace mud at approximately 3500'.

Interval 3600 to 4200':

Mud for samples VIS: 36 - 40 sec/qt
 FLUID LOSS: 15 - 20 cc
 WEIGHT: 9.2 - 9.4
 LCM: As needed

Interval 4200 to TD:

Mud ready to test VIS: 45 - 48 sec/qt
 FLUID LOSS: 10 - 12 cc
 WEIGHT: 9.0 - 9.2 #/gal
 LCM: As needed

Don,

I pretty much went by the mud program on our last well in this area. If you have any questions or suggestions, please let me know.

Very truly yours,

GRAND MESA OPERATING COMPANY

Larry Friend

LF:pa

Enclosures

☒ New Application
Reauthorization
(Permit No. _____)

KANSAS CORPORATION COMMISSION
CONSERVATION DIVISION
202 West First
200 Colorado Derby Building
Wichita, Kansas 67202-1286

12/91

APPLICATION FOR SURFACE POND

FORM MUST BE TYPED

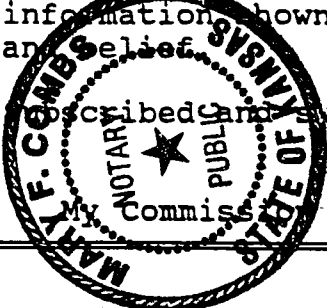
Submit in Duplicate

Operator Name GRAND MESA OPERATING COMPANY		License No. 9855	
Operator Address 200 East First Street, Suite 307, Wichita, KS 67202			
Contact Person Ronald N. Sinclair		Phone No. 816) 265-3000	
Lease Name HUMPHREY	Pit is ☒ Proposed ☐ Existing If existing, date constructed _____	Pit Location SE Qtr. Sec. 18 Twp. 17S Rge. 24 E/W 660 Ft from N/S (circle one) Line of Sec 1930 Ft from E/W (circle one) Line of Sec Ness _____ County	
Type of Pond: ☐ Burn Pit ☐ Emergency Pit ☐ Treatment Pit ☐ Workover Pit ☒ Drilling Pit (* Supply API No. or year drilled)	Pit capacity 4250 (bbls)		
Is the pit located in a Sensitive Ground Water Area? ☐ Yes ☒ No		Chloride concentration: Unknown mg/l (For Emergency Pits and Treatment Pits only)	
Is Pit bottom below ground level? ☒ Yes ☐ No	Artificial liner? ☐ Yes ☒ No	How is pit lined if a plastic liner is not used? Drilling Mud	
Pit dimensions (all but working pits): 100 Length (ft) 100 Width (ft) Depth from ground level to deepest point 3 (ft)			
If the pit is lined give a brief description of the liner material, thickness and installation procedure. _____ _____ _____		Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring. _____ _____ _____	
Distance to nearest water well within one-mile of pit None ft. Depth of water well _____ ft.		Depth to shallowest fresh water Unknown feet. Source of information: _____ measured _____ well owner _____ electric log _____ other	
EMERGENCY, TREATMENT AND BURN PITS ONLY: Producing Formation: _____ Number of producing wells on lease: _____ Barrels of fluid produced daily: _____ Does the slope from the tank battery allow all spilled fluids to flow into the pond? ☐ Yes ☐ No		DRILLING AND WORKOVER PITS ONLY: Type of material utilized in drilling/workover Drilling Mud Number of working pits to be utilized 3 or 4 Abandonment procedure: Dry & burial with soil Drill pits must be closed within 365 days of spud date.	
I hereby certify that the above statements are true and correct to the best of my knowledge and belief. October 14, 1994 Date By: <u>Ronald N. Sinclair</u> Signature of Applicant or Agent Ronald N. Sinclair			
KCC OFFICE USE ONLY			
Date Rec'd _____ Permit No. _____ Permit Date _____ Lease Inspection ☐ Yes ☐ No			

KANSAS CORPORATION COMMISSION
CONSERVATION DIVISION
130 S. Market - Room 2078
Wichita State Office Building
Wichita, Kansas 67202

CLOSURE OF SURFACE POND

Operator Name GRAND MESA OPERATING COMPANY		License No. 9855	
Operator Address 200 E. FIRST ST., STE 307		WICHITA, KS 67202	
Contact Person RONALD N. SINCLAIR		Phone Number (316) 265-3000	
Permit Number (API# if applicable) 15-135-238400000		Lease Name HUMPHREY #2-18	
Type of Pond:		Pit Location	
☐ Emergency Pit ☐ Burn Pit		Sec <u>18</u> Twp <u>17</u> S Rng <u>24</u> E/W	
☐ Treatment Pit ☒ Drilling Pit		<u>660</u> Ft from N/(S) Line of Sec. (circle one)	
☐ Workover Pit		<u>1930</u> Ft from (E)W Line of Sec.	
		Ness County	
Date of closure: <u>8/19/95</u>			
Was an artificial liner used? ☐ Yes ☒ No.			
If no, how were the sides and bottom sealed to prevent downward migration of the pit contents? <u>Native Mud</u>			
Abandonment procedure of pond: <u>Dried & Buried</u>			
The undersigned hereby certifies that he/she is <u>Ronald N. Sinclair, President</u> for <u>Grand Mesa Operating Company</u> (Co.), a duly authorized agent, that all information shown hereon is true and correct to the best of his knowledge and belief.			
Subscribed and sworn to before me on this <u>7th</u> day of <u>September</u> , 19 <u>95</u>			
<u>Mary F. Combs</u> Notary Public			
My Commission expires <u>August 25, 1996</u> MARY F. COMBS			



Humphrey Acid Job



913-798-3995

Box 346, NESS CITY, KANSAS 67560

PIPE TALLY

Sheet _____ of _____ Sheets

Customer Name _____ Date 8-24-96

Lease & Well No. _____

Size Pipe _____

Description _____

PIECES	FEET	INCHES	PIECES	INCHES	FEET	INCHES	FEET	INCHES	FEET	INCHES	FEET	INCHES
1	31	84	31	84	31	86	31	84	31	84	31	92
2	31	84	31	84	30	86	31	85	31	80	31	94
3	31	84	31	84	31	85	31	80	31	80	31	86
4	31	88	30	86	31	83	31	85	31	84	31	85
5	31	85	30	84	31	84	30	85	30	80	30	80
6	31	73	30	82	31	83	29	82	31	76	21	86
7	31	87	31	82	30	70	29	72	31	84	28	80
8	31	84	30	85	31	88	29	66	30	60	30	85
9	31	70	30	66	31	84	31	16	30	25	31	93
10	31	83	30	94	30	10	31	85	31	83	31	81
11	32	-	31	66	31	68	31	93	31	82	31	16
12	31	76	31	17	31	08	30	71	30	10	30	25
13	31	85	31	84	31	81	31	82	31	14	37	85
14	31	90	31	83	31	80	30	56	31	80	30	80
15	31	57	31	75	31	50	31	80	30	17	40	12
16	31	82	30	38	31	97	31	80	30	60	30	15
17	31	86	31	85	30	33	31	80	31	90	30	02
18	31	86	31	27	31	80	30	92	31	05	30	10
19	30	66	31	85	31	-	30	90	31	60	30	77
20	30	90	30	80	30	20	30	-	31	88	30	00
21	31	84	31	45	31	80	31	80	31	88		
22	31	86	32	77	29	98	31	-	31	85		
23	31	30	31	85	31	88	31	85	30	-		
24	28	33	31	16	30	77	31	86	31	53		
25	31	86	30	70	31	35	31	83	31	30		

COLUMN TOTAL	787	42
COLUMN TOTAL	782	31
COLUMN TOTAL	782	64
COLUMN TOTAL	780	38
COLUMN TOTAL	782	01
COLUMN TOTAL	428	28
GRAND TOTAL	428	00

Tallied By _____
 Car or Truck No. _____ Total No. of Joints _____
 Received By _____

Report on Acid Job
#2-18 Humphrey
Section 18-17S-24W
Ness County, Kansas

Well Data: Open Hole Mississippian Completion
Casing set at 4343', RTD 4356'
Completion Date: 12/20/94

8/26/96 Move in, broke well down, pull rods and pump,
release tubing anchor, pull tubing. Run in with
packer, set at 4263.84 or 79.16 feet above open
hole. Down for night at 4:00 P.M.

8/27/96 Ran in with swab, hit fluid at 2400 feet = static
fluid level of 1940 feet above open hole. Swabbed
hole clean. Started acid in at 8:30 A.M., put 700
gallons in tubing, let soak. Pump remaining 300
gallons acid at 8:55 A.M., followed by salt water
flush. (Total load = 24 barrels acid and 30 barrels
flush = 54 barrels) Started to pressure up at 6
barrels flush in or 30 barrels total in. Pump next
7 barrels at 1/2 BPM at 450#. Pump next 3 barrels
at 1 BPM at 650 to 800# max. Pumped last 14 barrels
at 1/2 BPM at 650# breaking down to 475# by end of
job. Instantaneous shut-in pressure = 350#.
Pressure bled down and on vacuum in five minutes at
10:00 A.M. Let acid soak until 11:50 A.M.

Run swab line, hit fluid at 1200 feet = 3140 feet
fluid in hole.

Swabbed 27 BF first hour of spent acid water
with oil cut.

Swabbed 25 BF second hour of spent acid water
with an approximate 20% oil cut. Last two
swabs were off bottom.

Swabbed 2 more runs as follows:

Next 15 minutes swabbed 3.6 barrels oil
cut acid water (approx. 20% oil cut)

Next 15 minutes swabbed 3.0 barrels oil
cut acid water (approx. 20% oil cut)

Total fluid swabbed = 55 barrels. Total
Load = 54 barrels.

Pull tubing and packer out of hole, run tubing
string back in, tag bottom at 4355 feet, set tubing
as follows:

Mud Anchor	15.26
Perf. Sub.	3.02
Seating Nipple	1.10
2 jts 2 7/8" tubing	63.72
Tubing Anchor	2.77
136 jts 2 7/8" tubing	<u>4254.17</u>
Subtotal	4340.04
Top Tubing to KB	3.00
Tubing Stretch	<u>.96</u>
Tubing Set at	4344.00 KB

One joint of tailpipe and two tubing subs were replaced with a mud anchor and one good joint of tubing. This lowered the pump position by approximately 15 feet in the well. Shut down at 7:00 P.M.

8/28/96

Ran 2" x 1 1/2" x 12' insert pump with 6' gas anchor. Ran 172 3/4" rods and 1 - 8' sub. Pump depth = 4334.62 ft. Hook up well and back on pump at 10:00 A.M.

Phone 313-483-2627, Russell, KS
Phone 316-793-5861, Great Bend, KS

Phone 913-625-5516, Hays, KS
Phone 913-672-3471, Oakley, KS

Phone 316-886-5926, Medicine Lodge, KS
Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC. 0006643

Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	10-27-94	Sec.	18	Twp.	17	Range	24	Called Out	7:30 P.M.	On Location	9:30 P.M.	Job Start	9:50 A.M.	Finish	10:15 P.M.
Lease	Humphrey	Well No.	2-18	Location				Ness 5W-8N-14W				County	Ness	State	KS.
Contractor								Owner							
Type Job								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.							
Hole Size				T.D.											
Csg.				Depth											
Tbg. Size				Depth											
Drill Pipe				Depth											
Tool				Depth											
Cement Left in Csg.				Landing Shoe Joint											
Press Max.				Minimum											
Meas Line				Displace											
Perf.															

EQUIPMENT

No.	Cementor	
Pumptrk 224	Helper	Mike
No.	Cementor	
Pumptrk	Helper	
	Driver	Bill
Bulktrk 116	Driver	

DEPTH of Job	354'
Reference:	Pump - 1st Chg
	Pump - 1st Mileage
	TWP
	Sub Total
	Tax
	Total

Remarks: Ran 8 1/2" 20' new. Broke isolation with rig. Mixed 200 SKs 60/4 223 replaced with 22.0 BBI fresh water. ment did circulate. Thank You Allied Cementing Mike, Bill

Charge To	Granet Messer
Street	
City	State
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	Long T. J. J. J.
CEMENT	
Amount Ordered	200 60/40 223
Consisting of	
Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	
	Sales Tax
Handling	
Mileage	
	Sub Total
	Total
Floating Equipment	



HALLIBURTON

HALLIBURTON ENERGY SERVICES

COPY

TICKET

No. 599495 - []

PAGE 1 OF 2

FORM 1906 R-13

SERVICE LOCATIONS

1. 14013 K 25525

2. 14013 K 25525

3. 14013 K 25525

4. 14013 K 25525

WELL/PROJECT NO.

2-18

TICKET TYPE

SALES

WELL TYPE

01

INVOICE INSTRUCTIONS

25525

25525

25525

25525

25525

25525

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CHARGE TO:

Grandmas Operating

Address

200 E First Street

City, State, Zip Code

Wichita, KS 67201

County/Parish

Lease

Contractor

25525

State

City/Offshore Location

DATE

11-5-94

Owner

Samie

Order No.

11-5-94

Well Location

18-173-200

Well Permit No.

25525

Shipped Via

507

Delivered To

Lac Nulbis Co. TX

Job Purpose

035

Well Category

01

Job Instructions

25525

25525

25525

25525

25525

25525

25525

25525

25525

25525

Sub Surface Safety Valve Was:

TYPE LOCK

BEAN SIZE

SPACERS

CASING PRESSURE

WELL DEPTH

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Customer hereby acknowledges

and agrees to the terms and conditions on the

reverse side herof which include, but are not limited

to PAYMENT, RELEASE, INDEMNITY, and

LIMITED WARRANTY provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE

DATE SIGNED

11-5-94

TIME SIGNED

0738

AM

PM

Not offered

Customer hereby acknowledges receipt of the materials and services listed on this ticket.

Customer's Agent (Please Print)

Customer's Agent Signature

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HALLIBURTON

51252-26103
0818

TICKET CONTINUATION

DUNCAN COPY

TICKET No. 599495

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

CUSTOMER

Grand Mesa Operating

WELL

Humphrey 2-18

DATE

11-5-94

PAGE

2

OF

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING LOC ACCT DPT	DESCRIPTION	QTY	UNIT	QTY	UNIT	UNIT PRICE	AMOUNT
-----------------	---------------------------------	-------------------------	-------------	-----	------	-----	------	------------	--------

504-316		1	B Halliburton Light Cement	3105k				7.37	2284.2
---------	--	---	----------------------------	-------	--	--	--	------	--------

507-210		1	B Flocele Blended	7816s				1.65	1287
---------	--	---	-------------------	-------	--	--	--	------	------

504-308		1	B Standard Cement	1005k				7.82	7821
---------	--	---	-------------------	-------	--	--	--	------	------

508-127		1	B Cel Seal Blended	55k				25.90	1295
---------	--	---	--------------------	-----	--	--	--	-------	------

509-968		1	B Salt Blended	65016s				15	975
---------	--	---	----------------	--------	--	--	--	----	-----

507-775		1	B Helad-322	4716s				7.06	3291
---------	--	---	-------------	-------	--	--	--	------	------

502-970		1	B O-Air	2516s				3.25	812
---------	--	---	---------	-------	--	--	--	------	-----

310 Surface

100 kony

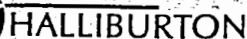
SERVICE CHARGE

CUBIC FEET

500-207		1						1.35	581.8
500-306		1	B					25	25

B 232692

CONTINUATION TOTAL



LOG FORM 2013 R-4

DATE _____

DATE
11-5-94

PAGE NO

I

nd Mesa nPar

WELL NO.

2-18

LEASE

Humphrey

JOB TYPE

2 Stage Long string

TICKET NO

599495

TIME	RATE (BPM)	VOLUME (BBL)	PUMPS	PRESSURE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
0100					Called out to cm + 2 stage long string w/ 100 SKS 3rd 50 col seal 15th set + 9th 322 1/4" D. Air (Bottom stage) 310 SKS HLC 1/4" floccul/gk (top stage) 2 cent. 1 basket 1 D.V. insert + float shoe, 50 gal mud flush on loc, Laying down DP, set up + equipment Drill Pipe Layed down, Rig up to casing 5th 6th casing w/ insert float shoe plug stop on top of shoe jt. cent 1st 3rd 3rd 4th 5th 6th + 61st 5th DV Between 61 + 62 Jt. 61st DV ② 1713' Basket Bottom 61st Jt casing + TD 4356' Drop ball Hook up + cir hole + Knock out Auto fill + Uho. St 50 gal mud flush w/ pump + 18 ST 100 SKS EA-2 100 cm mixed, wash pump + line 0 Rel plug + 57. Displ 250 Log plug @ 4333' KB 0 Rel (pass OK) from hole Drop Free Fall plug 850 Open DV pump 15 bbl mud off 100 ST mix cm + 310 SKS cm mixed pump 1/2 HLL water Rel plug + 57. Displ Log plug @ 1713' KB. cir 10 SKS TD pit Rel pass OK. Plug Root Hole Wash + React up 7th Job complete Shank Lan

CUSTOMER

WELL PROGNOSIS

GRAND MESA OPERATING COMPANY

HUMPHREY #2-18

Section 18 T-17S R-24W

660' FSL + 1930' FEL

Ness County, Kansas

Proposed Spud Date:	10/20/94
Contractor:	Mallard Drilling
Elevation:	GL 2390' KB 2395' Est.
Proposed TD:	4400'
Surface Casing:	290'
Production Casing:	If run pipe: Alternate II - 2 stage cement. Set DV tool @ approx. 1500 ft.
Samples: (Wet and dry)	10' samples from 3600' to TD
Drilling Time:	1' drill time from 1625' to 1725'
	1' drill time from 3500' to TD
Gas Detector:	None
Coring:	None
Drill Stem Tests:	1
Wireline Logs:	Yes
Wellsite Geologist:	Larry Friend 316-265-2228 (H)
	316-265-3000 (O)
Alternate:	Steve Stribling 316-265-3000 (O)
	316-264-0553 (H)
Call Depth:	4000'
Stop Depth:	4230'
Mud Program	Mallard Drilling
Rig Phone:	(913) 731-5161

ESTIMATED FORMATION TOPS

Stone Corral	1654
B/Stone Corral	1683
Heebner	3696
Lansing	3738
B/KC	4030
Fort Scott	4242
Cherokee	4265
Cherokee Sand	4316
Mississippian	4334

WELL PROGNOSIS
GRAND MESA OPERATING COMPANY
HUMPHREY #2-18
SECTION 18-17S-24W
1800' FNL + 1650' FWL
NESS COUNTY, KANSAS

PROPOSED SPUD DATE: July 5, 1997
CONTRACTOR: MALLARD DRILLING
ELEVATION: GL 2395' EST KB 2400' EST.
PROPOSED TD: 4375'
SURFACE CASING: 210'
PRODUCTION CASING: IF RUN PIPE: ALTERNATE II - 2 STAGE
CEMENT. SET DV TOOL @ APPROX. 1670 FT.
SAMPLES: (WET AND DRY) 10' SAMPLES FROM 3600' TO TD
DRILLING TIME: 1' DRILL TIME FROM 1600-1700'
1' DRILL TIME FROM 3500' TO TD
GAS DETECTOR: NONE
CORING: NONE
DRILL STEM TESTS: 1-2
WIRELINE LOGS: POSSIBLY
WELLSITE GEOLOGIST: LARRY FRIEND 316-265-2228 (H)
316-265-3000 (O)
ALTERNATE: STEVE STRIBLING 316-264-0553 (H)
316-265-3000 (O)
CALL DEPTH: 3800'
STOP DEPTH: 4235'
MUD PROGRAM: Mallard Drilling
RIG PHONE: (913) 731-5161

ESTIMATED FORMATION TOPS:

STONE CORRAL	1660
B/STONE CORRAL	1688
HEEBNER	3702
LANSING	3744
BKC	4037
FORT SCOTT	4245
B/PENN LIME	4314
CHEROKEE SAND	4322
MISSISSIPPIAN	4346

NOWSCO

WELL SERVICE, INC.

105 S. Broadway, Suite 900 • Wichita, Kansas 67202
PHONE (316) 264-1133 • FAX (316) 264-9650

Grand Mesa Humphrey #2

**Ness County, KS. Sec.18-17S-24W
Acid Stimulation**

File
IN well
File
R

NOON

Prepared for Ron Sinclair
Grand Mesa
(316) 265-3000

Prepared by Dan Klaus
Nowsco Well Service, Inc.
(316) 264-1133

Service point Hays, Kansas
Operations Supervisor: Bob Harris
(913) 625-6518

24-Feb-96

Grand Mesa
Humphrey #2
Ness County, KS. Sec.18-17S-24W
Acid Stimulation
2/24/96

JOB DATA

Job Type:	Acid old Well	
Treating Conductor:	2 7/8" * 5 1/2" Annulus	
Est. Pump Rate (bpm):	Dump	
Est. Pressure (psi):	Vacuum	(max psi)

Fluid Requirements:	15% HCL W/Additives	500 gallons
	Mississippi Flush Water furnished by Operator	3,000 gallons

N₂/CO₂ Requirements:
Proppant/Diverter Requirements:

WELL DATA

Formation:	Mississippi
Perforated Interval:	Aprox 4400'
No. of Perforations:	na
Perforation Diameter:	na
Frac Height (ft.):	na
Net Pay (ft.):	4'
Fracture Gradient (psi/ft):	na
Bottomhole Pressure (psi):	na
Bottom Hole Temp (°F):	na
Porosity (%):	na
Permeability (md):	na
Tubing Size:	2 7/8"
Casing Size:	5 1/2"
Well/Production type:	Oil

Additional Information:

Dump 500 gals. 15% Iron reducing, NE FE Acid.
Flush with Mississippi water to Perfs.
Let Set 4 hours and Produce back through Pump.

Fluid 1: 15% HCL W/Additives
Fluid 2: Mississippi Flush Water furnished by Operator

LOADING PER 1000 GALS.

[illegible]

Additional Information

PAULY & COMPANY, INC.

David B. Pauly, Jr.
Petroleum Consultant

WELLSITE SUPERVISION - DRILLING / COMPLETION / PRODUCTION / FLUID LEVELS
OPERATIONS * NATURAL GAS - PIPELINE DESIGN / KCC 4PT., IPT. FLOW TESTS

Grand Mesa Operating Company
200 East First Street, Suite 307
Wichita, Kansas 67202

RE: Humphrey # 2
SW-SE Sec. 18-17S-24W
Ness County, Kansas

Well Data:

RTD: 4356'
ZERO: KB = 2396' (5' AGL)
SURF.CSG: 354' 8-5/8"

Completion Data:

OPEN HOLE: 13'
PROD. CSG: 5-1/2" 14# @ 4343'
DV: 1714'
STIMULATION: 250 15% MCA

Equipment:

TBG: 137 JTS. 2-7/8"
RODS: 171 3/4"
PUMP: 2"x1-1/2"x12' BHD,TB
TBG. ANCHOR: @ 4247'
PUMPING UNIT: 114, 54" stroke

Completion Report

11-22-94

Leon's Drilling MIRU cable tool.

11-23-94

Run csg. swab. Swab fluid down to 1,600'. Drill 15' of cement rubber plug and DV at 1,714'. Push DV to TD with swab mandrel. Run csg. swab. Swab down to 4,200'. SD for Thanksgiving.

11-28-94

Drill 65' of mud and cement on top of insert. Drill insert and 6' of cement in shoe joint. Changed bits. Bailed hole recovered parts of insert, DV tool and rubber. SDON.

11-29-94

Drill shoe joint, guide shoe and 13' of open hole. Fluid increased 75' on first bailer run. Bail hole clean good show of oil very muddy. SDON.

11-30-94

FL 2,700' down (1,650' of fill up in 15 hours) 100% oil. Run bailer one run hole clean, oil muddy. Swab down recovered 36.7 bbl. of oil (50' off bottom) 1/2 Hr. test 1.67 bbl. Bail two hours recd. 3 bbl. oil. Swab one run (two hour test) recd. 2.5 bbl. Note: test for two hours would be 5.5 bbl. including bailer oil. SERFCO treat with 250 gal. 15% MCA. MP = 100 psi. stage well one hour. Pump .25 BPM at 50 psi. ISIP = 0 psi. TL = 112.5 bbl. Swab down to 4,000' recd. 113.6 bbl. last pull 100% oil. SDON.

(316) 264-0490
100 N. Main, Suite 710

Fax (316) 264-5852
Wichita, Kansas 67202

Mobile (316) 272-1125
Cellular Phone

12-1-94

Fl 1,800' down (2,550' of fill up in 14 hours) 100% oil swab down recovered 67.5 bbl. oil. 1/2 Hr. test 5.01 bbl. (50' off bottom). Run bailer one run hole clean show of water on bottom. Move tbg. and rods from Humphrey #1 and run as follows:

Run 2-7/8" TBG. replace four joints as follows top to bottom:

KB to top of tbg.	+3.00'
1-2' 2-7/8" sub	2.00'
1-4' 2-7/8" sub	4.00'
1-10' 2-7/8" sub	10.00'
135 jts. 2-7/8"	4227.74'
1- Elder tubing anchor	2.74'
2- jts. 2-7/8" tbg.	63.67'
1-seat nipple 1.78" ID	1.10'
1- mud anchor	31.39'
Tbg. set at	4345.64'
Seat nipple at	4313.15'
Anchor set at (10,000 # over tbg.)	4246.74'
Tag TD at	4362.40.

12-2-94

Run 2"X1-1/2"X12' BHD TB pump with 6' gas anchor, 1-8', 1-6' sub and 171 3/4" rods. Replaced stuffing box and clamps. RDMO.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 7649

Well Name & No.	<u>Humphrey #2-18</u>	Test No.	<u>1</u>	Date	<u>11-3-94</u>
Company	<u>Grand Mesa Operating Co.</u>	Zone Tested	<u>FORT SCOTT</u>		
Address	<u>200 E. 1ST ST. WICHITA, KS. 67202</u>	Elevation	<u>2396 K.B.</u>		
Co. Rep./Geo.	<u>Harry Friend</u>	Cont.	<u>Mallard #2</u>	Est. Ft. of Pay	
Location: Sec.	<u>18</u>	Twp.	<u>17</u>	Rge.	<u>24</u>
		Co.	<u>Ness</u>	State	<u>Ks.</u>
No. of Copies	<u>5</u>	Distribution Sheet	Yes <u>X</u> No	Turnkey	Yes <u>X</u> No
				Evaluation	

Interval Tested	<u>4221 - 4270</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>49</u>	Top Choke — 1"	Bottom Choke — $\frac{3}{4}$ "
Top Packer Depth	<u>4216</u>	Hole Size — $7\frac{7}{8}$ "	Rubber Size — $6\frac{3}{4}$ "
Bottom Packer Depth	<u>4221</u>	Wt. Pipe I.D. — 2.7 Ft. Run	
Total Depth	<u>4270</u>	Drill Collar — 2.25 Ft. Run	<u>250</u>
Mud Wt.	<u>9.2</u> lb/gal.	Viscosity	<u>46</u>
		Filtrate	<u>6</u>
Tool Open @ <u>6:52 p.m.</u>	Initial Blow	<u>Weak- building to 7" fair blow</u>	
Final Blow	<u>Weak- building to 7" fair blow</u>		

Recovery — Total Feet	<u>70</u>	Feet of Gas in Pipe	<u>422</u>	Flush Tool?	
Rec. <u>70</u>	Feet Of	<u>Slightly OC Gsym</u>	<u>10% gas</u>	<u>5% oil</u>	<u>% water 85% mud</u>
Rec.	Feet Of		% gas	% oil	% water % mud
Rec.	Feet Of		% gas	% oil	% water % mud
Rec.	Feet Of		% gas	% oil	% water % mud
Rec.	Feet Of		% gas	% oil	% water % mud
BHT <u>113</u>	°F Gravity	°API @	°F Corrected Gravity	°API	
RW	@	°F Chlorides	ppm Recovery	Chlorides <u>5,000</u>	ppm System
(A) Initial Hydrostatic Mud	<u>2259</u>	PSI	AK1 Recorder No. <u>13754</u>	Range	<u>4000</u>
(B) First Initial Flow Pressure	<u>39</u>	PSI	@ (depth) <u>4225</u>	w/Clock No.	<u>25110</u>
(C) First Final Flow Pressure	<u>39</u>	PSI	AK1 Recorder No. <u>13849</u>	Range	<u>4375</u>
(D) Initial Shut-In Pressure	<u>590</u>	PSI	@ (depth) <u>4266</u>	w/Clock No.	<u>27501</u>
(E) Second Initial Flow Pressure	<u>49</u>	PSI	AK1 Recorder No.	Range	
(F) Second Final Flow Pressure	<u>49</u>	PSI	@ (depth)	w/Clock No.	
(G) Final Shut-In Pressure	<u>492</u>	PSI	Initial Opening <u>45</u>	Test	
(H) Final Hydrostatic Mud	<u>2036</u>	PSI	Initial Shut-In <u>60</u>	Jars	

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

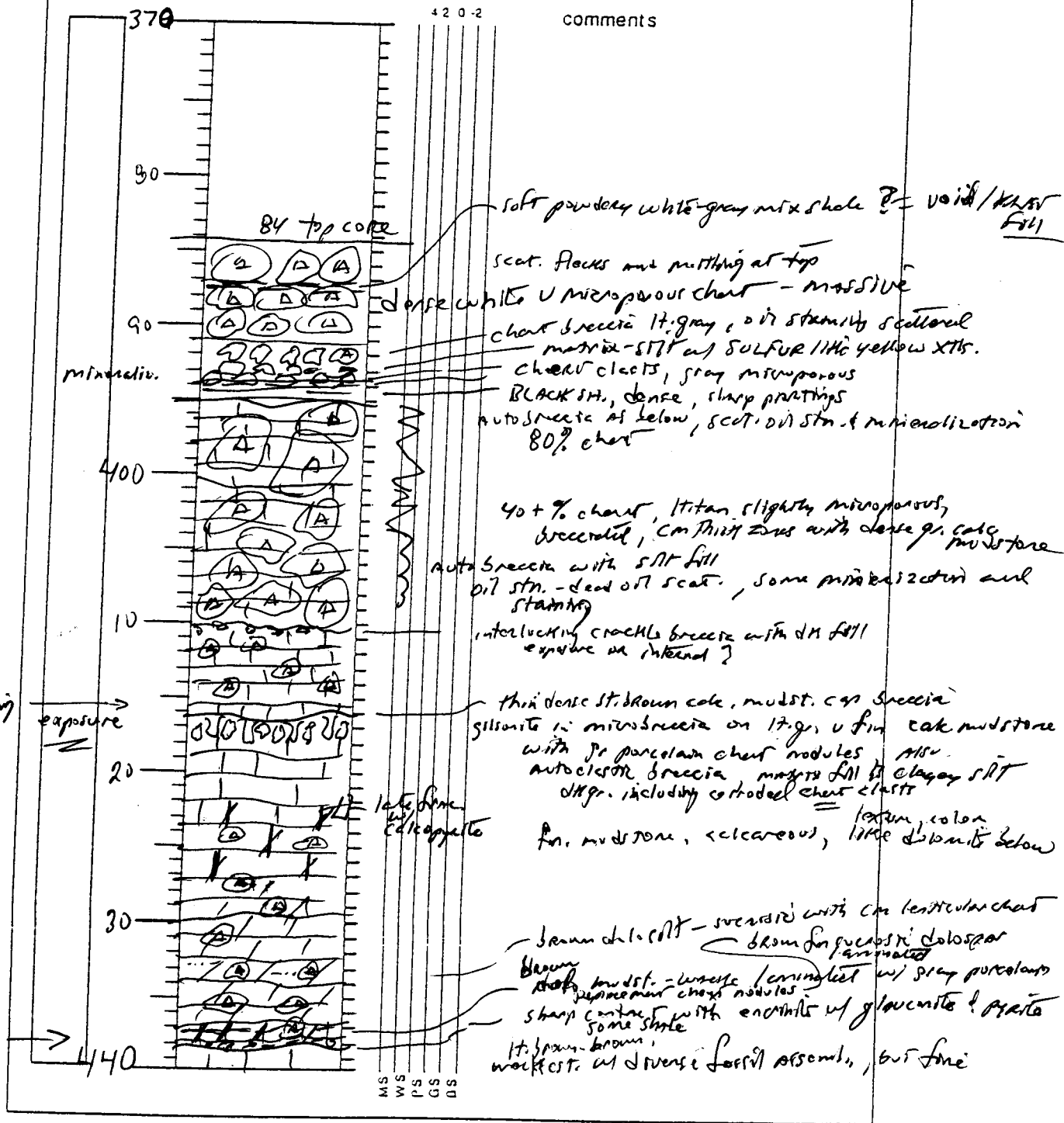
Approved By Harry Friend
 Our Representative Dan Baner

Final Flow 45 Safety Joint X
 Final Shut-In 60 Straddle
 Circ. Sub
 Sampler
 Extra Packer
 Other
 TOTAL PRICE \$

original

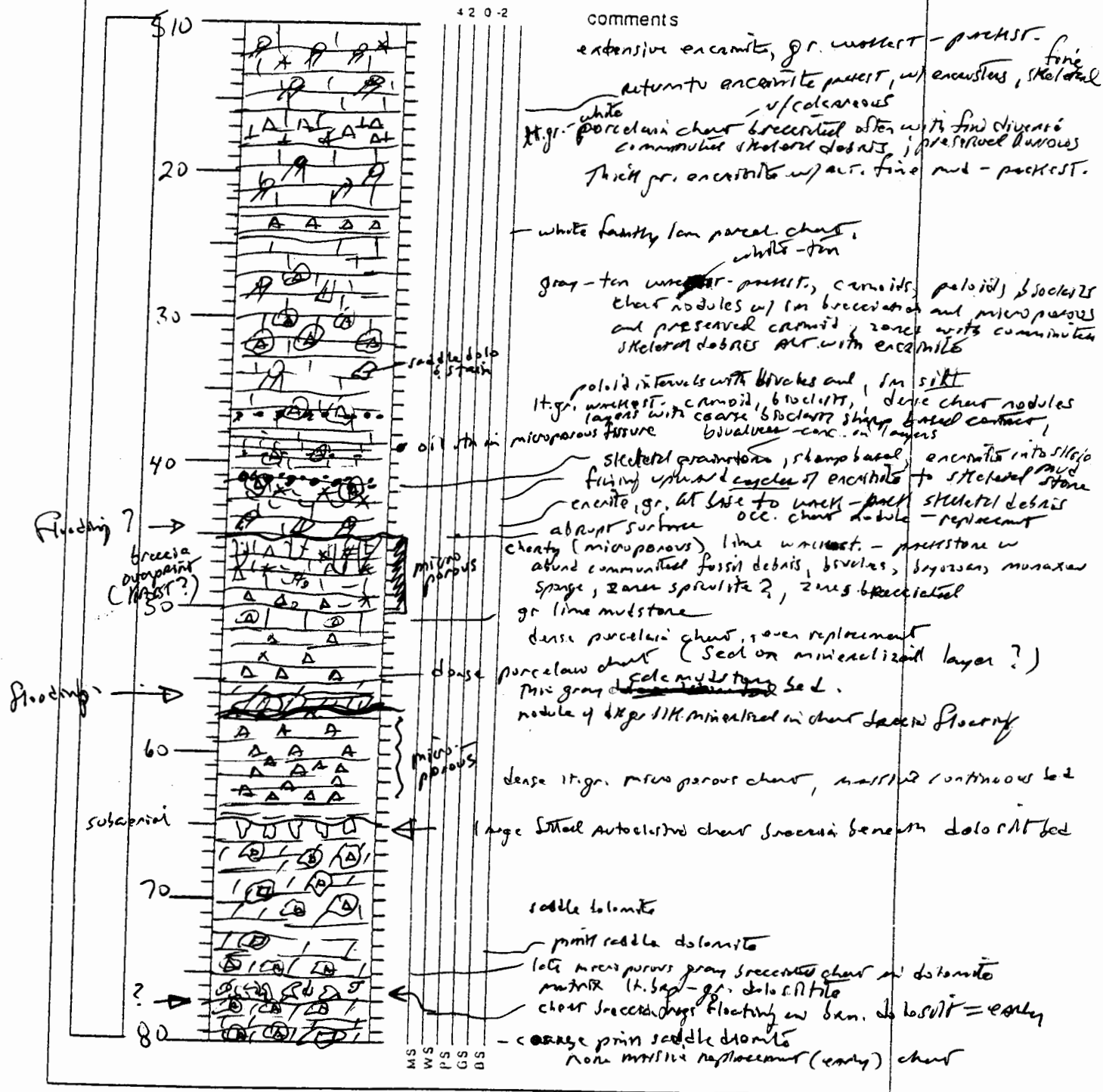
Operator _____
Lease P&M #8
Location Cherokee Co., KS

page 1 of 4
depths _____



Operator _____
 Lease P e M # 8
 Location _____

page 3 of 4
 depths _____



PIPE STRAP ON DST #1

2-18 Humphrey

18-11-20-24

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
			6288
			6183
			6280
			6195
			6263
			6294
			6268
			437-71
			437-71
			6283
			6282
			6271
			6291
			6302
			6300
			6285
			440-14
			877-85
			6323
			6268
			6288
			6276
			6266
			6274
			6269
			439-69
			1317-54
			6258
			6295
			6281
			6261
			6267
			6158
			6279
			437-99
			1755-53
			6289
			6192
			6294
			6261
			6265
			6261
			6287
			438-49
			2194-02

DEPTH	TIME O'CLOCK	MIN.	REMARKS
			6284
			6272
			6172
			6142
			6285
			6277
			6273
			436-85
			2630-87
			6288
			6302
			6278
			6302
			6177
			6279
			6298
			439-24
			3070-11
			6280
			6160
			6280
			6284
			6303
			6291
			376-08
			3446-19
			6281
			6272
			6280
			6280
			3287-36
			3697-55
			600-43
			S 4297-98
			B 4298-61
			-63

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
1650	1204	1	
	25	1	
	06	1	
	07	1	
	09	1	
55	10	1	
	11	1	TOP
	13	2	
	15	2	
	18	2	
60	20	2	
	22	2	
	24	2	
	27	2	
	30	3	
65	33	3	
	36	3	
	39	3	Conn
	41	3	
	50	3	
70	53	3	
	56	3	
	106	3	
	04	4	
	06	2	
75	09	2	
	11	2	
	13	2	
	16	2	
	18	2	
80	21	2	
	24	3	
	26	2	
	29	3	
	31	2	
85	32	1	
	33	1	Bottom
	35	1	
	36	1	
	37	1	
90	38	1	
	39	1	
	40	1	
	40	-	
	41	-	
95	42	1	
	43	1	
	43	-	
	44	-	Conn
	44	-	
1700	50	-	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
1700	50	-	
	52	-	
	51	-	
	51	-	
	52	-	
05	53	1	
	52	-	
	54	-	
	54	-	
	55	-	
10	55	-	
	56	1	
	57	1	
	59	1	
	59	-	
15	200	-	
	200	-	
	01	-	
	01	-	
	02	1	
20	03	1	
	05	1	
	06	1	
	07	1	
	08	1	
25	09	1	
	10	1	
	12	1	
	14	2	
	15	1	Conn
30	20	-	
	21	-	
	22	1	
	23	1	
	24	1	
35	25	1	
	26	1	
	28	1	
	29	1	
	30	1	
40	31	-	
	32	1	
	33	1	
	35	1	
	36	1	
45	37	1	
	37	1	
	40	1	
	41	-	
	42	1	
1750	43	1	

COMPANY

Grand Mesa

FARM

Humphrey

WELL NO.

2-1

SEC.

TWP.

RGE.

LOC.

COUNTY

Ness

STATE

Ks

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3500	2:06	9	3
	10 1/2	1 1/2	
	11	2	
	11 1/2	2	
	12 1/2	1	
	13 1/2	1	
	17	3 1/2	
	19	2	
	21	2	
10	2 3/4	2 1/2	
	2 5/8	2 1/2	
	29	3	
	31 1/2	2 1/2	
	33	1 1/2	
	15 1/6	1	Conn.
	17	1	Displace
	18 1/2	1 1/2	
	20	1 1/2	
	2 1/2	1 1/2	
20	23	1 1/2	
	24 1/2	1 1/2	
	25 1/2	1	
	26	1/2	
	26 1/2	1/2	
	27	1/2	
	27 1/2	1/2	
	28 1/2	1	
	30	1 1/2	J.C. #1
	37 3/4	2	
30	41	2	
	43	2	
	44 1/2	1 1/2	
	45 1/2	1	
	47	1 1/2	
	49	2	
	51	2	
	52	1	
	53	1	
	54	1	
40	55	1	J.C. #1
	40 3/4	1	
	05	1	
	05 1/2	1 1/2	
	06 1/2	1	
	08	1 1/2	
	10	2	CONN
	15 1/4	2	
	19	2	
	21	2	
	22	1	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3550	22 3/4	1 1/2	J.C. #1
	34 1/2	1	Mud Displaced
	38	2 1/2	
	41	3	
	42 1/2	1 1/2	
	44 1/2	2	
	46 1/2	2	
	49 1/2	3	
	52	2 1/2	C.S. #10P
60	58 1/2	2 1/2	
	01	3	
	06 1/2	2 1/2	
	09	2 1/2	
	11	2	
	13 1/2	2 1/2	
	16	2 1/2	
	19	3	
	22	3	
	25	3	
70	27 1/2	2 1/2	
	30	2 1/2	
	33	3	
	36	3	
	38 1/2	2 1/2	
	40	1 1/2	
	42	2	
	44	2	CONN
	46 1/2	1 1/2	
	50	1 1/2	
80	51 1/2	1 1/2	
	53 1/2	2	
	55	1 1/2	
	57 1/2	2 1/2	
	60	2 1/2	
	02 1/2	2 1/2	
	06	3 1/2	
	09	3	
	12 1/2	3 1/2	
	15 1/2	3	
90	17	2 1/2	
	20	2	
	21 1/2	1 1/2	
	23	1 1/2	
	26	3	
	29	3	
	32	3	
	35	3	
	37 1/2	2 1/2	
	40	2 1/2	
	42 1/2	2 1/2	

COMPANY Grand Mesa

FARM Humphrey

WELL NO. 2-18

SEC. TWP. RGE. LOC.

COUNTY Woods STATE Ks

CONTRACTOR SIZE HOLE 7 1/2 DRILL PIPE 4 1/2

REMARKS: SIZE PUMP LINERS LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3600 01	42 1/2 45 1/2	2	
	48 1/2	3	
	51 1/2	2	
	54	2 1/2	
05	57	3	
	59 1/2	2 1/2	
	70 1/2	2	
	00 1/2	3 1/2	
	08	3 1/2	(comp)
10	12 1/2	2 1/2	
	17	2 1/2	
	19 1/2	2 1/2	
	22 1/2	3	
	26	3 1/2	
15	29	3	
	32	3	
	33 1/2	1 1/2	
	36 1/2	3	4 1/2 min
	40 1/2	4	2 1/2 min
20	43 1/2	3	5 min
	47	3 1/2	11 min
	50 1/2	3 1/2	5000 ft
	53	2 1/2	1 1/2 min
	56	3	
25	57 1/2	1 1/2	
	58	1 1/2	
	59	1	
	00	1	
	01	1	
30	02	1	
	03	1	
	04	1	
	05	1	
	06	1	
35	07 1/2	1 1/2	
	10 1/2	3	
	13	2 1/2	
	15 1/2	2 1/2	
	17	1 1/2	
40	18	1	(comp)
	22 1/2	1 1/2	
	25	1 1/2	
	26	1	
	28	2	
45	30	2	
	32	2	
	35	3	
	38	2	
	41	3	
3600	44	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3650 51	44 46	2	
	47 1/2	1 1/2	
	48	1 1/2	
	48 1/2	1 1/2	
55	49 1/2	1 1/2	
	50	1 1/2	
	50 1/2	1 1/2	
	51	1 1/2	
	52	1	
60	53 1/2	1 1/2	
	55 1/2	2	
	57	1 1/2	
	58	1	
	59	1	
65	00	1	
	01	1	
	02	1	
	03	1	
	04	1	
70	05	1	
	06	1	
	07	1	(comp)
	12 1/2	1 1/2	
	13	1 1/2	
75	14 1/2	1 1/2	
	16 1/2	2	
	18 1/2	2	
	21	2 1/2	
	23	2	
80	26	3	
	28	2	
	30	2	
	32	2	
	33 1/2	1 1/2	
85	35	1 1/2	
	37	2	
	39 1/2	2 1/2	
	42	2 1/2	
	44	2	
90	46	2	
	48	2	
	50	2	
	51 1/2	1 1/2	
	53	1 1/2	
95	54 1/2	1 1/2	
	56 1/2	2	
	59	2 1/2	
	01 1/2	2 1/2	
	03	1 1/2	
2700	04 1/2	1 1/2	

ROTARY DRILLING TIME SHEET # 503
KANSAS BLUE PRINT CO., WICHITA, KAN.
Reorder No. 09-281

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
3100	07	2 1/2	
	10	3	
	12	2	CONN
	13	2	
05	20	3	
	22 1/2	2 1/2	
	25	3	
	28	2 1/2	
	31	3	
10	33	2	
	36	3	
	38	2	
	41	3	
	43	2	
15	45	2	
	47	2	
	50	3	
	52	2	
	54	1	
20	55	1	
	56	1	
	58	2	
	11:00	2	
	02	2	
25	04	2	
	07	3	
	10	3	
	13	3	
	16	3	
30	19	3	
	22	2	
	25	3	
	28	2	
	30	2	
35	33	3	CONN
	43 1/2	2	
	48	3	
	52	3	
	55	3	
40	59	3	
	12:02	3	
	05	3	
	09	2	
	10	3	
45	12	2	
	15	3	
	17	2	
	20	2	
	23	3	
3750	24	2	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3150	25	2	
	30	2	
	32	2	
	35	3	
55	38	2	
	41	3	
	44	3	
	47	3	
	50	3	
60	54	3	
	58	4	
	1:02	4	
	05	3	
	10	4	
65	13	3	
	17	3	CONN
	20 3/4	3	
	26	3	
	30	3	
70	33	3	
	37	4	
	40	3	
	48	3	
	46	3	
75	49	3	
	52	3	
	55	3	
	57	2	
	59	2	
80	1:01	2	
	04	3	
	07	3	
	10	3	
	13	2	
85	16	3	
	19	3	
	23	3	
	26	3	
	30	4	
90	34	3	
	37	3	
	41	4	
	43	2	
	45	1	
95	46	1	
	48	1	
	49	1	CONN
	53 1/2	1	
	55	1	
3800	57	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
3800	03	3	
	03	2-	
	06-	3-	
	10-	4	
05	14	3-	
	18	4	
	21-	3-	
	26	4-	
	30	4	
10	53-	3-	
	37	3-	
	41	4	
	45	4	
	49	4	
15	53	4	
	57-	4-	
	401	3-	
	05	4	
	08	3	
20	11	3	
	14	3	
	17-	3-	
	21-	4	
	26	4-	
25	30-	4-	
	35	4-	
	39	4	
	42	3	
	44	2	conn
30	4709	7	
	51-	2-	
	54	2-	
	56-	2-	
	58-	2	
35	501-	3	VIS 45
	05	3-	WIT 8.9
	09	4	W.L 6.2
	11-	2-	P.H 11
	13-	2	CHLO R 57000
40	15-	2	
	17	1-	
	19-	2-	
	23-	4	
	27-	4	
45	30	2-	
	34	4	
	38	4	
	42	4	
	45-	3-	
3850	46	-	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3850	46		
			3 MIN
55			
	49		
	50	1	
	51	1	
60	52-	1-	conn
	55-	1-	
	59	2	
	602	3	
	05	3	
65	09	4	
	13	4	
	16-	3-	
	20	3-	
	24	4	
70	28	4	
	32	4	
	35½	3½	
	39	4½	
	42½	3½	
75	45	3½	
	50	4	
	54½	4½	
	58	3½	
	7:01	3	
80	05	4	
	09	4	
	13	4	
	16	3	
	19	3	
85	23	4	
	27	4	
	31	4	
	35	4	
	39½	4½	
90	43	3½	
	47	4	
	50	3	conn
	8:03	2	
	7½	3½	
95	11	3½	
	15½	4½	
	19	3½	
	22½	3½	
	26	3½	
3900	29	3	

COMPANY Grand Mesa

FARM Hampshire

WELL NO. 2-16

SEC. TWP. RGE. LOC.

COUNTY Neosho

STATE

CONTRACTOR

SIZE HOLE

DRILL PIPE

REMARKS:

SIZE PUMP LINERS

LENGTH STROKE

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3900	8:29	3	
	32		
	35	3 1/2	
	39	3 1/2	
	42	3	
	45	3	
	48	3	
	51	3 1/2	
	55	3 1/2	
	58	3	
10	9:05	3 1/2	
	4	3 1/2	
	8	4	
	11	3	
	14 1/2	3 1/2	
	18	3 1/2	
	22 1/2	4 1/2	
	26 1/2	4	
	30 1/2	4	
	35	4 1/2	
20	38 1/2	3 1/2	
	42 1/2	4	
	46	3 1/2	
	50	4	
	54	3	Conn.
	10:00 1/2	3 1/2	
	4	3 1/2	
	6	2	
	9	3	
	11	2	
30	13 1/2	2 1/2	
	15 1/2	2	
	18	2 1/2	
	21	3	
	24	3	
	27 1/2	3 1/2	
	31 1/2	4	
	35 1/2	4	
	39 1/2	4	
40	43 1/2	3 1/2	
	47 1/2	3	
	51 1/2	3	
	55 1/2	3	
	59 1/2	3	
	63 1/2	3	
	67 1/2	3	
	71 1/2	3	
	75 1/2	3	
	79 1/2	3	
	83 1/2	3	
	87 1/2	3	
	91 1/2	3	
	95 1/2	3	
	99 1/2	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
3950	32	4 1/2	
	36 1/2	4 1/2	
	40	3 1/2	
	44	4	
	48 1/2	4 1/2	
	52 1/2	3 1/2	Conn.
	56	3 1/2	
	59 1/2	3 1/2	
	12:02	2 1/2	
	03	1	
	4	1	
50	6	2	
	10	4	
	14 1/2	4 1/2	
	18	3 1/2	
	20 1/2	2 1/2	
	21	1/2	
	24	3	
	27	3	
	30 1/2	3 1/2	
	34	3 1/2	
	37 1/2	3 1/2	
	41 1/2	4	
	45 1/2	4	
	49 1/2	4	47 Vis
	53	3 1/2	9.2 wt
	57	4	5.8 WL
	1:01	4	11.0 PH
	3	4	6.000 SL
	8	3	
	11 1/2	3 1/2	
70	13 1/2	2	
	16	2 1/2	
	20 1/2	4 1/2	
	24	3 1/2	
	29	5	
	32	3	
	36 1/2	3	Conn.
	42	3	
	45	3	
	46 1/2	1 1/2	
80	50	2 1/2	
	53	3	
	56 1/2	3 1/2	
	59 1/2	3	
	2:02 1/2	3	
	5 1/2	3	
	8 1/2	3	
	11	2 1/2	
	15	4	
	18	3	
	21	3	

ROTARY DRILLING TIME SHEET # 503
KANSAS BLUE PRINT CO., WICHITA, KAN.
Reorder No. 09-281

[Handwritten signature]

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
4 00 ⁰⁰	2:21	4	
	25		
	29	4	
	31 1/2	2 1/2	
	35	3 1/2	
	39	4	
	42 1/2	3 1/2	
	45	2 1/2	
	49	4	
	53	4	
10	57	4	
	01 1/2	4 1/2	
	04 1/2	3	
	07 1/2	3	
	11	3 1/2	
	14 1/2	3 1/2	
	18 1/2	4	
	22 1/2	4	Rig ✓ + Conn
	45 48	3	
	51	3	
20	54	3	
	57	3	UIS-47
	400	3	WT-9.1
	04	4	WL-6
	06 1/2	2 1/2	PH-10.5
	10 1/2	4	CH1-5000
	15 1/2	5	
	20	4 1/2	
	23	3	Larry Friend is
	27	4	supposed to call
30	31	4	Ron Sinker with
	35 1/2	4 1/2	Gran Mesa
	40 1/2	5	
	45 1/2	5	
	51 1/2	6	Ray from Western
	57 1/2	6	Testing called
	03 1/2	6	
	09	5 1/2	
	14	5	
	20	6	
40	25	5	
	29	4	
	33 1/2	4 1/2	
	37 1/2	4	
	41	3 1/2	
	44	3	
	47 1/2	3 1/2	
	51 1/2	4	
	55	3 1/2	
	58	3	CONN
41050	02 1/2 05 1/2	3	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
41050	05 1/2	4 1/2	
51	10	4 1/2	
	15 1/2	5 1/2	
	20 1/2	5	
	25	4 1/2	
55	28 1/2	3 1/2	
	32	3 1/2	
	35 1/2	3 1/2	
	40	4 1/2	
	44 1/2	4 1/2	
60	48 1/2	4	
	52	3 1/2	
	55 1/2	3 1/2	
	59 1/2	4	
	04	4 1/2	
65	08 1/2	4 1/2	
	12	3 1/2	
	15	3	
	19	4	
	23	4	
70	27 1/2	4 1/2	
	32	4 1/2	
	36	4	
	39 1/2	3 1/2	
	42 1/2	3	
75	46	3 1/2	
	52	6	
	57	5	
	02	5	
	07	5	CONN
80	11 1/4	3	
	17	3	
	20	3	
	23 1/2	3 1/2	
	27	3 1/2	
85	30 1/2	3 1/2	
	34	3 1/2	
	37	3	
	40	3	
	43 1/2	3 1/2	
90	46 1/2	3	
	50	3 1/2	
	53 1/2	3 1/2	
	57	3 1/2	
	00	3	UIS-49
95	03	3	WT-9.2
	07 1/2	4 1/2	WL-5.4
	12	4 1/2	PH-11
	16	4	CH1-5000
	20	4	
4100	23 1/2	3 1/2	

COMPANY

SEC. TWP. RGE. LOC.

FARM

WELL NO.

CONTRACTOR

COUNTY

STATE

REMARKS:

SIZE HOLE

DRILL PIPE

SIZE PUMP LINERS

LENGTH STROKE

DATE

9 8 70
88.44
71.26

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4100	01	23 1/2	
	26	2 1/2	
	29 1/2	3 1/2	
	33	3 1/2	
	37	4	
05	42	5	
	46	4	
	49 1/2	3 1/2	
	53 1/2	4	
	58	4 1/2	
10	03	5	CONN
	09 1/2	4	
	16 1/2	3 1/2	
	20	3 1/2	
	23	3	
15	25	2	
	28	3	
	32	4	
	35-	3-	
	38-	3	
20	42	3-	
	46	4	
	50	4	
	53	3	
	57	4	
25	11:01	4	
	05	4	
	08-	3-	
	12	3-	
	16	4	
30	19-	3-	
	24	4-	
	29	5	
	35	6	
	40-	5-	
35	44-	4	
	49	4-	
	55	6	
	58-	3-	
	1:02-	4	
40	07	4-	
	12	5	
	16	4	CONN
	21	3	
	25	4	
45	39	4	
	43	4	
	48	5	
	53	5	
	57-	4-	
4150	1:02	4-	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4150	51	10 2	5
	12	5	
	16-	4-	
	21	4-	
55	26-	5-	
	32	5-	
	37	5	
	42	5	
	47	5	
60	53-	6-	
	59-	6	
	2:04	4-	
	09	5	
	14	5	
65	19-	5-	
	24	4-	
	30	6	
	36	6	
	41	5	
70	45	4	
	51	6	
	56-	5-	
	3:03	6-	CONN
	1:08	5	
75	18	5	
	23-	5-	
	28-	5	
	34	5-	
	39	5	
80	46	5	
	52	6	
	58	6	
	4:04	6	
	58-	4-	
85	14	5-	
	20-	6-	
	26-	6	
	31-	5	
	37-	6	
90	42-	5	
	48	5-	
	53-	5-	
	59	5-	
	5:04	5-	
95	10	5-	
	15-	5-	
	21	5-	
	27	6	
	32-	5-	
1200	38	5-	WAKE GEO. AT 4235 or 7:30 AM

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

108.15
 103.50
 101.25

DATE

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4200	55 44	6	
	49	5	
	54	5	
	59	5	
35	05	5	VIS 49 Conn
	11	3	WT 9.3
	20	6	WT 6.2
	26	6	PH 10.5
	31	5 1/2	
10	37	5 1/2	
	42	5	
	47	5 1/2	
	53	5 1/2	
	58	5 1/2	
15	04	5 1/2	
	10	6	
	15	5	
	20	5	
	26	6	
20	31	5	
	36	5 1/2	
	42	5 1/2	
	47	5 1/2	
	53	5	
25	58	5 1/2	
	04	6	
	09	5	
	15	5 1/2	
	21	6	
30	26	5	
	32	6	
	37	5	
	42	5	
	47	5	
35	52	5	WAKE GEO
	03	3	OR 230 AM
	05	2 1/2	
	08	2 1/2	
	10	2	
40	12	2	
	15	3	
	20	5	
	25	5	
	29	4	
45	33	4	46 vis
	36	3	92 wt
	39	3 1/2	6.4 wt
	44	4 1/2	10.5 ph
	48	4	trace con
	52	4	

DEPTH	TIME O'CLOCK	MIN.	REMARKS
4250	51 56	4 1/2	
	01	4	
	05	4	
	10	4 1/2	
55	14	4	
	18	4 1/2	
	22	3 1/2	
	26	4	
	29	3	
60	33	4	CFS 30-60
	37	3	
	42	2	
	44	2	
	46	2	
65	49	3	
	52	3 1/2	
	56	4	CONN
	04	4	VIS-46 WT-9.2 WL-6
	08	4	PH-10.5, chl 5000 LCM-TR
70	11	3	CFS 30-60
	53	4	
	50	5	
	07	5	
	12	5	
	17	5	
	22	5	
	26	4	
	31	5	
	37	6	
	41	4	
	47	5	
	51	4	
	56	5	
	01	4	
	07	6	VIS 43
	12	5	WT 9.2 wt
	17	5	WL
	23	5	PH
	30	7	
	36	6	
	42	6	
	49	7	
	56	6	
	50	6	
	08	6	
	14	6	
	20	5	
	26	6	CONN
	32	4	
	41	5	

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
4300	41	5	
	52	6	
	58	6	
	602	4	
05	105-	3-	
	11	5-	
	15	4	
	19	4	
	23	4	
10	27	4	
	32	5	
	36	4	
	40	4	
	43 1/2	3 1/2	
15	46 1/2	3 1/2	
	49 1/2	3 1/2	
	53 1/2	4	
	56	2 1/2	
	58 1/2	2 1/2	
20	701	2 1/2	
	03	2	
	06 1/2	3 1/2	
	10	3 1/2	VIS-51
	14 1/2	4 1/2	WT-9.3
25	18 1/2	4	WL-6.4
	23 1/2	5	PH-10.5
	27	3 1/2	CHI-9000
	31 1/2	4 1/2	
	36 1/2	5	
30	41 1/2	5	CFS 20"
	23 27 1/2	4 1/2	
	31	3 1/2	
	34	3	
	39	5	
35	43 1/2	4 1/2	
	47 1/2	4	
	52	4 1/2	
	55	3	
	59	4	
40	02	3	
	05	3	VIS-52 WT 9.3 WL 6.6
	07 1/2	2 1/2	PH 10 CHI 9000
	09	1 1/2	CFS 15-30-45-60
	56 57 1/2	1 1/2	LARRY CALL GRAND
45	100	1 1/2	MESA
	01 1/2	1 1/2	
	03 1/2	2	
	06	2 1/2	
	09 1/2	3 1/2	
4350	12	2 1/2	

[illegible]

ROTARY DRILLING TIME SHEET

REPORT ON SETTING THE PRODUCTION CASING

Copy to Dave
Pauley
11/11/94

LEASE HUMPHREY ^{#2-18} CONTRACTOR: MALLARD DRILLING, INC.
LOCATION SW/SE SEC. 18-17S-24W COUNTY NESS
ELEVATION K.B. 2396' D.F. 2394' G.L. 2391'
8 5/8" AT 354 KB FEET NO. SXS CEMENT 200 SX 60/40 POZ 2% GEL 3% CC
NUMBER OF JTS 8 5/8" SURF CASING LEFT ON LOCATION NONE FT NONE
T.D. PER DRILLER 4356' ^{Surface Casing} CEMENT CIRC/ TO SURF. XX YES NO
PLUG DOWN 10:15 A.M. DATE: 10/28/94
RAN THE DRILL PIPE BACK IN TO CIRCULATE. CIRCULATED 1 HR 30 MIN HOURS
COMMENCED LAYING DOWN THE DRILL PIPE AT 2:30 A.M. COMMENCED RUNNING THE PRODUCTION CASING AT 8:30 A.M.
SIZE & WEIGHT OF CASING RUN 5 1/2" 14# XX NEW USED
NUMBER OF JTS RUN 101 SHOE JOINT 10.83 SET AT 4343'
CENTRALIZER ON WHICH JOINTS 1ST JOINT AFTER SHORT JOINT 2,3,4,5 & 6
NUMBER OF JTS PROD. CASING LEFT ON LOCATION 2 FT 87.50
CASING ON BOTTOM AT 10:35 A.M./XXX. CIRCULATED OUT 3 FT OF CAVINGS
CIRCULATED HOLE 30 MINUTES

FIRST STAGE:

STARTED CEMENT IN AT 11:20 A.M./XXX. PLUG DOWN AT 12:05 XXX./P.M.
CEMENTED WITH 100 SX STANDARD EA-2 CEMENT; 5% CAL-SEAL, .24# D-AIRL,
15% SALT AND .5% HALAD - 322 MIXED AT 15.4#/GAL W/ A SLURRY YIELD OF
1.36 CU/FT PER SX.

CIRCULATING CONDITIONS THROUGHOUT THE JOB: GOOD

PLUG DOWN AT 12:05 P.M.

FLOAT HELD: XX YES NO CASING SET AT 4343 FT OFF BTM 13'

D.V. TOOL WAS SET AT 1713.47 WHICH WAS BETWEEN 61ST AND 62RD JOINT.

BASKET AND CENTRALIZER WERE SET ON THE 61ST JOINT IN THE HOLE. WE USED
CITY WATER WITH THE FIRST STATE OF CEMENT.

SECOND STAGE:

OPEN DV TOOL AT 12:20 P.M. CEMENT WITH 310 SX STANDARD HALIBURTON LIGHT
CEMENT (HLC) CONTAINING 1/4 # SX FLOCELE MISED AT 12.7 #/GAL W/A SLURRY
YIELD OF 1.84 CU/FT PER SX CIRCULATED 10 SX TO SURFACE 1:00 P.M.

Post-It™ brand fax transmittal memo 7671		# of pages ▶ <u>3</u>
To <u>Dave Pauley</u>	From <u>Ron Sinclair</u>	
Co.	Co.	
Dept.	Phone #	
Fax #	Fax #	

WELL NAME: Humphrey #2-18
 LOCATION: SW/SE Sec. 18-17S-24W
 CNTY/STATE: Ness County, Kansas
 SURFACE: 8 5/8" @ 290'
 API: #15-135-23840

OPERATOR: Grand Mesa Operating Co
 CONTRACTOR: Mallard JV, Inc.
 FIELD NAME: Dickman
 GL: 2390' KB: 2396'

10-27-94 MIRU Spud 12 1/2 at 4:30 P.M.
 10-28-94 TD 354' @ 12:50 A.M. Dev. 312' - 1/2 degree. Set 8 jts
 8 5/8" at 354.18' with landing joints. Cement with 200 SX
 60/40 Poz; 2% Gel, 3% CC Cement circ to surface. Plug
 down 10:15 A.M. WOC
 10-29-94 TD 1009' Dev. 1/2 at 507' & 1 at 1009' Drilling ahead.
 10-30-94 TD 1947' CMC \$117.00 Drilling ahead.
 10-31-94 TD 2745' Dev 3/4 at 2010' DMC \$938.90 CMC \$1055.90
 Drilling ahead.
 11-01-94 TD 3317' Dev. 3/4 at 3043' DMC \$327.30 CMC \$1383.20
 Drilling ahead.
 11-02-94 TD 3871' DMC \$358.40 CMC \$1741.60 Drilling ahead.
 11-03-94 TD 4230' DMC \$32.80 CMC \$1774.40 Drilling ahead.
 DST #1 4221'-4270' 45-60-45-60 Weak to 7" blow first
 open - Weak to 7" blow second open Rec. 422' gas,
 70' SOCGM (5% Oil, 10% gas, 85% mud) IF: 39/39
 FF: 49/49 ISIP: 590 FSIP 492
 11-04-94 TD 4,310' DMC \$95.20 CMC \$1869.80 Drilling ahead.
 TD 4,356 Dev. 3/4 degree at 4,356' Pipe Strap: .63'
 short to the board DST #2 4343 - 4356 5-45-45-60
 1st open weak building to strong off bottom of bucket
 in 20 min. Second open same - off bottom in 30 min.
 Rec. 278' GIP 526' total fluid: 340' CGO (80% oil; 20% gas);
 186' MCO (70% oil; 30% mud) Gravity 37 degrees
 IFP 68/147 FFP 177/216 ISIP 1106 FSIP 1086
 11-05-95 Go back in hole; circulate; LDDP Set 101 jts 5 1/2" 14# csg
 set at 4343' w/100 SX Std EA-2 cement, 5% Cal-Seal, .25# D-Airl,
 15% Salt, .5% Halad-322 mixed at 15.4#/gal. w/slurry yield of
 1.36 cu/ft per sack. Plug down 11:30 A.M. Alternate II Second
 Stage: DV jt set at 1,713' cemented w/310 SX HLC w/1/4# SX
 Flocele mixed at 12.7#/gal w/slurry yield of 1.84 cu/ft per sack
 from 1,713' to surface. Circulated cement to surface at 1:00 P.M.

=====FINAL REPORT=====

SAMPLE TOPS HUMPHREY #2-18

COMPARISON WELLS

Humphrey #1 #1 Schaben "C"
 NE-SE Sec 18 NW-NE Sec 19

Anhydrite	1656	+740	+8	+2
Heebner	3698	-1302	-1	+5
Lansing	3740	-1344	-1	+5
BKC	4033	-1637	-1	+4
Pawnee	4159	-1763	+4	+8
Ft. Scott	4241	-1845	+3	+7
Ch Shale	4269	-1873	-1	+3
Bs Penn	4310	-1914	0	+4
Miss	4342	-1946	-3	+13

NO LOGS WERE RUN ON THIS HOLE

Report To Grand Mesa Operating
Attn _____
Number _____

Well Name & Num. N Humphrey #2-18
County Ness
API Num. 135-23840

MORNING REPORT

Date 11-5-94 to 6:30 AM. laying down Drill pipe + Drill Casing
@ 4356' Depth w/ 114:15 hrs. on S.H. # 1 B.Wt. _____ Str. Wt. _____
FT. _____ SPM _____ S.NPM _____ Dis. _____ 9 _____ Ft. Strap _____
Prod. Vis. 53 ML 9.3 ML 6.6 CH 9.00 PH 10.5 (CH Trace) (w/ 201.1011) casko 2/32
CMCS _____ CMCS _____ Free tank y ☒ Lost circ. y ☒
Water Delivery Daily 1 Loads _____ Hrs. For mixing 1st Stage cement
Water Delivery Total _____ Loads _____ Hrs. _____
Co. Time 20 1/2 Rig Time 1 Rotary Time 2 1/2
DSTH 2 @ 4356' TD Recovered _____
DSTH @ TD Recovered _____
Bit Trip or Term. @ _____ Hrs. on S.H. _____ Load _____
Fuel 28 M.O. 10 G.O. 18 G.O. 12 + for 11 prop _____ Air _____ for 12 gals.
M.O. Added #1 _____ #2 _____ LPH1 _____ LPH2 _____ PM _____ 31998 _____
G.L. on O.C. Added (air pump, shovel, battery, etc.) _____
Antifreeze Added _____ Air Cleaner (Mott) _____ 1P _____

MISC.

Comments, Supplies/Parts used and/or needed, updated instructions, etc.

11-5-94 7:10 a.m. Rig up to Run 5 1/2.
8:30 Start Casing. Ran 101 jts. 5 1/2" x 14" x 4360'
Shot threads + collars J-II new casing w/ Halliburton Equip. D.V. Tool @ 1733'
10:15 am. C.C.H. 3' to Btm. Tag Btm @ 4356', Pullup 13' +
land casing @ 4343'. C.C.H. = 30 min.
11:20 am. Halliburton pumped 500 gals Chemical mud Swap
+ cement w/ 100 sx. FA-2, displaced w/ 63 Bbl water + 41 Bbl mud.
Plug down @ 12:05 p.m.
12:20 p.m. Open D.V. Tool. Cement w/ 310 sx Halliburton
Lite cement. Displaced w/ 25 Bbl water. Circulate
10 sx To Surface. Plug down @ 1:00 p.m.
1:30 p.m. Set Slips in Braden Head + cut off
Casing.
11-6-94 Moved out Rig tool + Mud Racks.

**GRAND
MESA****OPERATING COMPANY**(316) 265-3000
FAX: (316) 265-3455307 FARMERS AND BANKERS BUILDING
200 EAST FIRST STREET
WICHITA, KANSAS 67202WELL NAME: Humphrey #2-18
LOCATION: SW/SE Sec. 18-17S-24W
CNTY/STATE: Ness County, Kansas
SURFACE: 8 5/8" @ 290'
API: #15-135-23840OPERATOR: Grand Mesa Operating Co.
CONTRACTOR: Mallard JV, Inc.
FIELD NAME: Dickman
GL: 2390' KB: 2396'**COMPLETION REPORT**

11-23-94 MIRU; Swab down to 1600'; Drill 15' of cement on top of DV Tool; Drilled DV tool; Chased to btm; Swab dwn to 4200'; shut down for Thanksgiving

11-28-94 Drilled 65' of mud & cement on top of insert valve

11-29-94 Drilled shoe out; Have 13' of open hole: Bailed once w/75' increase in fluid; Mostly cement, mud. Shut down for night.

11-30-94 1650' fillup - all oil Swab down 36.7 BBL oil; 1/2 hour test 1.67 BBL oil Acidizing with 250 gallons of mud acid. Beginning to lay lead line this afternoon; Moving tubing & rods from #1-18 Humphrey well to this well will run in tomorrow.

12-01-94 Overnight fillup - 2550' all oil; 14 hrs.; Swab dwn 67 1/2 BBLS Oil; Swabed 1/2 hr. 5 BBLS Oil; Running tubing & rods

12-20-94 46 BO; 8 1/2 SPM 34" Stroke

12-21-94 44.60 BO; Barrel Test: 41.84 BO (80%)
10.46 BW (20%)
52.20 Total Bbls Fluid
=====

12-22-94 45.32 BO

12-23-94 36.58 BO; Barrel Test: 72% Oil
28% Water
100%
=====

12-24-94 32.00 BO

12-25-94 33.25 BO

12-26-94 30.31 BO