

Scout Report sent out

Noted in the NID File

Location map pinned

Approval or Disapproval Letter

in unit

Date Completed, P. & A, or operations suspended

17-9-59

TA - plan to go back in well if further tests warranted.

Pin changed on location map

Affidavit and record of A & P

Waiver

Consent

Well log filed

Rework

Notice of Intent to Rework 3-14-61

FILE NOTATIONS

Entered in NID File _____
Entered On S R Sheet _____
Location Map Pinned _____
Card Indexed _____
IWR for State or Fee Land _____

Checked by Chief _____
Copy NID to Field Office _____
Approval Letter _____
Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 11-3-61
OW _____ WW _____ TA _____
GW _____ OS PA _____

Location Inspected _____
Bond released _____
State of Fee Land _____

LOGS FILED

Driller's Log 7-22-62
Electric Logs (No.) 3

E _____ I _____ E-I GR _____ GR-N _____ Micro _____
Lat _____ Mi-L _____ Sonic Others Preparatory Depth Control

Well History duplicate copy

on original data

FILE NOTATIONS

Entered in NID File
Entered On S R Sheet _____
Location Map Pinned
Card Indexed
IWR for State or Fee Land _____

Checked by Chief _____
Copy NID to Field Office _____
Approval Letter
Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 7-9-59
OW _____ WW _____ TA
GW _____ OS _____ PA _____

Location Inspected _____
Bond released _____
State of Fee Land _____

LOGS FILED

Driller's Log 9-30-59
Electric Logs (No.) 4

E _____ I _____ E-I GR GR-N _____ Micro
Lat _____ Mi-L _____ Sonic Others _____

		0
17		

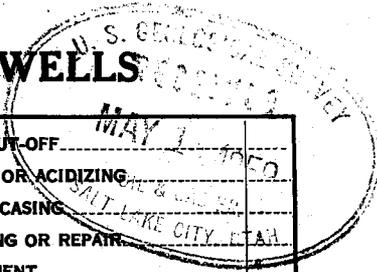
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Salt Lake City**
Lease No. **U-01196**
Unit **Ute Trail Unit**
Uintah Co., Utah

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			



(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Oral permission granted 5-11-59

by Mr. Russell & Mr. Larson

May 11, 1959

Well No. 2 is located 660 ft. from N line and 660 ft. from E line of sec. 17

NE NE 17
(1/4 Sec. and Sec. No.)

T-10-S, R-22-E
(Twp.) (Range)

SLM
(Meridian)

Wildcat
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5050 ft. **Estimated**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Expected Depths

Spud in Uintah fm.
Green River 890'
Wasatch 4235'
Mesa Verde 6560'
Total Depth 8500'

- Will drill with water to approximately 3000' and then with native mud, aquagel and water to total depth.
- Will perforate and frac as warranted.
- Will core and test as warranted.
- If DeKalb et al #1 Ute Trail is not commercial in the Mesa Verde this well will be drilled only to test Wasatch

Surface Csg.

Set 150' of 13-3/8", 48#, J-55 csg. with 125 sxs cement

Intermediate csg

Set approximately 3000' of 9-5/8", 36#, J-55 csg. with 100 sxs

Production Csg.

Set approximately 8500' of 7", 26" and 23", N-80, J-55, csg. with 1000 sxs cement

Company DeKalb Agricultural Assn., Inc.

Address Box 523

Vernal, Utah

By M. C. Johnson

Title Geologist

CONDITIONS OF APPROVAL ATTACHED

		0
17		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. U-21196
Unit Ute Trail Unit
Uintah Co., Utah

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Oral permission granted 5-11-59
by Mr. Russell & Mr. Larson May 11, 1959

Well No. 2 is located 660 ft. from $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$ line and 660 ft. from $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$ line of sec. 17

NE NE 17 T-10-S, R-22-E SLM
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5050 ft. Estimated

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

- Expected Depths
- Spud in Uintah Fm.
 - Green River 890'
 - Wasatch 4235'
 - Mesa Verde 6560'
 - Total Depth 8500'
1. Will drill with water to approximately 3000' and then with native mud, aquagel and water to total depth.
 2. Will perforate and frac as warranted.
 3. Will core and test as warranted.
 4. If DeKalb et al #1 Ute Trail is not commercial in the Mesa Verde this well will be drilled only to test Wasatch

Surface Csg.
Set 150' of 13-3/8", 48#, J-55 csg. with 125 sxs cement, only to test

Intermediate csg.
Set approximately 3000' of 9-5/8", 36#, J-55 csg. with 100 sxs

Production Csg.
Set approximately 8500' of 7", 26" and 23", N-80, J-55, csg. with 1000 sxs cement

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DeKalb Agricultural Assn., Inc.
Address Box 523
Vernal, Utah
By M. C. Johnson
Title Geologist

FEDERAL LAND

CONDITIONS OF APPROVAL

1. The lessee or operator shall mark the derrick or well in a conspicuous place with the name of the operator, well number, the land office and serial number of the lease, and location of the well and shall take all necessary precautions to preserve these markings.
2. A conductor or surface string of casing shall be run and cemented from bottom to surface unless other procedure is expressly authorized by this approval. The conductor or surface string shall be of sufficient weight and length and have installed thereon the proper and necessary high pressure fittings and equipment to keep the well under control in case an unexpected flow of gas, oil or water is encountered.
3. All showings of oil or gas are to be adequately tested for their commercial possibilities. All showings shall be properly protected by mud, cement, or casing so that each showing will be confined to its original stratum. Necessary precautions shall be taken to prevent waste or damage to other minerals drilled through and the U. S. Geological Survey, upon request, shall be furnished with carefully taken samples of such minerals as coal, potash, and salt.
4. Lessee's Monthly Report of Operations (Form 9-329) shall be filed in duplicate with the office of U. S. Geological Survey, P. O. Box 400, Casper, Wyoming, not later than the sixth of the succeeding month. The report should show for this well any change of status occurring within the particular month such as date drilling commenced, suspended, resumed or completed, total depth as of the end of the month, and if shut down the reason therefor.
5. Two copies of the log of this well on Form 9-330, or other acceptable form and when available two copies of all electrical logs, directional, diameter and temperature surveys of the hole shall be filed with the district engineer within 15 days after such information is received by operator on completion of the well whichever is earlier.
6. The District Engineer, J. F. Russell, 437 Federal Bldg., Salt Lake City, Utah, shall be notified on Form 9-331a in triplicate giving thereon all necessary details of the proposed operation or test for proper consideration and action sufficiently in advance of making casing or formation tests, shooting or acidizing, running or cementing casing, other than the surface or conductor string, to permit approval of the notice prior to date of proposed work.

U-01196

MAY 19 1959

Approved _____
J. F. Russell
District Engineer JB

May 20, 1959

DeKalb Agricultural Association, Inc.
P. O. Box 523
Vernal, Utah

Attention: Paul Fugh, Vice President

Gentlemen:

It has come to our attention that you have spudded in Well No. Wte Trail Unit 2, in the NE NE of Section 17, Township 10 South, Range 22 East, SLM, Uintah County, Utah, and that you have set up a location in the NE NE of Section 27, Township 9 South, Range 20 East, SLM, for the drilling of Wte Trail Unit Well No. 4.

As of this date we have not received a notice of intention to drill for either of the above mentioned wells, as required by our rules and regulations.

Your immediate attention to this matter will be greatly appreciated. We are enclosing some of our forms for your use.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT
EXECUTIVE SECRETARY

CBF:co

Encls.

cc: D. F. Russell, Dist. Eng.
U.S.G.S. Federal Bldg.
Salt Lake City, Utah

DEKALB

Agricultural Association, Inc.
COMMERCIAL PRODUCERS AND DISTRIBUTORS OF AGRICULTURAL PRODUCTS

U. S. Oil Division

P. O. BOX 523
VERNAL, UTAH
TELEPHONE 1073

May 21, 1959

The State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City 11, Utah

Attention: C. B. Feight, Secretary

Gentlemen:

In regard to your letter of May 20, 1959 please find enclosed for your files two copies of Notice of Intention to Drill and survey plat on our Ute Trail Unit #2, in the NE NE of section 17, T-10-S, R-22-E and Ute Trail Unit #4 in the NE NE of section 27, T-9-S, R-20-E, Uintah County, Utah.

If you need more information please don't hesitate to call upon us.

Yours very truly,

DEKALB AGRICULTURAL ASSN., INC.
Oil and Gas Division



M. C. Johnson
Geologist

MCJ/dc
Encl.

May 22, 1959

DeKalb Agricultural Association, Inc.
P. O. Box 523
Vernal, Utah

Attention: M. C. Johnson, Geologist

Gentlemen:

This is to acknowledge receipt of your notices of intention to drill Well No. Ute Trail Unit 2, which is to be located 660 feet from the north line and 660 feet from the east line of Section 17, Township 10 South, Range 22 East, S1EM, and Well No. Ute Trail Unit 4, which is to be located 660 feet from the north line and 660 feet from the east line of Section 27, Township 9 South, Range 20 East, S1EM, Uintah County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said wells is hereby granted.

The approval of this office would not be necessary if an unexecuted copy of the Ute Trail Unit Agreement was on file with this Commission.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT
EXECUTIVE SECRETARY

CBF:eo

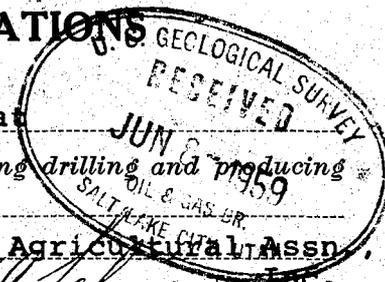
cc: Don Russell, Dist. Eng.
U.S.G.S. Federal Bldg.
Salt Lake City, Utah

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City
LEASE NUMBER U-01196
UNIT Ute Trail Unit
Uintah Co., Utah

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat
The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 1959,
Agent's address P. O. Box 523 Company DeKalb Agricultural Assn., Inc.
Signed M. C. Johnson
Phone 1073 Agent's title Geologist



SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE NE 17	10S	22E	2	None	None		None	None	None	
				May 18, 1959, Spudded well						
				May 20, Set 13-3/8", 48#, J-55 casing at 167' regular cement.						K.B. with 175 sxs
				May 22, Tested casing with 1000# PSI and drilled out from under surface casing.						
				May 22, 26, Drilling.						
				May 26, 30, Combating lost circulation at 1560-1609'.						
				May 31, Drilling at 1820' with no returns.						

NOTE.—There were NO runs or sales of oil; NO M cu. ft. of gas sold; NO runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
LEASE NUMBER _____
UNIT **Ute Trail Unit**
Uintah Co., Utah

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 19 59,

Agent's address P. O. Box 523 Company DeKalb Agricultural Assn.,
Vernal, Utah Signed Saul Hugh Inc.

Phone 1073 Agent's title Manager

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NENE 8	10S	22E	1	None	None	None	None	None	None	Fracing & Testing zones # 1,2,3
NENE 17	10S	22E	2	None	None	None	None	None	None	Drilling in Shale at 6416'
NENE 27	9S	20E	4	None	None	None	None	None	None	Total Depth 6510' Running Electric logs Prep to run casing.

NOTE.—There were No runs or sales of oil; None M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City
Lease No. U-01196
Unit DeKalb - et al #2
Ute Trail Unit

			x
	17		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	Temporary Abandonment	x

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

July, 1959

Well No. 2 is located 660 ft. from N line and 660 ft. from E line of sec. 17

NE NE, Sec. 17
(¼ Sec. and Sec. No.)

T-10-S, R-22-E
(Twp.) (Range)

SLM
(Meridian)

Wildcat
(Field)

Uintah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5077 ft. G.L.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Total Depth 7005', Ran Electric Logs.
Put 37½' cement 15 sacks plug 2320' - 2282.5' and steel cap at surface for temporary abandonment plan to go back in this well at a later date if future tests warrants.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DeKalb Agricultural Association, Inc.

Address P. O. Box 523

Vernal, Utah

By J. R. King

Title Production Superintendent

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R356.5
Approval expires 12-31-60.
Salt Lake City

LAND OFFICE _____
LEASE NUMBER **7114**
UNIT **WEST TRAIL UNIT**
Wasatch County, Utah

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Wasatch Field Wildcat 8-11-59

The following is a correct report of operations and production (including drilling and producing wells) for the month of July, 1959,

Agent's address Box 523 Company DEKALB AGRICULTURAL ASSN., INC.
Vernal, Utah Signed Saul Singh

Phone 1073 Agent's title Vice-President & Manager

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
None	8	10-S	22-E	1	-0-	-0-	-0-	-0-	-0-	Shut in for pressure build up. Last test est. 1 million Cu. Ft. Gas per day.
None	17	10S	22E	2	-0-	-0-	-0-	-0-	-0-	Temporarily Abandoned
None	16	10S	22E	3	-0-	-0-	-0-	-0-	-0-	Drilling in Shale at 2007'
None	27	9S	20E	4	-0-	-0-	-0-	-0-	-0-	Blowing and Testing after Frac. Est. of 200,000 Cu. Ft. Gas per day
None	23	9S	20E	5	-0-	-0-	-0-	-0-	-0-	Drilling in Hard Rocky Lims at 1988'

NOTE.—There were no runs or sales of oil; None M cu. ft. of gas sold;

None runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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FOLD MARK

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	167' KB	175 Reg. Cement	Pump & Plug		
9-5/8"	2311' KB	500 Reg. Cement	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material Cement Length 37 Feet Depth set 2283 to 2320
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
None						

TOOLS USED

Rotary tools were used from 3 feet to 7005 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
 The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Chas. Hamilton, Driller L. H. Jorgensen, Driller
Larry Caldwell, Driller Ralph Murray, Pushed Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	1100	1100	Uintah <u>Electric Log Tops</u>
1100	4318	2218	Green River 1100'
4318	6620	2302	Wasatch 4318
6620	T. D.	385	Paleocene ? T. D. 7705'

[OVER]

At the end of complete Driller's Log, add Geologic Tops. State whether Electric Logs or samples.

SEP 3 0 1959

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DEKALB

Agricultural Association Inc.
COMMERCIAL PRODUCERS AND DISTRIBUTORS OF AGRICULTURAL PRODUCTS

U. S. Oil Division

P. O. BOX 523
VERNAL, UTAH
TELEPHONE 1073

September 29, 1959

State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City, Utah

RE: Ute Trail Unit
Sec. 17, T10S, R22E
Uintah Co., Utah

Gentlemen:

Please find enclosed for your files two (2) copies of Log of Oil or Gas Well as well as an Induction-Electric, Sonic and Micro-Log on the above captioned well.

Yours very truly,

DEKALB AGRICULTURAL ASSN., INC.
U. S. Oil Division



M. C. Johnson
Geologist

MCJ/dc
Encl.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City

LEASE NUMBER _____
UNIT Ute Trail Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1960,

Agent's address Box 523 Company DEKALB AGRICULTURAL ASSN., INC.
Vernal, Utah Signed Saul Tugh

Phone 1073 Agent's title Manager

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NENE 8	10S	22E	1	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NENE 17	10S	22E	2	-0-	-0-	-0-	-0-	-0-	-0-	Abandoned.
NENE 16	10S	22E	3	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NENE 27	9S	20E	4	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NENE 23	9S	20E	5	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NENE 24	9S	20E	6	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NENE 4	10S	22E	7	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NwNw 22	10S	22E	8	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

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a w r

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City
LEASE NUMBER _____
UNIT Ute Trail Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1960,

Agent's address Box 523 Company DEKALB AGRICULTURAL ASSN., INC.
Vernal, Utah Signed Saul Dugh

Phone 1073 Agent's title Manager

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
✓ NENE 8	10S	22E	1	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
✓ NENE 17	10S	22E	2	-0-	-0-	-0-	-0-	-0-	-0-	Abandoned.
✓ NENE 16	10S	22E	3	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
✓ NENE 27	9S	20E	4	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
✓ NENE 23	9S	20E	5	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
✓ NENE 24	9S	20E	6	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
✓ NENE 4	10S	22E	7	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
✓ NwNw 22	10S	22E	8	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City
LEASE NUMBER _____
UNIT Ute Trail Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wilcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of April, 19 60

Agent's address P. O. Box 523 Company DEKALB AGRICULTURAL ASSN., INC.

Vernal, Utah

Signed Paul Hugh

Phone 1073

Agent's title Manager

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NENE 8	10S	22E	1	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NENE 17	10S	22E	2	-0-	-0-	-0-	-0-	-0-	-0-	Abandoned
NENE 16	10S	22E	3	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NENE 27	9S	20E	4	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NENE 23	9S	20E	5	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NENE 24	9S	20E	6	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NENE 4	10S	22E	7	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.
NWNW 22	10S	22E	8	-0-	-0-	-0-	-0-	-0-	-0-	Shut In.

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

4
AWP

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 12 R 25
Approval expires 12 31 65
LAND OFFICE Salt Lake City, Utah
LEASE NUMBER
UNIT Utah Br-U Unit

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 1960

Agent's address P. O. Box 523 Company DEWALE AGRICULTURAL ASSN., INC.
Vernal, Utah

Signed [Signature]
Agent's title Manager

Phone 1073

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS <small>If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas</small>
NE 8	10S	22E	1	-0-	-0-	-0-	-0-	-0-	-0-	Shut In
NE 17	10S	22E	2	-0-	-0-	-0-	-0-	-0-	-0-	Abandoned
NE 16	10S	22E	3	-0-	-0-	-0-	-0-	-0-	-0-	Shut In
NE 27	9S	20E	4	-0-	-0-	-0-	-0-	-0-	-0-	Shut In
NE 23	9S	20E	5	-0-	-0-	-0-	-0-	-0-	-0-	Shut In
NE 24	9S	20E	6	-0-	-0-	-0-	-0-	-0-	-0-	Shut In
NE 4	10S	22E	7	-0-	-0-	-0-	-0-	-0-	-0-	Shut In
NW 22	10S	22E	8	-0-	-0-	-0-	-0-	-0-	-0-	Shut In

Note.—There were No runs or sales of oil; No M cu. ft. of gas sold; No runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City, Utah
Lease No. D-01196
Unit Wte Trail Unit

			X
	17		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	
<u>Notice of Intention to Repair Well X</u>	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 14, 19 61

Well No. 2 is located 540 ft. from N line and 440 ft. from E line of sec. 17

17 Section 17 (1/4 Sec. and Sec. No.)
1-10-1 (Twp.) 1-22-1 (Range) W (Meridian)
Bitter Creek (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 5082 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Set 7" casing at 7005' K. B. with 750 sacks cement, W. O. C. 36 hours.
2. Drill 6-1/2" hole from 7005' to 8500' with gas.
3. Propose to run 5" liner if production is encountered.
4. Perforate and free as conditions warrant.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company ORHALS AGRICULTURAL ASSN., INC.
Address Box 523
Vernal, Utah
By M. C. Johnson
Title Geologist

Form 9-381a
(Feb. 1951)

Land Office Salt Lake City, Utah
Lease No. U-01196-C
Unit Ute Trail Unit

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

		X
17		

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Running 7" Casing and Cementing</u>	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

..... April 5,, 19 61

Well No. 2 is located 660 ft. from [N] line and 660 ft. from [E] line of sec. 17

NE/4 NE/4 Section 17 T-10-S, R-22-E S. L. M.

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

Bitter Creek

Uintah

Utah

(Field)

(County or Subdivision)

(State or Territory)

The elevation of the derrick floor above sea level is 5082 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

April 1 to 4, 1961- Clearing out to 7005' K. B.
April 4, 1961- Set 7" (23# 226#, N-80 and 23# J-55) casing at 7005' with total of 900 sacks pozmix plus 2% Gel. D. V. Collar at 5600 feet. Preceded cement with 200 gal. mud acid 1st stage, 300 gals. 2nd stage. Plug down 12:50 P. M.
April 5, 1961. W. O. C. 72 Hours. Top of cement 3850'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DEKALB AGRICULTURAL ASSN., INC.

Address P. O. Box 523

Vernal, Utah

By M. C. Johnson

Title Geologist

192

Form 9-331a
(Feb. 1951)

Ching

			X
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(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CORRECTED REPORT

Land Office Salt Lake City, Utah
Lease No. U-01196-C
Unit Ute Trail Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Buried 7" Casing and Cementing</u>	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 13, 19 61

Well No. 2 is located 660 ft. from [N] line and 660 ft. from [E] line of sec. 17

NE/4 NE/4 Sec. 17 T-10-S, R-22-S S. L. M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Bitter Creek Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5082 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

April 1 to 4, 1961 - Cleaning out to 7005' K. B.
April 4, 1961- Set 7" (23# & 36#, K-80 and 23# J-55) Casing at 7005' with shoe float Collar and D. V. Collar at 5837'. Overall length 7024.59', Cemented with 900 sacks Pozmix with 2% Jel, 350 sacks first stage, 550 sacks second stage. Proceeded with 500 gallon mud acid, 200 gal first stage, 300 gal. second stage. Started mixing first stage at 12:10 P. M., plug down at 12:50 P. M. Started mixing second stage at 1:45 P. M. Plug down at 2:40 P. M.

W. O. C. 72 Hours. Top of Cement at 3850'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DEKALB AGRICULTURAL ASSN., INC.

Address P. O. Box 523

Yernal, Utah

By M. C. Johnson

Title Geologist

W

115

			X
		17	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. U-01196
Unit Ute Trail Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	X	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	X	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 17, 1961

Well No. 2 is located 660 ft. from N line and 660 ft. from E line of sec. 17

NE NE Section 17 T-10-S, R-22-E S.L.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Bittercreek Uintah County Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5081 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

- Propose to set 5", 14.87# Hydrill liner from 6800' to Total depth (9135 7) with 185 sacks cement. Will circulate cement above top of liner. Will pressure up and test liner prior to perforating and fracing.
- Propose to perforate, frac and test Mesaverde zone 8890 to 8940' and Wasatch zones 4900 to 5250 feet. Will dual complete if both zones produce commercially.

RECEIVED
BR. OF OIL & GAS OPERATIONS
MAY 19 1961
U. S. GEOLOGICAL SURVEY
SALT LAKE CITY, UTAH

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DeKalb Agricultural Assn., Inc.

Address P. O. Box 523

Vernal, Utah

By M.C. Jensen

Approved MAY 22 1961
D.F. R... Title Geologist

R-2

			X
	17		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Salt Lake City, Utah**
Lease No. **U-01196-C**
Unit **UTS TRAIL UNIT**
DEKALB, ET AL # 2

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	Running 4-1/2" Liner - Cement	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 24, 19 61

Well No. **2** is located **660** ft. from **N** line and **660** ft. from **E** line of sec. **17**

~~WENT~~ Section **17**
(Sec. and Sec. No.)

T-10-S, R-22-E
(Twp.) (Range)

S. 1. N.
(Meridian)

Bitter Creek
(Field)

Utah
(County or Subdivision)

Utah
(State or Territory)

The elevation of the derrick floor above sea level is **5082** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

May 23, 1961: Total depth 9244 Feet.
Ran 79 Jts. 4-1/2", O. D., N-80, 13.40# Youngstown Hydrill Flush Liner.
Overall length 2452 Feet, set at 9242 Feet. Top of liner at 6790 Feet.
Cemented with 275 Sacks. Saturated Salt Water Cement, plus 50-50 permix,
plus 2% Gel. Plug Down at 5:30 A. M. May 24, 1961: Cement Circulated.
W. O. C.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **DEKALB AGRICULTURAL ASSN., INC.**

Address **Box 523**

Ternal, Utah

By *Paul Rugh*

Title **Manager**

Form 9-831a (Feb. 1961) X

17		

(SUBMIT IN TRIPLICATE)
 UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

Land Office Ute Trail
 Lease No. DeKalb, et al # 2
 Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	Perforations and Packers	X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO ABANDON WELL.....	SUPPLEMENTARY WELL HISTORY.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOT ~~June 7~~ OTHER DATA) 61

2 660 660 197
 Well No. WENL Section 17 is located T-10-Sft. from ^{xxx} [N] line and S. L. Mt. ^{xx} [E] line of sec. _____
Bitter Creek Uintah Utah
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

 (Field) (County or Subdivision) 5062 (State or Territory)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

5-28-61: Ran McCullough Gamma Ray Correlation & Collar Locator Log from 9199' to 8300', McCullough total depth inside liner 9202'. Perforated with 4 shots per foot with 19 Gram Mac Jets from 8894' to 8926', total of 32'. Tubing pressured immediately, tubing pressure 1800#. Opened tubing to flow line on 20/64" choke. Flowing to clean up before fracing. Making estimate of 200,000 CFGD, unloading muddy water.

DEKALB AGRICULTURAL ASSN., INC.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company BOX 523
 Address Vernal, Utah
 By Geologist
 Title MC Johnson

R28

			X
	17		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah
Lease No. U-01196-C
Unit Ute Trail
DeKalb, et al # 2

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		Fracing of well	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 8, 1961

Well No. 2 is located 660 ft. from [N] line and 660 ft. from [E] line of sec. 17

NENE Section 17
(1/4 Sec. and Sec. No.)
Bitter Creek
(Field)

T-10-S, R-22-E
(Twp.) (Range)
Uintah
(County or Subdivision)

S. L. M.
(Meridian)
Utah
(State or Territory)

The elevation of the derrick floor above sea level is 5082 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing jobs, and all other important proposed work)

June 7, 1961: Total Depth 7244
Packers - 6783' Top, Bottom 6787'. Tubing 6775.5' set in top of Baker Model "D"
Fraced with 220 Bbls with sand and Walnut Halls. Began frac with 1/4# sand pumped in with 50 bbls, increased to 1/2# Sand with 50 bbls. At end of 100 bbls frac, shut sand off and started with Walnut halls, 1/10# Walnut Halls per gallon for remainder of frac. Used 120 bbls with Walnut halls. Total of 220 bbls frac. Loaded hole and break down with 50 bbls, used foaming agent to load hole, used 85 bbls flush with foaming agent. Max. Treating Pressure 4100#, Minimum 3900#, Average Injection rate 14.1 bbls/min. Immed. SIP 2600#, 20 Min. SIP 2400#. Job completed 10:13 A. M. June 7, 1961. Total Bbls. Used 355, Total Sand 1250#, Total Walnut Halls 500#, 2 Gal. G-2, 340# J-101 Fluid Loss Additive, 400# J-99 Gelling Material, 40# J-100 Friction reduction material.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DEKALB AGRICULTURAL ASSN., INC.
Address BOX 523
Vernal, Utah

By M. C. Johnson
Title Geologist

			X
	17		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. U-021196-C
Unit Ute Trail Unit
DeKalb, et al # 2

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<u>Sand Oil Frac</u>	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 8, 1961

Well No. 2 is located 660 ft. from N line and 660 ft. from E line of sec. 17

NE NE Sec. 17 T-10-S, R-22-E S.L.M.
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Bitter Creek Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5082 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

- 8-4-61 Perforated interval 8473-8479 and 8506-8514 with 4 Mac Jet per foot.
- 8-5-61 Pumped into well to check injection pressure drop 40 RCN stage balls. Standing pressure increased 250 psig, drop 140 RCN stage balls to seal lower perfs. Treated interval 8473-79, 8506-14 with 165 bbls jelled water with 1/2 lb. per gallon, 20-40 sand, followed by 25 bbls jelled water with 500 lbs. walnut hulls. Breakdown and maximum press. 4400 psi, minimum treating press. 3800 psi, average treating press. 4200 psi, average injection rate 11.0 B.P.M., flush with 65 bbls.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DeKalb Agricultural Assn., Inc.
Address P. O. Box 523
Vernal, Utah
By R. F. Hullock
Title Drilling Supt.

			X
	17		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Salt Lake City**

Lease No. **U-021196-C**

Unit **Ute Trail**
DeKalb, et al #2

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			
Notice to Plug back & Recomp- X			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 13, 1961

Well No. 2 is located 660 ft. from $\begin{matrix} N \\ S \end{matrix}$ line and 660 ft. from $\begin{matrix} E \\ W \end{matrix}$ line of sec. 17

NE NE Sec. 17 T-10-S, R-22-E S.L.M.
($\frac{1}{4}$ Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Bitter Creek Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5082 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Test of the Mesaverde section open to production indicates a flow of gas of 97 MCF/D, with an estimated 300 B.P.D. salt water. A Baker Model "D" production packer is set in the 7" csg. at 6783' it is intended to move over the well with a completion unit, pull out of the packer and plug back with sand on top of the packer. Reset the tubing at 4800', perforate the Wasatch and sand water frac possible productive intervals.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DEKALB AGRICULTURAL ASSN., INC.

Address P. O. Box 523
Vernal, Utah

By J. F. Jacob
Title Drilling Supt.

			X
	17		

(SUBMIT IN TRIPPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah

Lease No. U-01196

Unit Ute Trail

DeKalb, et al # 2

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		<u>Plug Back, Perforate and Frac</u>	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 24, 1961

Well No. 2 is located 660 ft. from N line and 660 ft. from E line of sec. 17

NENE Section 17, T-10-S, R-22-E S. L. U.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Bitter Creek Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5082 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

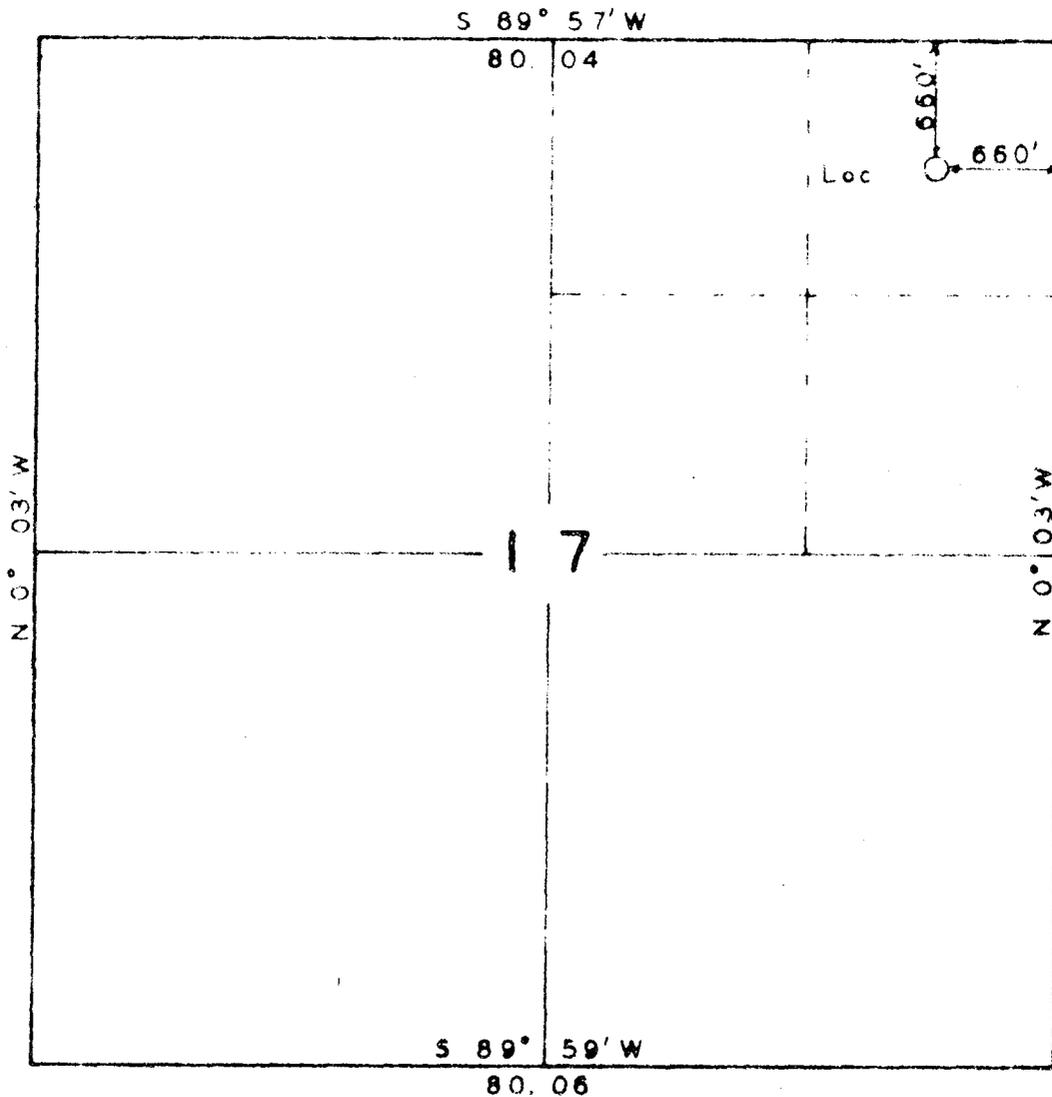
10-15-61: Plugged back with 100 sacks cement 6972' to 6475'. Top of plug at 6475'.
W. O. C. Dan Schlumberger Gamma Ray Corr. Log 5300' to 4800'. Perforated
with 4 shots per foot at 4903' to 4913', 5006' to 5015' and 5135' to 5155'.

10-16-61: Treated intervals with 20,000 gal. Treated water, 15,000# 20/40 Sand,
1,000# -12/20 Walnut Hulls. Treated in 3 stages with 2 stages of 50 RCP Stage Balls.
Breakdown Pressure 2034#, broke to 2500#, Max. Pressure 4000#, Average injection
rate 20 to 24 bbls. per minute. Flowing to clean up and test.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DeKalb Agricultural Assn., Inc.
Address P. O. Box 523
Vernal, Utah
By J. F. Fulleck
Title Drilling Supt.

T 10 S, R 22 E



Scale: 1" = 1000'

X - Rock corner 6" x 7" x 18"
 4 Notches E - 4 Notches S

Elevation: 5072' G. L.
 Elevation taken from # 83X Well
 located in Section 9, T-10-S, R-22-E

By ROSS CONSTRUCTION CO
 VERNAL, UTAH

PARTY R. D. Ross
 S. L. Luck

SURVEY
 DEKALB AGRICULTURAL ASSOCIATION, INC, ETAL
 WELL NO 2 UTE TRAIL UNIT
 NE/4 - NE/4 - SECTION 17, T10S, R22E
 SLB & MERIDIAN, UINAH COUNTY, UTAH

DATE 5-11-59
 REPT INCHES
 GLO Plat
 Approved 1905
 FILE DEKALB

WEATHER Clear - Wind

WELL HISTORY

DEKALB, ET AL
2 UTE TRAIL UNIT
NE NE 17, T-10-S, R-22-E
UINTAH CO., UTAH

7

UTE TRAIL UNIT # 2
NE NE SEC. 17, T-10-S, R-22-E
SUPPLEMENTAL WELL HISTORY
PLUG BACK RE-COMPLETION WASATCH

- 8-4-61
to
10-14-61 Flowing and testing Mesa Verde section, gauge 97 MCF/D gas with an estimated 300 BPD salt water.
- 10-14-61 Moved in workover Rig. Rig up, pulled tubing above Baker Model "D" Packer @ 6783', Plug back with 100 sxs Reg. Cement from 6783'-6538 Waiting on Cement 24 hours.
- 10-15-61 Ran Schlumberger G R N Log 5300-4800', perforated wasatch with 4 link jets/ft, 4903-4913', 5006-5015' & 5135-5155'. Treated interval 20,000 gals treated water with 15,000# 20/40 sand, followed by 1,000# 12/20 crushed walnut hulls. Breakdown pressure 3025 psig, broke back to 2500 psig, Max. pressure 3800 psig. Treated in three stages of 40 RCN stage balls. AVG. I.R. 11 B. P. M. Flush with 7990 gals. Released Rig.
- 10-16-61 Flowing & testing Wasatch well unloading large heads of water
to
10-29-61 Gas gauge too small to measure.
- 10-30-61 Moved in workover Rig, Ran HOWCO RT-3 Packer set @ 4873'. Tested Casing held 1500 psig 12 hrs. Held pressure on casing and swabbed well.
- 11-1-61 Swabbing & testing, recovering 800 feet water per run, gas gauge after 7 hours 77 MCF/D.
- 11-2-61 Swabbing & Testing, SIPT 12 hrs. 800 psig, well blow down & died in 25 minutes. Swab well for 6 hrs. Gauge 80 MCF/D.
- 11-3-61 SIPT 12 hrs. 1300 psig, blow down & die in 25 minutes, swab well, 8 hrs. gauge 84 MCF/D. Released Rig, Shut in non-commercial gas well. Operations suspended.

- 5-13-59 Laying water lines (9 men 8 hrs. each)
- 5-14-59 Laying Gas lines, digging cellar, levelling location, moving rig, (17 men 8 hrs. each)
- 5-15-59 Rigging up Rotary Rig (11 men 8 hrs. each)
- 5-16-59 Rigging up Rotary Rig (13 men 8hrs. each)
- 5-17-59 Rigging up Rotary Rig (8 men 8 hrs. each) Finish rig up 9:00 P. M. Fill pits 9:00 P. M. until 11:00 P. M. Start drilling rat hole at 11:00 P. M. First tour 12 noon to 12 midnight.
- 5-18-59 Drilling with water. Drilling rat hole 12 midnight to 3:00
Spud 3:00 P. M. Repair rig 1 hour. Spud 3:00 P. M. with 13-3/4"
P. M. OSC Retip Bit No. 1. Drill 0-40' til 8:00 P. M. Repair
0-40' Drill rig 1 hour, ream 12-3/4" hole with 17-1/2" Reed reamer
0-40' Ream 0-40' (Shale). Trip for bit back on bottom with 13-3/4"
OSC Bit No. 1 at 12 midnight.
- 5-19-59 Drilling with water and mud. Wt. 8.7, Vis. 36, 12
40' to 169' midnight to 12 noon. (13-3/4" bit) 40'-153' (113')
Drilg & Solid rock. 12 noon to 12 midnight, (13-3/4" bit),
Ream 17-1/2" reamer 153' - 169'. (16') Solid Rock. Drilling
with 13-3/4" bit to 169' until 3:00 P.M. Trip back on
bottom with 17-1/2" Reed Reamer. Ream to 167' until
10:00 PM. Circulate and condition hole until 11:30
P.M. Trip out OSC Bit # 1 made 153' - 15 hours (0-153')
Shale and solid rock. Security Reamer # 1 made 167' -
6 Hours (0-167') Shale and solid rock. OSC Bit # 2
made 16' - 4 hours (153-169') Solid rock, 6 sacks gel,
15 # lime, 72 sacks gel, 2 sacks lime. Mud Wt. 8.7,
Vis. 45.
- 5-20-59 Running Casing 12 midnight to 1:30 A. M. Dump cement 1:30
Set Surface A.M. to 2:00 A. M. W.O.C. Total Depth 169'.
Casing Ran 4 jts. Range 3, 13-3/8" OD, H-40, 48#, Casing, set
WOC at 167'. Cemented with 175 sacks regular cement, good
circulation, Plug 20' off bottom. Plug down 2:15 A. M.
W. O. C.
- 5-21-59 W. O. C. until 2:00 P. M. Break off landing joint, start
WOC nippling Up. W. O. C.
Nip Up

5-22-59
W.O.C.
Nip Up.
169-716'

W.O.C. and nipping up until 4:30 A. M. Drill mouse hole 1-1/2 hour. Mix mud set mouse hole, pressure up casing to 1,000# psi, held 30 minutes, no indication of pressure drop. Start drilling cement at 140' at 12:15 P.M. with 12-1/4" OSC Bit No. 1. 17 Sacks Gel. Survey at 200' - 0 Mud Wt. 8.6, Vis. 40, Survey at 483'-3/4 Degree Bit # 1 Still drilling at midnight..

5-23-59
716' -
1174'

Drilling with Water 12 midnight to 12 noon 716'-919' (203') Sand and Shale. 12 noon to 12 midnight 919' - 1174' (255') Sand Shale and Dolomite. Drill til 5:00 A. M. trip, repair rig. 1 hour. Back on bottom with 12-1/4" OSC -3 Bit No. 2 at 8:00 A. M. Drill til 8:00 P. M. Trip back on bottom with 12-1/4" YTI Bit No. 3, (Ream 55') at 10:00 P. M. Bit No. 1 made 651'-18-3/4 Hours. 167' - 818' Sand and Shale Bit # 2 made 335' - 12 hrs. 818' - 1153' Sand shale and Dolomite Survey @ 1100' - Degree, Survey @ 740' - 1 Degree 50 sawdust, 50 hulls, Bit No. 3 still drilling at 12 midnight.

5-24-59
1174' to
1376'

Drilling with water and Native mud. 12 midnight to 12 noon - 1174' to 1317' (143') Sand and Shale 12 noon to 12 midnight - 1317' - 1376' (59') Shale Drill til 4:45 A. M. Trip (Lost 5' mud (420 bbls) on trip) Back on bottom @ 6:30 A. M. with 12-1/4" YTI Bit No. 4, drill till 3:00 P. M. Trip repair rig 1 hour back on bottom @ 6:30 P. M. (Ream 50' in 30 minutes) with 12-1/4" OSC Bit No. 5. Drill til 8:00 P. M. Jet pits 3/4 hour, still drilling at 12 midnight. Survey @ 1287' - 1 Degree, Bit No. 3 made 117' - 6-3/4 Hours 1153' to 1270' Sand and Shale Bit No. 4 made 59' - 8-1/2 hours 1270' to 1329' Sand and shale 10 sawdust, 5 hulls.

5-25-59
1376' to
1565'
Lost Compl.
Returns at
1561'

Drilling with water and Native Mud. 12 midnight to 12 noon 1376'-1560' (184') Dolomite Sand and Shale. 12 Noon to 12 midnight-1560' to 1565' (5') Lost Circulation, Sand and Shale.

Drill until 4:45 A. M., trip, back on bottom at 6:15 A. M. with 12-1/4" Security (Retip) Bit No. 6. Drilling and loosing Mud at 7:00 A. M. Lost Complete returns at 12 noon, trip out back in hole open end at 2:00 P. M. Mix lost circulation material until 4:00 P. M. Spot pill Gain circulation back, trip, back on bottom with 12-1/4" bit No. 6, start drilling, loose circulation, plug bit. Trip out, mix lost circulation material 8:00 P.M. until 12 midnight. Having pump troubles, lost circulation material:

under valves. Bit No. 5 made 1329' - 1435' (106')
9-1/2 hours, Dolomite, Sand and Shale.

Bit No. 6 made 1434' to 1561' (127') 4-1/2 hours, Sand
and Shale Survey at 1400' - 1Degree.

87 Sacks Sawdust, 14 sacks Gel, 30 sacks Hulls, 19 sacks
Fibertex, 13 sacks Pluggit.

5-26-59
1565' to
1610'

Drilling with water, fighting lost circulation. 12 midnight
to 12 noon 1565-1610' (45') Shale. 12 noon to 12 midnight
1610'-1610' (0') Fight lost circulation. Mixing lost
circulation material, trip in with D.P. open ended spot
pill 3 times, could not gain circulation. Trip go to
bottom with Bit No. 6, mix pits with mud, drill with
no returns, fill tanks with water, drill with no returns.
Dry drill til 9:00 A.M. Plug bit, trip, out, mixing
lost circulation material 6:00 P.M. until 9:00 P.M.
Back in hole drill out lost circulation material.
Bridges 11:00 P. M. Lost Circulation. Mis Mud, sawdust
50 sacks, Hulls 50 sacks, Fibertex 10 Sacks. Gel 42
sacks, Flake 10 sacks, Pluggit 10 sacks, Placowool 10
sacks Gel 93 sacks.

5-27-59
1610'
No new
footage

Trying to get lost circulation back. 12 noon from 12
midnight mixing lost circulation material. 12 noon
to 12 midnight, rigging up to drill with gas. 12
midnight to 3:00 A. M. mix lost circulation material,
pump in hole lost same. 5:00 A. M. to 6:00 A. M. trip
out, start rigging up to drill with gas at 5:00 A. M.
Still rigging up at 12 midnight. 47 sacks gel, 10 sacks
fibertex, 10 sacks pluggit, 47 sacks hulls, 50 sacks
sawdust.

5-28-59
1610'
No new
footage

Rigging up to drill with gas. 12 midnight to 12 noon,
try to blow hole dry with gas. 12 noon to 12 midnight
blowing hole with gas to dry up hole making water from
lost circulation zone.

5-29-59
1610'
No new
Footage

Trying to blow hole dry with gas.
12 midnight to 12 noon, try to blow hole dry with gas.
12 noon to 12 midnight, trying to to blow hole dry with
gas. Hole making water, building dam and reservoir to
hold water for dry drilling. Filling reservoir.

5-30-59
1610-1742'
Dry drill-
ing.

Blowing hole with gas to dry dry up (Making water)
12 midnight to 12 noon, blowing hole to fill reservoir
with water. 12 noon to 12 midnight, 1610' to 1742'
(132'), dry drill no returns. Blow with gas approx.

400 bbls, water per hour to fill reservoir. 12 midnight until 10:00 A. M., trip out, rig up to dry drill. 10:30 A. M. until 11:30 A. M., trip in, on bottom with 12-1/4" OESV Bit No. 8 at 1:00 P. M., drill with no returns until 12 midnight. (Filling mud tanks with water using 5 small pumps from reservoir to rig. Bit No. 8 still drilling at 12 midnight.

5-31-59
1742-2005'
Dry Drlg.

Drilling with no returns. 12 midnight to 12 noon, 1742' to 1850' (108') dry drill no returns. 12 noon to 12 midnight, 1850' to 2005' (155') dry drill no returns. Drilling and pumping water to mud pits, until 8:15 A.M., survey, trip, back on bottom at 1:15 P.M. (Ream 9:45 A.M. to 1:00 P.M.) with 12-1/4" OWSV Bit No. 9, drill pump water reservoir to rig and wait on water 1 hour until midnight. Bit no. 8 made 290', 19-3/4 hours, 1560' 1850', dry drilling. Bit no. 9 still drilling at midnight.

6-1-59
2005-2110'

Drilling with no returns. 12 midnight to 12 noon, 2005' to 2080', dry drilling. 12 noon to 12 midnight, 2080' to 2110', dry drilling. Dry Drill until 6:30 A. M., trip, rig up to gas blow more water to reservoir. 10:30 A.M. to 11:00 A. M. run ten stands gas blow water to fill reservoir, blow water out of hole with gas until 8:00 P. M., trip, rig up to dry drill, go in with 12-1/4" OWSV, Bit No. 9 to dry drill on bottom at 11:00 P. M. (Ream 50'). Bit No. 9 made 230' 15-1/2 hours, 1850' to 2080', dry drilling, Bit No. 10 still drilling at midnight.

6-2-59
2110-2313'
Set Casing

Drilling with no returns. 12 midnight to 12 noon 2110' to 2313', dry drilling, no returns. 12 noon to 12 midnight, run intermediate casing. Drill with bit no. 10 until 10:00 A. M., trip, rig up to run casing, start running casing at 12 noon on bottom at 9:00 P.M. Ran 76 Joints, 9-5/8", 36#, Range 2, Spang, J-55, 8 round thd. Casing, set at 2311', K.B., cemented with 500 sacks regular cement, plug down at 12 midnight.

6-3-59
2313' ED
WOC

W.O.C.
W.O.C. 12 hours, ran temperature survey, top of cement out side casing, 1511'. Top plug 2222', W.O.C. & nipling up to drill out from under casing.

6-4-59
2313' TD
Drill Plug

W.O.C. cut and slop drilling line.
W.O.C. until 12 midnight, go in hole with 8-3/4" YSI Bit No. 1, Drill plug 11:00 P.M. till midnight, 2222' to 2313'.

- 6-5-59
2313'-2904' Drilling with water. 12 midnight to 12 noon, 2313' (409') Sand and Shale 12 noon to 12 midnight, 2722-2904' (182') Sand and Shale Start drilling out from under casing at midnight, drill until 12:15 P.M., trip, back on bottom with 8-3/4" OWV Bit No. 2 at 3:30 P.M. Still drilling at midnight. Bit No. 1 made 416' - 12 hours, 2313' to 2729', Sand and Shale, Survey at 2700' - 2 Degrees. Water flow came in at approx. 2610', estimate flow at 150 bbls per hour.
- 6-6-59
2904-3208' Drilling with water. 12 midnight to 12 noon, 2904' - 3081' (177') Sand and shale, 12 noon to 12 midnight, 3081-3208' (127') Sand and Shale. Drill until 1:30 A.M. trip, back in with 8-3/4" YSI Bit # 3, Drill until 6:00 P. M., trip, back in hole with 8-3/4" M4N, Bit # 4 at 10:15 P.M., Bit No. 4 still drilling at 12 midnight. Bit # 2 made 242' 9-1/2 hours, 2729' - 2941' Sand and Shale. Bit # 3 made 227' 12 hours, 2941' to 3168', Sand and Shale. Survey at 3168' - 1 1/4 Degree.
- 6-7-59
3208-3672' Drilling with water. 12 midnight to 12 noon, 3208' to 3402', drilling with water, Sand and Shale. 12 noon to 12 midnight, 3402' 3672', drilling with water, Sand. 8-3/4" M4N Bit No. 4, 3168' to 3402', Survey and trip back on bottom with 8-3/4" M4N Bit No. 5, drill 3402' to 3672', still drilling at 12 midnight, Survey at 3370' - 1-1/4 Degree.
- 6-8-59
4126-4303' Drilling with water. 12 midnight to 12 noon, 4126' to 4303', drilling with water, Shale. 12 noon to 12 midnight 4303 T.D., start out of hole at 9:30 A. M. to mud up clean pits, mix mud, casing worked up and hung in BOP work on BOP 6 hours, mix mud, 9-5/8" casing worked up 21" into BOP along with gasiated water flow (approx. 100 BP HR.) 100# Q-Broxin, 200 sacks Baroid, 80 sacks Gel, 100# Caustic, Mud 9.3, Closed BOP to mix mud mashed top of 9-5/8" casing so bit would not go in hole, call welder remove BOP and call out McCullough for spear cut off casing, run in hole with Spear, pull 60,000# tension on casing set slips and cut off, install BOP.
- 6-10-59
4303-4305' Go on hole with 8-3/4" M4N Bit No. 8, displace gasiated water out of hole ream 60' to bottom water flow killed mix more mud after hole displaced, drilling with Bit No. 8 - 4303' to 4305', 60 sacks Gel, 125 Baroid, 2 sacks Q-Broxin, 50# Caustic, Mud 9.7, Vis. 48.,

6-11-59
4308-4460'

Drilling with water and change over to mud. 12 midnight to 12 noon 4305' to 4387', mud sand and shale. 12 noon to 12 midnight 4387' to 4460', mud, sand and Shale. Mix and condition mud, condition hole, Bit No. 8, 4303' to 4409', trip for new bit, go in hole with 8-3/4" YT Bit No. 9, drill with mud 4409' to 4460'. Still on bottom at 12 midnight, mix and condition mud and hole, 4 sacks Sementex, 175 sacks Baroid, 45 Sacks Gel, Mud 9.8, Vis. 43. Mud 10.1, Vis 45, Shaking out Lost Circulation Material. WL-9. Top Wasatch 4314' - 769' Survey at 4382' - 2 Degrees. 114' hight to Ute Trail Unit #1.

6-12-59
4460-4642'

Drilling with mud Wt. 9.9, Vis. 46, CK. 2/32, WL 10. 12 midnight to 12 noon, 4460' to 4556', Sand and Shale. 12 noon to 12 midnight 4556' to 4642', Shale. Bit No. 9 drill to 9:00 A.M., trip back on bottom with 8-3/4" Bit, OWV No. 10. Still drilling at midnight. 35# Caustic, 25# Q-Broxin, 35# Caustic, 25# Q-Broxin Survey at 4656' - 1-1/4 Degree, Survey at 4550 - 2 Degree.

6-13-59
4642-4821'

Drilling with mud Wt. 10, Vis. 48, Ck 2/32, WL 9. 12 mdinight to 12 noon 4642' to 4704' (62') Sand and Shale. 12 noon to 12 midnight, 4704' to 4821' (117') Shale. Drill with Bit # 10 until 4:00 A. M., trip and Survey, back on bottom at 8:30 A. M. with 8-3/4" OSCGI Bit No. 11. Bit No. 10 made 114' Bit No. 11 began drilling at 4670', drilling bit No. 11, drill to 4821', made 15', trip at 10:30 P. M. 35# Caustic, 25 Q-Broxin, 35# Caustic, 25 Q-Broxin, Survey at 4670' - 1-1/4 Degree.

6-14-59
4821-4984'

Drilling with mud, Wt. 10, Vis. 48, Ck. 2/32, WL 9.8 12 midnight to 12 noon, 4821' to 4913' Sand and Shale 12 noon to 12 midnight 4913' to 4984', Sand and Shale. Finish trip back on bottom with 8-3/4" YT Bit No. 12, start drilling at 2:00 A.M., drilling to 3:15 P. M., 12-1/4 hours. Bit No. 12 made 119', trip back on bottom with 8-3/4" YTI Bit No. 13, begin drilling at 7:45 P. M., still drilling at midnight. 35# Caustic, 25# Q-Broxin, 35 Caustic, 25# Q-Broxin, Survey at 4924' - 1/3/4 Degrees, Sand stringer at 4898' to 4906', appears to be wet.

6-15-59
4984-5121'

Drilling with mud, WT. 10.2, Vis. 45, CK 1/32, WL 9.6. 12 midnight to 12 noon, 4984 to 5064' (80') Sand and Shale. 12 noon to 12 midnight, 5064' to 5121' (57') Sand and Shale. Bit No. 13 drill til 4:00 A. M., trip,

slip drilling line, back on bottom with 8-3/4" OVV Bit No. 14 drill til 7:00 P. M., trip out, back on bottom with 8-3/4" OSCIG Bit No. 15 at 11:45 P. M. Bit No. 13 made 79' - 9-1/2 Hours, 4940' to 5019'. Bit No. 14 made 98' 11-1/2 Hours, 5019' to 5117'. Bit No. 15 drilling at 5121 midnight, Sand and Shale. 35# Caustic, 25# Q-Broxin 10 sacks Baroid, 35# Caustic, 25# Q-Broxin, 50# Driscose, 10 sacks Gel, Survey at 4924' - 1-3/4 Degree.

6-16-59
5121-5195'

Drilling with mud Wt. 10.2, Vis. 49, CK 2/32, W.L. 9.6 12 midnight to 12 noon, 5121' to 5195' (74') Sand and Shale. 12 noon to 12 midnight, 5195' to 5195' (0') Sand and Shale. Bit No. 15 drill til 9:00 A. M. Circulate 3/4 hours, trip set Rotary Table out repair bearings, change liners in pump, repair oil lines on Motor. Go back in hole with 8-3/4" TY Bit No. 16, on bottom at 12 midnight. 35# Caustic, 25# Q-Broxin, 10 sacks mud. Mud Wt. 10.2, Vis. 45, CK 1/32, WL 8.

6-17-59
5195-5332'

Drilling with mud, WT 10.2, Vis. 49, CK 2/32, WL 8.4 12 midnight to 12 noon, 5195' to 5266' (71') Sand and Shale. 12 noon to 12 midnight, 5266' to 5332' (86') Sand and Shale. Bit No. 16 drill 12 midnight to 9:00 A.M., circulate and drilling. Made 71', 8-3/4 hours, trip back on bottom at 12:30 P.M. With 8-3/4" OWSV Bit No. 17, still drilling at 12 midnight. Mud. Wt. 10.3 Vis, 40, CK 2/32, WL. 7.8. Mud Wt. 10.1, Vis 45, CK 3/32, W.L. 8. 35# Custic, 25# Q-Broxin, 35# Caustic, 25# Q-Broxin.

6-18-59
5332-5457'

Drilling with mud, WT 10.3, Vis. 45, CK 2/32, WL 8, PH 8. 12 midnight to 12 noon, 5352' to 5387' (35') Shale. 12 noon to 12 midnight, 5387' to 5457' (79') Sand and Shale. Drill til 12:15 A. M. Survey trip at 12:30 A. M., back on bottom with 8-3/4" Security M4N Bit No. 18, drill to 6:00 A. M., repair mud line 6:00 A.M. to 7:00 A. M., resume drilling 7:00 A. M. to 9:00 A. M., Repair mud line 9:00 A. M., to 2:00 P. M , drilling 2:00 P.M. to 10:15 P.M., trip, strap drill pipe out Bit No. 17, made 88' - 11-3/4 Hours, 5266' to 5354' Shale. Bit No. 18 made 103' - 11-1/2 hours, 5354' to 5457', Sand and Shale. 35# Caustic, 25# Q-Broxin, 100# Driscose, 25 sacks Gel, Survey at 5350' - 1-1/2 Degree, Mud Wt. 10.1, Vis. 50, CK. 2/32, Go back in hole with 8-3/4" YSI Bit No. 19.

6-19-59
5457-5504'

Drilling with mud, WT 10.2, Vis. 54, CK 2/32 WL 6.8. 12 midnight to 12 noon, 5457' to 5504' (42') Sand and Shale. 12 noon to 12 midnight, running logs. Finish trip, drill with Bit No. 19. Until 9:45 A.M., circulate 1/2 hour, come out to run logs, out of hole 12 noon. Prepare to run logs. Bit No. 19 made 42' - 6-1/4 hours, 5457' to 5504' Sand and Shale. Mud WT 10, Vis. 51, CK 2/32, WL. 6.8. Finish running lost at 12 midnight. T.D. Driller 5504', T.D. Schlumberger 5507'.

Ran Schlumberger Electric Induction Electric, Sonic and Micro, Log Analysis indicate sand zones at 4900' to 4913', 5005' to 5018', 5130' to 5156, heavy and light water saturation and light to hydrocarbons saturation.

6-20-59
5504'
Correc. to
5507'
5507-5510'

Wait on Orders. Preparing to run DST. Go in hole with 8-3/4" OWV Bit No. 20 to condition hole for DST. Condition hole and made 3' hole 5507' to 5510'. Trip, go in hole with DST No. 1. Packer Set at 4993', Test 4993' to 5510'. 20 minute SIP Initial shut In pressure 945#, Final Shut In pressure 125# - 0. Tool open 1 hour, slight blow throughout test, recovered 1500' gas in Drill pipe, 270' Sl. gas cut mud. FP 2640#, Hy. 2775#, FHY 2640# Start back in hole with Bit No. 20.

6-21-59
5510-5642'

Drilling with mud Wt 10.3 Vis. 50, CK 2/32, WL 9.4. 12 midnight to 12 noon, 5510' to 5591' (81') Sand and Shale. 12 noon to 12 midnight, 5591' to 5642' (51') Sand and Shale. Drilling ahead, Bit No. 20 made 98', 13-3/4 Hours, Sand and Shale. Start trip out at 2:00 P. M. back on bottom with 8-3/4" YTI Bit No. 21 at 6:00 P.M., drilling ahead at 12 midnight. 15 sacks Gel, 35# Caustic, 25# Q-Broxin 35# Caustice, 25# Q-Broxin, Survey at 5602' 1-1/4 Degrees.

6-22-59
5642-5785'

Drilling with mud WT 10.2, Vis. 41, CK 2/32, WL 12.4 PH 7. 12 midnight to 12 noon, 5642' to 5715' (73') Sand and Shale. 12 noon to 12 midnight, 5715' to 5785' (70') Shale Drilling with Bit No. 21 till 9:00 A. M., trip back on bottom with 8-3/4" YTI Bit No. 22 at 8:00 P. M. still drilling at 12 midnight. 10 Sacks Baroid, 35# Caustic 25# Q-Broxin, 35# Caustic, 50# Q-Broxin, 15 sacks Baroid, 50# Driscose.

- 6-23-59
5785-5869' Drilling with mud, WT 10.2, Vis. 41, CK 2/32, WL 12.4
PH 9. 12 midnight to 12 noon, 5785' to 5820' (35') Sand
and shale 12 noon to 12 midnight, 5820' to 5869' (49')
Shale. Drilling with Bit No. 22, til 5:30 A.M. trip
back on bottom with 8-3/4" OWV Bit No. 23 at 11:00 A.M.,
drill with Bit No. 23 til 9:30 P. M., start out of
hole, Bit No. 22 made 102' - 14-1/2 Hours, 5715' to
5817', Bit No. 23 made 52' - 10-1/2 hours, 5817' to
5869'. 35# Caustic, 25# Q-Broxin, 10 sacks Baroid, 1
sack Driscose, 20 sacks Gel.
- 6-24-59
5869-5963' Drilling with mud, WT 10.5, Vis. 53, CK 2/32, WL 11,
PH 9.5. 12 midnight to 12 noon, 5869' to 5918' (49')
Shale. 12 noon to 12 midnight, 5918' to 5963' (48')
Sand and Shale. Back on bottom with 8-3/4" YJT Bit
No. 24 at 1:15 A. M., drill til 1:30 P. M., trip, back
on bottom with 8-3/4" OWV Bit No. 25 at 5:00 P. M. Bit
No. 24 made 65' - 12-1/2 hours (5864' to 5924' Sand and
Shale). Bit No. 25 still drilling at 12 midnight, 35#
Caustic, 25# Q-Broxin, 50# Driscose.
- 6-25-59
5963-6064' Drilling with mud WT. 10.5, Vis. 52. 12 midnight to 12
noon, 5963' to 6017' (54') Sand and Shale. 12 noon to
12 midnight, 6017' to 6064' (47') Shale. Drilling with
Bit No. 25 til 9:30 A. M., trip, back on bottom with
8-3/4" Bit OSCIC No. 26 at 1:30 P. M., still drilling
at 12 midnight. Bit No. 25 made 93' - 16-1/2 Hours,
(5924' to 6017') Sand and Shale. Bit No. 26 still
drilling at 12 midnight. 35# Caustic, 25# Q-Broxin,
10 Sacks Gel, 35# Caustic, 50# Q-Broxin, 50# Driscose,
35# Sacks Baroid.
- 6-26-59
6064-6142' Drilling with mud Wt 10.4, Vis. 47, CK 1/32, WL 8.8,
PH 9.5. 12 midnight to 12 noon 6064 to 6106' (42')
Sand and Shale. 12 noon to 12 midnight, 6106 to 6142'
(38') Shale. Drill til 12:30 A. M. with Bit No. 26,
trip, back on bottom with 8-3/4" M4N Bit No. 27 at
4:00 A. M., drill til 4:30 P. M., trip, back on bottom
with 8-3/4" OW Bit No. 28 at 8:00 P. M., Bit No. 26
made 50' - 11 hours, 6017' to 6167' (50') Sand and shale.
Bit No. 27 made 56' - 12-1/2 hours, 6067' to 6123'
Shale. 35# Caustic, 25# Q-Broxin, 15 sacks Gel, 10 sacks
Baroid, 50# Driscose, 35# Caustic, 50# Q-Broxin, 1 sack
Driscose, Bit No. 28 still drilling at midnight.

6-27-59
6142-6223'

Drilling with mud WT 10.5, Vis. 47, WL 8.8, CK 1/32, PH 9.5. 12 midnight to 12 noon, 6142' to 6184' (42') Sand and Shale. 12 noon to 12 midnight, 6184' to 6223' (39') Shale. Drilling with Bit No. 28, till 9:00 A.M., Trip, back on bottom with 8-3/4" OWV Bit No. 29, 1:15 P.M., still drilling at midnight, Bit No. 28 made 28' 13 hours, Sand. #53 Caustic, 50# Q-Broxin, 35# Casutic 50# Q-Broxin, Mud Wt. 10.4, Vis. 50, CK 2/32, WL 8.5.

6-28-59
6223-b286'

Drilling with mud, WT. 10.4, Vis. 56, CK 2/32, WL 10 PH 9. 12 midnight to 12 noon, 6223' to 6259' (36') Sand and Shale. 12 noon to 12 midnight, 6259' to 6286' (27') Sand. Drilling with Bit No. 29 til 12:30 A.M., trip, back on bottom with 8-3/4" OWV Bit No. 30 at 4:30 A. M., Drilling 12 noon to 1:30 P. M., Pack Swivel, drill to 7:30 P. M., trip, go back in hole with 8-3/4" OWV Bit No. 31, on bottom at 11:00 P. M., Bit NO. 29 made 39" - 11-1/4 hours, 6184' to 6223' Sand and Shale. Bit No. 30 made 57' - 13-1/2.hours, 6223' to 6280' Sand. 35# Caustic, 50# Q-Broxin, 1 Sack Driscose, 10 sacks Baroid, 35# Caustic, 50# Q-Broxin, 10 Sacks Baroid.

6-29-59
6286-6387'

Drilling with mud, WT. 10.6, Vis. 50, CK 2/32, WL 8.8 PH 9. 12 midnight to 12 onno, 6286' to 6348' (62') Sand, Shale and Lime, 12 noon to 12 midnight, 6348' to 6387' (39') Sand Shale and Lime, Drill with Bit No. 31 til 2:00 P. M., trip, slip drilling line, back on bottom with 8-3/4" YT Bit No. 32 at 6:30 P. M., still drilling at midnight. Bit No. 31 made 78' - 15 hours 6280' to 6358' Sand, Shale and Lime, Bit No. 32 still drilling at midnight. 35# Caustic, 50# Q-Broxin, 50# Driscose, 35# Caustic, 50# Q-Broxin, 10 Sacks Baroid, 1 Sack Driscose.

6-30-59
6387-6481'

Drilling with mud, WT. 10.5, Vis. 51, CK 2/32, WL 8.4, PH 9.5. 12 midnight to 12 noon, 6387' to 6430' (44') Sand. 12 noon to 12 midnight, 6430' to 6481' (51') Sand and Shale. Drilling with Bit No. 32 til 9:15 A. M., trip, back on bottom with 8-3/4" YT Bit No. 33 at 1:00 P.M., Bit No. 32 made 72' - 14-3/4 hours, 6358' to 6430' Sand, Bit No. 33 making footage and still drilling at 12 midnight. 35# Caustic, 50# Q-Broxin, 50# Driscose, 35# Caustic, 50# Q-Broxin, 50# Driscose.

7-1-59
6481-6527'

Drilling with mud, WT 10.6 Vis. 50, CK 2/32, WL 8.8, PH 9.
12 midnight to 12 noon, 6481' to 6515' (35') Sand and Shale.
12 noon to 12 midnight, 6515' to 6527' (12') Sand and
shale. Bit No. 33 Drilling til 1:00 A. M., trip, repair
rot chain, back on bottom with 8-3/4" M4N Bit No. 44 at
6:00 A. M. Drill til 9:00 A. M., Circulate samples
3/4 hour, drill til 3:00 P. M., trip unstringing bbcks,
stringing up big blowks with/8 lines at 12 midnight. Bit
No 33 made 55', 12 hours, 6430' to 6485' Sand and Shale.
35# Caustic, 50# Q-Broxin, 10 sacks Baroid, Bit No. 34
made 42' - 8 hours, 6485' to 6528' Sand and Shale.

7-2-59
6527-6608'

Drilling with mud, Wt 10.4, Vis. 42, CK 2/32, WL 9.8 PH
10.5. 12 midnight to 12 noon 6527' to 6577', (50') Sand
Shale and Lime. 12 noon to 12 midnight, 6577' to 6608'
Sand and Shale. Start in hole with 8-3/4" OWV Bit No.
35 at 12 midnight, on bottom at 1:45 A. M., drill til
2:45 P. M., trip, pick up IDC back on bottom with 8-3/4"
OWV Bit No. 36 at 8:00 P. M., still drilling at 12
midnight. Bit No. 35 made 62' - 13 hours, 6527-6589'
Sand and Shale. Run 32,000# on bit, 50# Driscose, 25#
Caustic, 25# Q-Broxin, 10 sacks Baroid.

7-3-59
6608-6688'
DST #2

Drilling with mud, WT. 10.5, Vis. 53, CK 2/32, WL 10.0
PH 8.5. 12 midnight to 12 noon, 6608' to 6688' (80')
Sand and Shale. 12 noon to 12 midnight, 6688' to 6688'
DST # 2. Drill til 10:00 A. M., Circulate 45 minutes,
drill till 12 noon, circulation and condition hole til
1:30 P. M., trip, go in hole with DST (Johnson Testers)
on bottom with DST at 7:00 P. M. Test 6620' to 6688',
Tool open 1 hour. LSP - 1350#, IF 105#, ISIP 330#,
FF 105#, I HY 3596#, F HY 3503#, FF 97#, SSIP 346#,
Recovered 105' Gas Cut Mud, fair blow throughout test,
trip out with DST tool. Out of hole with DST Tool at
11:30 P. M., lay down DST Tools, Bit No. 36 made 99'
14-1/2 hours, 6589' to 6688'. Sand. 25# Caustic, 50#
Q-Broxin, 25# Soda Ash, 1 Sack Driscose, 35# Caustic,
50# Q-Broxin, 21 Sacks Gel, 50# Driscose.

7-4-59
6688-6739'

Drilling with mud, WT 10.6, Vis. 50, CK 5/32, WL 8.8 PH
10. 12 midnight til 12 noon, 6688' to 6725' (37') Shale
12 noon to 12 midnight, 6725' to 6739' (14') Sand Shale.
Lay down DST Tool, go in hole bottom with 8-3/4" OWC,
Bit No. 37, drill til 11:15 A. M., work on pump 45 minutes
drill til 2:15 P. M., Circulate and condition hole til
8:00 P. M., Trip out, start in hole with core barrel,
11:00 P. M., 50# Q-Broxin, 25# Caustic, 25# Soda Ash, 1
Sack Driscose, 50# Q-Broxin, 25# Caustic, 25# Soda Ash,
3 sacks, Driscose, 4 sacks perservitive. Mud WT. 10.6
Vis. 54, CK 2.32, WL 8.8, PH. 10.5.

7-5-59
6739-6770'
Core and
DST #3

Drilling with mud, WT 10.6, Vis. 68, CK 2/32, WL 9.6, PH 9.5. 12 midnight to 12 noon 6739' to 6763' (Coring 24') Sand and Shale. 12 noon to 12 midnight, 6763' to 6770' (DST & Drill 7') Sand and Shale. Finish trip on bottom with Core Barrel at 1:30 A. M., core drill until 4:30 A. M., trip, out recovered 24' of core. Wait on orders 8:00 A. M. until 9:00 A. M., trip in on bottom with DST # 3 at 12:30 P. M., test 6731' to 6763'. ISIP 30 minutes, Final SI 30 minutes, tool open 1 hour, Recovered 150' slightly Gas Cut Mud. I HY 3610#, ISIP 0#, IF 95#, Final Flow 95#, Final Shut In 230#, Final Hy. 3610#. Trip out, break down DST Tools, trip on bottom with 8-3/4" OW Bit No. 38, (After reaming 8:00 P. M. to 10:45 P.M.) at 10:45 P. M., still drilling at midnight. 35# Caustic, 50# Q-Broxin, 50# Q-Broxin, 25# Caustic.

7-6-59
6770-6838'

Drilling with mud, WT 10.5, Vis. 55, CK. 2/32, WL 9.0, PH 9.5. 12 midnight to 12 noon, 6770' to 6802' (32') Shale and Sand. 12 noon to 12 midnight, 6802' to 6838' (36') Shale and Sand. Drilling til 5:00 A. M., trip, jet 50 bbls mud from pits back on bottom at 9:00 A. M., with 8-3/4" OW Bit No. 39. Drill until 2:30 P. M., trip, back on bottom (ream 1 hour 6784' to 6809') with 8-3/4" YSI Bit No. 40 at 8:00 P. M. still drilling at 12 midnight. Bit No. 38 made a total of 25' - 5-1/2 hours, 6763' to 6788' Sand and shale. Bit No. 39 made 21' 5-1/2 hours, 6788' to 6809' Sand and Shale. Bit No. 40 still drilling at 12 midnight. 25# Caustic, 50# Q-Broxin 1 Sack Driscose, 25# Caustic, 100# Q-Broxin, 50# Driscose.

7-7-59
6836-6884'
7' Drill
39' Core #
2, DST #4

Drilling with mud, WT 10.2, Vis. 56, CK 2/32 WL 6.4, PH 9.5. 12 midnight to 12 noon, 6838' - 6884' (46') 7' drill 39' Core Sand and Shale, 12 noon to 12 midnight, DST #4 at 6840'. Circulate 12:00 midnight, to 1245 A. M. at 6840', drill 1/2 hour, circulate 3/4 hour at 6845', trip out of hole pick up core barrel, back on bottom with core barrel # 2 at 6:45 A. M., Core 6845' to 6884' until 10:45 A. M. Recover 39' core, tight salt and pepper sand, no visual porosity, no permeability, back on bottom with DST #4 at 4:30 P. M., test 6828' yo 6884'. I Hy 3710#, F HY 3635#, ISI 1030# - 30 minutes, IF 115# FFP 115#, FSIP 605# - 30 minutes. Recovered 170' Gas Cut mud, tool open 1 hour. Slight blow throughout test. Trip out start back in hole with 8-3/4" M4N Bit No. 41. 1 Sack Q-Broxin, 10 bbls. Diesel Oil in mud, Bit No. 40 made 36' - 11-1/4 hours, 6809' to 6845' Sand and Shale.

7-8-59
6884-6989'

Drilling with mud, WT 10.2, Vis. 50, CK 2/32, WL 6.2, PH 9.5. 12 midnight to 12 noon, 6884' to 6942' (52') Ream hole, Sand and Shale. 12 noon to 12 midnight 6942' to 6989' (47') Sand and Shale. Finish trip, ream core hole 6845' to 6884', 1:00 A. M. til 3:30 A. M., drill 3:30 A. M. until 5:45 A. M., circulate 5:45 A. M. to 7:15 A. M., Drill 7:15 A. M. until 2:00 P. M., trip, back on bottom with 8-3/4" M4N Bit No. 42 at 7:30 P. M., still drilling at 12 midnight. 25# Caustic, 2 sacks Q-Broxin 100 sacks, Baroid, 50# Driscose, 10 bbls. Diesel in mud, 25# Caustic, 75# Q-Broxin, 10 sacks Baroid, drilling with 44,000# on Bit. Bit No. 41 made 72' - 9 hours, 6884' to 6956', Sand and Shale.

7-9-59
6989-7005'
Total Depth

Drilling with mud, WT 10.4, Vis. 60, CK 2/32, WL 6.8, PH 11. 12 midnight to 12 noon, 6989' to 7005' (16') Sandy Shale. 12 noon to 12 midnight, Schlumberger Logs. Drill until 2:00 A. M., Circulate at 7005', wait on Schlumberger Start trip out at 10:45 A. M, start logs at 2:00 P. M., still logging at midnight.

7-10-59
7005' M.D.

Drilling with mud, out of hole with Electric Logs at 12 midnight, Run Micso, Induction and Sonic Logs. 12 midnight to 1:00 A. M. spotted 15 sacks regular cement plug at bottom of intermediate String 2320' to 2283'. Top of Plug at 2283'. Rig released at 2:30 A. M.

7-11-59

Temporarily Abandoned, Rigging Down Rotary

7-12-59

Moving off Rotary.

7-13-59

Moving off Rotary, to Ute Trail Unit Well # 3.

OPERATOR: DEKALB AGRICULTURAL ASSOCIATION, INC.

WELL: # 2 Ute Trail Unit

LEASE: U-01196

LOCATION: 660 FNL, 660 FEL, Section 17, T10S, R22E (SLM)
Uintah County, Utah

ELEVATION: 5072' GL; 5083' KB

COMMENCED: May 18, 1959 at 3:00 P.M.

SET SURFACE: May 20, 1959 at 2:15 A.M.

FROM UNDER SURFACE: May 22, 1959 at 9:15 A.M.

REACHED TOTAL DEPTH: July 9, 1959

COMPLETED: July 10, 1959, Temporarily Abandoned

TOTAL DEPTH: 7005' Driller, 7003' Schlumberger

LITHOLOGY BY: M. C. Johnson

CASING: SURFACE: Set 13-3/8", 48#, J-55 csg at 167' KB with
175 sxs cement plus 2% CaCl.

INTERMEDIATE: Set 9-5/8", 36#, J-55 csg at 2311' KB with
500 sxs cement.

PRODUCTION: Temporarily Abandoned.

PERFORATIONS: None

PRODUCTION: None (September 1959)

HOLE SIZE: Drilled 12-1/4" pilot hole to 187'; reamed to 17-1/2"
hole to 169'.
Drilled 12-1/4" hole from under surface casing to 187'.
Drilled 8-3/4" hole from under intermediate casing to
7005'.

CONTRACTOR: Miracle & Wooster Drilling Company

TYPE RIG: Unit - 15

FORMATION TOPS FROM ELECTRIC LOG:

Green River 1100'
Wasatch 4318'
Total Depth 7003'

LOGS:

SCHLUMBERGER: Electric Log 2311 to 7002'
Induction-Electric 2311 to 7003'
Sonic-ES 2311 to 6999'
Micro-Log 2311 to 7702'

Continental Laboratories Mud Log 169 to 7005'
Lithologic Strip Log 169 to 7005'
McCullough Temperature Log, 0 to 2226'

DRILLING TIME: Two foot drilling time was maintained from 169 to 7005'

SAMPLE PROGRAM: Ten foot samples were caught from surface to total depth, although, 5 foot samples were caught through zones of interest and one foot throughout cores.

CORES:

Core # 1: 6739 - 6763½' Cut 24½' Recovered 24½'
Core # 2: 6845 - 6884' Cut 39' Recovered 39'
Core Description with lithology.

DRILL STEM TESTS:

DST # 1 - 5000 to 5510', Packers set at 4996' and 5000'. Anchoring device set at 5020'. Initial Shut In 20 minutes, Tool open 60 minutes. Slight blow throughout test. Recovered 1500' gas in drill pipe and 270' GCM. ISIP 977#, FSIP None, IFP 185#, FFP 131#, HP 2728# - 2663#.

DST # 2 - 6620 to 6688', Double packers, (6616' & 6620'), ISI 30", Tool open 60", fair blow throughout test. Recovered 105' GCDM. ISIP 1282#, FSIP 346#, IFP 97#, FFP 97#, IHP 3631#, FHP 3503#.

DST # 3 - 6731 to 6763', Double packers (6735' & 6739') Initial shut in 30" Tool open 60", fair blow throughout test. Recovered 150' GCM, 30" FSI, ISIP 744# FSIP 248, IFP 103#, FFP 103#, IHP 3576#, FHP 3609#.

DST # 4, 6828 to 6884', Double packers (6823' & 6828') ISI 30", Tool open 60" medium blow throughout test. Recovered 170' GCM, 30" FSI, ISIP 1508#, FSIP 622#, IFP 131#, FFP 127#, IHP 3726#, FHP 3659#

MUD PROGRAM:

Clear water was used to drill from under surface casing to 4300 feet. A zone 1554 to 2313' was dry drilled with the use of 5 water pumps. The drilling medium was converted from water to mud at 4300 feet. Chemicals barite, and gel was used to total depth.

LOST CIRCULATION ZONES:

A minor loss circulation zone was encountered at 1250 feet. However, at 1550' to 2313' unable to regain returns even with the use of heavy concentration of lost circulation material. Dry drilled through this zone and set intermediate casing at 2313'. No loss circulation zones were encountered below this depth.

OIL AND GAS SHOWS:

Several scattered minor zones of residual oil were encountered in the basal Uinta formation as well as throughout the Green River formation. A thin well stained sandstone was encountered at 3638'. Minor gas shows were noted on the mud analyzer and in cores at the following zones:

4900-4912'
5133-5155'
6626-6684'
6730-6765'
6830-6910'

At the present time it is questionable whether or not the above zones would warrant the costs of a completion attempt.

SLOPE TESTS:

60' - 0°	3721' - 1-3/4°
200' - 0°	4415' - 2°
483' - 3/4°	4546' - 2°
754' - 1°	4656' - 1-1/4°
1100' - 1°	4924' - 1-3/4°
1287' - 1°	5862' - 1-1/2°
1400' - 1°	5602' - 1-1/2°
1850' - 1°	5864' - 1-1/4°
2700' - 2°	5869' - 1-1/4°
2940' - 1-1/2°	6199' - 1-1/4°
3370' - 1-1/4°	6561' - 1°
	6584' - 1°

BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH		FEET	HOURS
				FROM	TO		
1	13-3/4"	HTC	OSC		126	126	
2	12-1/4"	SEC	M4N		167		
3	12-1/4"	HTC	OSC-3	261	912	651	16-3/4
4	12-1/4"	SEC	S-3	818	1153	335	12
5	12-1/4"	REED	YT-1	1153	1270	117	6-3/4
6	12-1/4"	REED	YT-1	1270	1329	59	8-1/2
7	12-1/4"	HTC	OSC	1329	1435	106	9-1/2
8	12-1/4"	SEC	S-4	1435	1560	125	4-1/2
9	12-1/4"	HTC	OWSV	1560	1850	290	19-3/4
10	12-1/4"	HTC	OWSV	1850	2080	230	15-1/2
11	12-1/4"	HTC	OWSV	2080	2312	232	9-1/2
12	8-3/4"	REED	YS-1	2312	2729	417	12
13	8-3/4"	HTC	OWV	2729	2941	212	9-1/2
14	8-3/4"	REED	YS-1	2941	3168	227	12
15	8-3/4"	SEC	M4N	3168	3402	234	10-1/4
16	8-3/4"	SEC	M4N	3402	3721	319	13
17	8-3/4"	HTC	OWV	3721	4081	360	13
18	8-3/4"	HTC	OWV-1	4081	4303	222	10-1/4
19	8-3/4"	SEC	M4N	4303	4409	106	9-3/4
20	8-3/4"	REED	YT	4409	4556	147	13-3/4
21	8-3/4"	HTC	OWV	4556	4670	114	14-3/4
22	8-3/4"	HTC	OSC-1G	4670	4821	151	14
23	8-3/4"	REED	YT	4821	4940	119	12-1/4
24	8-3/4"	REED	YT-12	4940	5019	79	9-1/2
25	8-3/4"	HTC	OWV	5019	5117	98	11-1/2
26	8-3/4"	HTC	OSC-1G	5117	5195	78	9-3/4
27	8-3/4"	REED	YTJ	5195	5266	71	8-3/4
28	8-3/4"	HTC	OWVJ	5266	5354	88	11-3/4
29	8-3/4"	SEC	M4N	5354	5457	103	11-1/2
30	8-3/4"	REED	YS-1	5457	5504	47	6-1/4
31	8-3/4"	HTC	OWV	5504	5602	98	13-3/4
32	8-3/4"	REED	YT-1	5602	5715	113	16-3/4
33	8-3/4"	REED	YT-1	5715	5817	102	14-1/2
34	8-3/4"	HTC	OWV	5817	5869	52	10-1/2
35	8-3/4"	REED	YT	5869	5924	55	11-1/2
36	8-3/4"	HTC	OWV	5924	6017	93	16-1/2
37	8-3/4"	HTC	OSC-1G	6017	6067	50	11
38	8-3/4"	SEC	M4N	6067	6123	56	12-1/2
39	8-3/4"	HTC	OW	6123	6184	61	13
40	8-3/4"	HTC	OWV	6184	6223	39	10-3/4
41	8-3/4"	HTC	OWV	6223	6280	57	13-1/2
42	8-3/4"	HTC	OWV	6280	6358	78	15
43	8-3/4"	REED	YT	6358	6430	72	14-3/4

BIT RECORD (CONT.)

<u>NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH</u>		<u>FEET</u>	<u>HOURS</u>
				<u>FROM</u>	<u>TO</u>		
44	8-3/4"	REED	YT	6430	6485	55	12
45	8-3/4"	SEC	M4N	6485	6527	42	8
46	8-3/4"	HTC	OWV	6527	6589	62	13
47	8-3/4"	HTC	OWV	6589	6688	99	14-1/4
48	8-3/4"	HTC	OWV	6688	6739	51	10-3/4
49	8-3/4"	CHRIS	DIA	6739	6763	24	2-1/2
50	8-3/4"	HTC	OW	6763	6788	25	5-1/2
51	8-3/4"	HTC	OW	6788	6809	21	5-1/2
52	8-3/4"	REED	YS-1	6809	6845	36	11-1/2
53	6-1/8"	CHRIS	DIA	6845	6885	40	
54	8-3/4"	SEC	M4N		7005		

DEKALB NO. 2, UTE TRAIL UNIT

- 170-80 Shale siltstone, light gray-lavender, light purple slightly green-purple, slightly micaceous, slightly calcareous, very firm, tite, trace sandy inclusions.
- 180-90 Shale light gray-purple, light purple, light green-purple, light green, slightly calcareous firm, sub-waxy lustre, slightly bentonite, scattered silty inclusions.
- 190-200 Sandstone, light gray, trace light green-gray, very fine to medium grained, angular to sub-rounded, clear frosted occasional very light pink quartz grain, with trace chert, light gray to black, trace feldspar, mica and green accessory mineral, calcareous firm, tite with slightly argillaceous matrix, no apparent porosity.
- 200-10 Sandstone siltstone, very red-purple, lavender to rusty red, trace green, very fine to fine grained, calcareous slightly micro micaceous, argillaceous firm, tite, trace red-purple shale.
- 210-20 Siltstone, and sandstone as above with good trace shale red-purple, red-green, green, gray-green, firm, sub-waxy lustre, bentonite, trace limestone concrec, buff, light green, den argillaceous.
- 220-30 Sandstone, light buff, light red-buff, slightly salt and pepper, fine to medium fine angular to sub-rounded clear, frosted, orange quartz, grains, trace black, light gray, red chert grains, trace micro-mica, calcareous, slightly bentonite, very firm hard tite, trace siltstone, and shale as above.
- 230-40 Siltstone, sandstone, very light gray, light buff, light green-buff, light green, very fine grained, with trace fine to medium grained, angular to sub-angular clear frosted occasional light orange quartz grain, trace black, light gray, tan to orange red chert grains, calcareous, slightly argillaceous firm, hard tite with fair trace interbedded, green, gray-green, slightly calcareous sub-waxy shale.
- 240-50 Sandstone, light tan, gray-tan, fine to coarse grained, and to sub-rounded, clear frosted amber, light orange quartz grains, trace black gray, tan chert grains, trace feldspar trace mica, poorly sorted, slightly calcareous friable good porosity, good light brown to orange-brown oil stain, trace light orange-brown oil globules, hi pour point oil slightly petro-odor, good yellow fluorescence and cut with CCl₄, appears water wet.
- 250-60 Siltstone, sandstone, light gray, light green-gray, very fine grained, very argillaceous, bentonite, slightly calcareous, trace sandstone as above trace light green shale.

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- 260-70 Siltstone, sandstone as above with trace sandstone light buff, light tan-buff, very fine grained, calcareous hard tite with trace gray-green, light green shale, silty, slightly calcareous.
- 270-80 Siltstone, shale, brite green, green-gray, slightly bentonite, very sandy, trace sandstone white green, very fine to fine grained, argillaceous micaceous, trace very poor porosity.
- 280-90 Siltstone, sandstone very light green, light green-gray, light buff, very light purple, buff, very fine grained calcareous argillaceous, firm tite, trace shale green, calcareous.
- 290-300 Sandstone, light green-gray, light green, buff-green, fine to medium grained with occasional coarse grain, angular to sub-rounded, clear frosted light orange with trace black gray, tan, red chert grains trace black and green accessory mineral, trace mica, slightly calcareous argillaceous, firm to friable with scattered trace poor porosity scattered trace light orange tan oil stain blue-yellow fluorescence, slightly cut with CCl₄, trace shale light to brite green, sub-waxy bentonite.
- 300-10 Siltstone, sandstone, light gray, light green-gray, buff, very fine grained slightly calcareous very argillaceous, micaceous.
- 310-20 Siltstone, sandstone as above with shale light gray-tan firm, blocky with silty streaks slightly micaceous trace green shale inclusions.
- 320-30 Siltstone, light gray-green, calcareous, micaceous slightly argillaceous with very sandy streaks, trace shale green, micaceous, firm.
- 330-40 Shale, green, light gray-green, firm blocky, silty micro-micaceous, very slightly calcareous, scattered very sandy inclusions.
- 340-50 Interbedded shale as above and siltstone, light gray, light gray-green, micaceous slightly argillaceous, calcareous.
- 350-60 Sandstone, tan, buff, light gray, fine to medium grained with occasional very coarse grain, angular to sub-rounded clear, frosted, amber very light orange quartz grains, with trace black, gray, tan chert grains, trace fedspar trace mica, very slightly calcareous, poorly sorted, with kaolinitic matrix friable scattered fair porosity 90% light brown, light orange-brown oil stained, good yellow fluorescence and cut, trace orange brown oil globules trace light to medium grain, bentonite shale.

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- 360-70 Shale, very light to dark green, gray-green, buff tan, firm, blocky, slightly calcareous micro-micaceous with trace sandstone, very light gray, fine to medium grained calcareous trace sandstone as above trace gray-tan, argillaceous dolomite.
- 370-80 Siltstone, sandstone, buff-white, buff very fine grained very calcareous, clayey matrix, micro-micaceous, trace pyrite trace green shale as above.
- 380-90 Siltstone, sandstone as above.
- 390-400 Siltstone and sandstone as above with trace sandstone, buff very light gray, medium grained, sub-angular to sub-rounded, quartz and trace chert grained calcareous slightly bentonite, firm to friable with weak trace very poor porosity, trace light brown oil stain trace light green-gray, bentonite shale.
- 400-10 Shale light gray, light green-gray, light tan-gray, tan, very silty, micro micaceous.
- 410-20 Siltstone, shale very light gray very light green-gray buff, very calcareous, firm, micro-mica, bentonite.
- 420-30 Siltstone and shale as above.
- 430-40 Siltstone and shale as above becoming predominately siltstone.
- 440-50 Shale light gray, gray, very sandy, and silty, micro-micaceous, calcareous, trace buff limestone fragments.
- 460-70 Shale as above very sandy and silty micro-micaceous, calcareous.
- 470-80 Shale as above very sandy and silty, micro-micaceous, calcareous, trace pyrite.
- 480-90 Sandstone, light gray, light green-gray, fine to medium grained angular to sub-rounded, clear frosted quartz grains, trace black and gray chert grains, calcareous micro-micaceous very argillaceous bentonite with scattered trace very poor porosity with very scattered to light brown oil stain, fluorescence and cuts with CCl_4 trace pyrite.
- 490-500 Sandstone as above brown oil stain fluorescence and cuts with CCl_4 trace pyrite.
- 500-10 Sandstone as above brown oil stain, fluorescence and cuts with CCl_4 trace pyrite.
- 510-20 Sandstone as above with fair trace limestone light cream-tan, crypto to micro-xln, with sandy and shaly inclusions trace pyrite, no fluorescence.
- 520-30 Shale siltstone, very light gray, very light green-gray, calcareous, micro-micaceous, scattered trace medium quartz grains, trace pyrite trace spotted oil stain, weak trace cream-tan den limestone.

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- 530-40 Shale, gray, gray-tan, blocky, firm brittle, limu to dolomitic, buff-yellow fluorescence no cut with CCl₄
- 540-50 Shale, light green-gray, calcareous firm, very silty micro-micaceous, trace rusty-purple silty shale,
- 550-60 Shale, siltstone, light gray, light green-gray, micro micaceous argillaceous, calcareous, trace pyrite, trace rusty-red and green, sub-waxy lustre.
- 560-70 Siltstone, sandstone, light gree-gray, light gray, very fine grained, very argillaceous calcareous trace gray-green, calcareous shale, trace pyrite.
- 570-80 Silstone sandstone and shale as above weak trace rusty red, calcareous silty shale.
- 580-90 Interbedded light green-gray, sub-fissile to blocky, calcareous firm shale, and siltstone light gray, light green-gray, calcareous argillaceous micro-micaceous weak trace rusty-red, red purple silty shale.
- 590-600 Interbedded siltstone and shale as above trace pyrite.
- 600-10 Shale and siltstone as above with sandstone tan, light gray, salt and pepper, fine to medium grained, angular to sub-rounded, clear frosted amber very light orange quartz grains with trace gray, tan, black chert grains trace feld, micro-micaceous kaolinitic?, fair sorting, friable to firm with scattered poor porosity 40% light brown oil stained, good cut and yellow fluorescence trace black gilsonitic inclusions.
- 610-20 Shale, light gray, light green gray, firm, calcareous with silty streaks, trace limestone cream-tan, den trace sandstone as above.
- 620-30 Shale, light gray, green-gray firm, calcareous, blocky, with silty streaks, micro-micaceous.
- 630-40 Shale as above with occasional sandy inclusions.
- 640-50 Shale as above becoming very sandy, trace light buff den limestone nodules, trace pyrite.
- 650-60 Shale, light gray, light green-gray, firm, blocky, calcareous, slightly micro-micaceous with very scattered silty streaks.
- 660-70 Shale as above becoming predominately siltstone, sandstone, light green-gray, very fine grained, argillaceous with scattered black to very dark brown, waffer thin gilsonitic and carbonaceous inclusions.
- 670-80 Interbedded shale and siltstone with sandy streaks as above.
- 680-90 Interbedded shale and siltstone with sandy steaks as above trace shale, ovice tan, firm, brittle dolomite, to limy micro-micaceous.
- 690-700 Same as above only more sandy weak trace black to brown black gilsonite.

DEKALB NO. 2 UTE TRAIL UNIT

- 700-10 Siltstone, sandstone light green, light gray-green, very fine grained, argillaceous, calcareous, with scattered black gilsonitic streaks trace tan to brown, dolomite oil shale, fissile, firm.
- 710-20 Shale, very light green, buff-green, light green-gray firm blocky, calcareous, slightly micro-micaceous, trace pyrite scattered silty to sandy inclusions, trace rusty-red, brown, red-purple silty shale.
- 720-30 Sandstone, light gray, light green-gray, very fine to fine grained, with scattering streaks, argillaceous, calcareous, micro-micaceous with scattered waffle thin gilsonitic streaks,
- 730-40 Sandstone as above with trace interbedded light tan, olive-tan, silty, dolomite to limy oil shale, slightly mineral fluorescence.
- 740-50 Siltstone, sandstone as above with increase in oil shale, trace brown oil along frac.
- 750-60 Interbedded siltstone sandstone as above with shale, very dark brown, brown tan, firm sub-blocky, dolomite micro micaceous no fluorescence very scattered weak trace brown oil stain.
- 760-70 Sandstone, siltstone, light gray, buff, white, slightly micro-micaceous slightly calcareous with white kaolinitic cement.
- 770-80 Sandstone white, very light gray-white, very fine to fine grained, angular to sub-angular quartz grains, trace micro-mica, copious white kaolinite? cement, slightly calcareous, trace pyrite.
- 780-90 Sandstone as above with trace shale, very light tan, cream-tan, sub-waxy, calcareous, to dolomite, good bright yellow fluorescence very slight cut with CCl_4 , trace light green, light gray-green shale.
- 790-800 Sandstone, white, light gray, orange-brown, fine to medium grained, angular to sub-rounded, clear frosted very light orange amber quartz grains, with trace black, light gray, tan, chert grains, slightly micro micaceous, slightly calcareous, kaolinitic, poorly sorted, with scattered friable streaks trace very poor porosity with scattered yellow-orange, orange-brown oil stain, good cut with CCl_4 , 20-30% sorted.
- 800-10 Siltstone, sandstone, very light gray, very light green-gray, white, buff, very fine grained, fine grained kaolinitic slightly argillaceous very calcareous, friable to firm with scattered very poor porosity, with scattered orange-brown oil stain 20% pieces stained, trace brown to orange-brown oil globules, fair trace very light gray-green, silty shale.

DEKALB NO. 2 UTE TRAIL UNIT

- 810-20 Siltstone, sandstone as above becoming less stained, trace brown, oil shale trace pyrite.
- 820-30 Shale, light tan, tan, olive-tan, firm, brittle, dolomite with calcite filled veinlets, yellow-tan fluorescence, slightly cut with CCl_4 , fair trace siltstone, sandstone and shale as above.
- 830-40 Shale very light green, very light green-gray, buff-gray very silty slightly calcareous, slightly micro-micaceous trace light tan oil shale occasional piece siltstone oil stained.
- 840-50 Siltstone and shale as above occasional piece siltstone brown oil stained.
- 850-60 Siltstone and shale as above occasional piece siltstone brown oil stained, trace tan oil shale.
- 860-70 Siltstone, sandstone, white, very light gray, very fine grained, calcareous slightly argillaceous, kaolinitic, trace poor porosity trace oil stain (10%) trace shale, light tan, olive tan, dolomite, firm, sub-blocky.
- 870-80 Siltstone, sandstone as above with weak trace shale.
- 880-90 Siltstone, sandstone as above with weak trace tan, brown oil shale.

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- 890-900 Siltstone, sandstone very light gray, very light green-gray, very fine to fine grained, angular to sub-rounded clear frosted, trace very light pink and orange, quartz grains, trace light gray, black chert grains, trace green and black accessory mineral, micro-mica, calcareous friable trace black and brown carbonaceous inclusions, trace pyrite, very scattered occasional piece with brown oil stain, trace light gray-green, shale inclusions.
- 900-10 Siltstone, sandstone as above slightly increase in light gray shale.
- 910-20 Siltstone and sandstone as above.
- 920-30 Siltstone, sandstone as above with increase in light tan light gray-tan, siltstone, shale.
- 930-40 Siltstone, sandstone as above with fair trace shale light gray-brown, gray, tan, tan, firm dolomite slightly silty, slightly micro-micaceous, scattered yellow fluorescence very scattered slightly cut with CCl_4 .
- 940-50 Siltstone, sandstone as above with trace shale.
- 950-60 Siltstone, sandstone as above with fair trace brown, gray brown, tan, micro-micaceous, slightly silty dolomitic oil shale, trace calcareous along fractures trace pyrite.
- 960-70 Shale as above with fair trace siltstone and sandstone.
- 970-80 Shale as above with fair trace siltstone and sandstone, with very scattered brown oil stain.

DEKALB NO. 2 UTE TRAIL UNIT

- 980-90 Dolomite shale, light gray, light gray-tan, micro-
xln, with yellow fluorescence, trace siltstone, and
sandstone light gray, light green, gray, very fine,
fine grained, argillaceous, calcareous.
- 990-1000 Siltstone, sandstone, light gray, slightly salt and
pepper, very fine, fine grained, angular to sub-rounded
clear frosted trace amber and light orange quartz
grains, trace black and gray chert grains, micro-
micaceous, calcareous, kaolinitic, slightly argillaceous
friable trace carbonaceous inclusions trace dead oil
stain, very weak trace tan oil shale.
- 1000-10 Siltstone sandstone as above with occasional trace
brown oil stain with trace dolomite, light buff-tan
earthy.
- 1010-20 Siltstone, sandstone as above with fair trace dolomite
light buff-tan, earthy trace shale, light green-gray
with copious white specks.
- 1020-30 Dolomite limestone very light tan, light amber-tan,
crypto to micro-kin, slightly argillaceous firm, tite,
greasy appearance, no fluorescence or cut, trace buff
light gray, light green-gray, firm, very slightly
calcareous shale.
- 1030-40 Dolomite-limestone as above with slightly light brown
oil stain, fair trace sandstone white, light tan,
very fine grained, calcareous micro-micaceous, firm,
tite with occasional spotty brown oil stain.
- 1040-50 Dolomite-limestone as above micro-micaceous with silty
inclusions.
- 1050-60 Dolomite-limestone, brown, tan, gray-brown, flecked
with dark brown, very argillaceous firm, tite, very
scattered silty streaks no fluorescence, no cut.
- 1060-70 Sandstone, light gray, light tan-gray, slightly salt
and pepper, very fine to fine grained, angular to
sub-rounded, clear frosted, trace pink and light orange
quartz grains trace black and gray chert, micro-mica
(biotite), considerable brown carbonaceous flecks fair
sorting slightly argillaceous, calcareous, friable
to firm, with scattered very poor to poor porosity,
scattered brown oil stain, good cut with CCl₄.
- 1070-80 Sandstone as above.

DEKALB NO. 2 UTE TRAIL UNIT

- 1080-90 Sandstone, light gray, tan-gray, slightly salt and pepper, very fine to fine grained with occasional medium grained streak, angular to sub-rounded clear, frosted, trace light amber and light pink quartz grains, trace very light gray, black chert grains, trace green and black accessory mineral, micro-micaceous fair trace brown to black carbonaceous inclusions, friable very slightly calcareous, kaolinitic scattered very poor to fair porosity, scattered light brown oil stain, no fluorescence, good cut and fluorescence, after application of CCl₄, trace interbedded light green, light gray-green shale.
- 1090-1100 Sandstone as above with trace gilsonite inclusions, trace shale light gray-green, green,
- 1100-10 Sandstone as above with trace gilsonite inclusions very slight cut with CCl₄.
- 1110-20 Sandstone as above speckled brown with dead oil stain gilsonite flecks carbonaceous inclusions, slight cut with CCl₄.
- 1120-30 Dolomite-limestone light to dark tan, gray tan, argillaceous very sandy, firm, tite, no fluorescence with fair trace sandstone as above.
- 1130-40 Shale, light to very dark brown, tan, gray-tan, firm, sub-fissile to sub-blocky, slightly micro-micaceous, vry dolomitic, trace calcite filled frac, trace light oil stain, scattered cut with CCl₄, no natural fluorescence with weak trace scattered silty inclusions, light gray calcareous.
- 1140-50 Shale, light to very dark brown, tan, gray tan, as above trace dolomite, tan, micro xln, frim, argillaceous.
- 1150-60 Shale as above with trace siltstone, light gray, argillaceous calcareous, trace brown carbonaceous flecks.
- 1160-70 Shale as above light tan, tan, light brown more dolomite, firm, blocky, greasy lustre, scattered yellow fluorescence scattered very weak cut with CCl₄.
- 1170-80 Shale as above with trace siltstone, lighter gray, gray-tan, calcareous with trace carbonaceous flecks, trace light brown sandstone very fine grained, firm tite no fluorescence no cut with CCl₄.
- 1180-90 Shale as above with copious amount siltstone sandstone as above, no fluorescence no cut with CCl₄.
- 1190-1200 Siltstone, sandstone, light gray, light gray-brown, very fine grained, sligtly calcareous, consdierable, carbonaceous flecks slightly micro-micaceous slightly argillaceous trace shale as above.
- 1200-10 Siltstone and sandstone as above, very slight show.
- 1210-20 Siltstone as above with copious white specks, very slight show.
- 1220-30 Siltstone as above copious white specks.

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- 1230-40 Siltstone as above copious white specks, scattered trace gilsonitic flecks.
- 1240-50 Siltstone as above copious white specks, scattered trace gilsonitic flecks.
- 1250-60 Siltstone, sandstone, light gray, light brown-gray, very fine grained, considerable carbonaceous and gilsonitic flecks, calcareous micro-micaceous, hard dense, tite, no fluorescence, no cut with CCl_4 , trace fish fragment.
- 1260-70 Shale, light to medium brown, dark tan, tan, waxy to greasy lustre, firm, dolomite, yellow fluorescence, no cut with CCl_4 .
- 1270-80 Shale, brown, very dark brown, tan, waxy to greasy lustre slightly micro-micaceous dolomite very firm blocky trace silty inclusions, scattered yellow mineral fluorescence no cut with CCl_4 .
- 1280-90 Shale as above with less dark tan, brown.
- 1290-1300 Shale as above with slight banding dark and light brown shale.
- 1300-10 Shale, very light to dark brown, tan, firm, brittle, dolomite very slightly micro-mica, trace white, very firm non-calcareous, material.
- 1310-20 Shale as above, very firm, brittle, very dolomitic.
- 1320-30 Shale light to dark brown, red-brown, tan, very brittle, very dolomite, sub-waxy to greasy lustre, trace frac, with black tarry oil fill, fair cut with CCl_4 very scattered yellow mineral fluorescence.
- 1330-40 Shale as above with trace siltstone, sandstone, light gray, very fine grained slightly calcareous, trace black tarry oil.
- 1340-50 Shale as above with weak trace siltstone, sandstone, slight cut with CCl_4 .
- 1350-60 Shale, tan, light tan, brown, dolomite, very firm, brittle, dull gray, yellow, yellow fluorescence after, application of CCl_4 , scattered cut with CCl_4 .
- 1360-70 Shale as above slight cut with CCl_4 .
- 1370-80 Shale as above, slight cut with CCl_4 .
- 1380-90 Shale as above slight cut with CCl_4 , trace calcareous, trace black tarry oil along frac.
- 1390-1400 Shale as above with trace vein filling calcite, trace black tarry oil along frac.
- 1400-10 Shale as above slight darker (burned) trace cream-tan, earthy limy shale.
- 1410-20 Shale as above slightly darker trace siltstone, sandstone, very fine grained, calcareous tan, earthy limy shale.
- 1420-30 Shale as above.

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- 1430-40 Shale, light to dark brown, tan, sub-greasy lustre, dolomite very firm, brittle, trace micro-mica, slightly cut with CCl_4 scattered trace calcareous and pyrite.
- 1440-50 Shale as above.
- 1450-60 Shale as above becoming very dark brown to black, heavily saturated with dark brown to black, heavily saturated with dark brown oil in very scattered streaks
- 1460-70 Shale as above.
- 1470-80 Shale as above with trace oil stained calcareous, filled veins.
- 1480-90 Shale as above with fair trace oil stain.
- 1490-1500 Shale very light to very dark brown, tan, dolomite, slight micro-micaceous, brittle trace calcareous, trace brown oil stain, scattered bright yellow fluorescence good cut with CCl_4 .
- 1500-10 Shale as above with good trace calcite.
- 1510-20 Shale as above with good trace calcite less fluorescence and cut.
- 1520-30 Shale as above fair trace calcite less fluorescence and cut (burned sample)
- 1530-40 Shale as above fair trace calcite.
- 1540-50 Shale as above trace calcite scattered brown oil stain.
- 1550-60 Shale as above calcite scattered brown oil stain lost circulation 1560.

DEKALB NO. 2 UTE TRAIL UNIT

- 1560-2315 Lost complete circulation, lost circulation material does not appear to have angular affect in helping to gain returans so commenced dry drilling ahead. Dry drilled from 1560 to 2315.
- 2313-20 Cement.
- 2320-30 Shale, brown, gray-brown, black-brown, firm, sub-waxy, dolomite trace dolomitic tan, brown micro xln.
- 2330-40 Shale as above with dolomite, gray, gray-brown, micro xln, firm, argillaceous, slightly fluorescence and cut.
- 2340-50 Interbedded shale, and dolomite as above.
- 2350-60 Interbedded shale and dolomite as above with considerable black shale.
- 2360-70 Shale as above.
- 2370-80 Shale as above with scattered trace interbedded dolomite, light to dark gray, gray-brown, micro xln, den tite.
- 2380-90 Shale as above trace dolomite trace dolomitic limestone tan, earthy micro xln, trace oil stain.
- 2390-2400 Shale as above with trace limestone, cream-white, cream-tan, earthy, soft trace crypto xln, scattered white mineral fluorescence.
- 2400-10 Shale as above with trace limestone, white trace sandstone with brown oil stain.
- 2410-20 Shale very light to dark gray, gray-brown, brown, sub-waxy, dolomite scattered fluorescence and cut of CCl₄, trace limestone as above.
- 2420-30 Shale as above with trace green-gray, slightly micaceous shale with scattered silty and sandy streaks.
- 2430-40 Shale as above.
- 2440-50 Shale as above with fair trace sandstone light gray, fine to medium grained, angular to sub-angular, clear frosted, quartz grains trace gray chert, calcareous, fair good porosity, no show.
- 2450-60 Shale as above with trace sandstone and siltstone.
- 2460-70 Shale, light gray, gray, light green-gray, sub-fissle, firm, with very silty inclusions, slightly calcareous, micaceous, weak trace sandstone.
- 2470-80 Shale, brown, very dark-brown, black, sub-waxy, firm, dolomite weak trace oil stain.
- 2480-90 Shale as above becoming more tan and oil saturated, very fissle, laminated.
- 2490-2500 Shale as above becoming more tan, and oil saturated, very fissle, laminated.
- 2500-10 Shale as above with tracd dolomite, gray-tan, tan, micro xln.
- 2510-20 Shale, gray, black, gray-brown, brown sub-fissle to firm blocky, dolomite with trace dolomite as above.
- 2520-30 Shale as above predominate black.
- 2530-40 Shale as above with scattered very oily streaks.
- 2540-50 Shale as above with trace dolomite, tan, brown, micro xln, den tite.

DEKALB NO. 2 UTE TRAIL UNIT

- 2550-60 Shale as above with considerable cement good trace sandstone, white, fine grained angular to sub-rounded calcareous very friable good porosity, no show.
- 2560-70 Sandstone and shale as above with considerable cement contamination.
- 2570-80 Shale, light to dark brown, gray-brown, gray, very dark gray, sub-fissile, with scattered sub-waxy lustre slightly micaceous.
- 2580-90 Shale as above with trace limestone cream, cream-tan, micro-xln.
- 2590-2600 Shale as above with limestone acream, cream-tan, micro to fine xln, ostracodal, firm, tite, trace chert trace oil stain.
- 2600-10 Shale as above with limestone cream, cream-tan, micro to fine xln, ostracodal oolitic, firm tite, slightly argillaceous, trace oil stain.
- 2610-20 Shale as above with trace siltstone, sandstone, white, very light gray, very fine to fine grained, calcareous friable, good porosity, no show.
- 2620-30 Shale, light to very dark gray, brown gray, gray-green, firm, sub-fissile micaceous, calcareous trace silty and sandy inclusions very limy.
- 2630-40 Shale as above becoming gray-green.
- 2640-50 Shale as above with silty streaks.
- 2650-60 Shale as above with trace siltstone and sandstone.
- 2660-70 Shale as above with fair trace limestone cream, cream-white, micro-xln, slightly sandy trace sandstone, light gray, fine to medium grained friable trace fluorescence and cut with CCl_4 .
- 2670-80 Limestone as above with sandy streaks trace shale.
- 2680-90 Shale as above with trace limestone as above with trace sandstone.
- 2690-2700 Shale as above with trace fair to brown oil shale, trace siltstone, sandstone, very light orange, gray, light gray-green, very fine grained, with trace brown oil stain.
- 2700-10 Shale as above with good trace siltstone sandstone, as above trace limestone cream, cream-tan, micro xln dentite
- 2710-20 Shale as above with trace siltstone and sandstone as above.
- 2720-30 No sample.
- 2730-40 Sandstone, white, very light gray, very fine to fine grained, clean, well developed, calcareous, with good to poor porosity very slightly oil stain, trace interbedded cream, cream tan, limestone, micro-xln, soft, succrosic with very scattered brown oil stain, oolitic, ostracodal.
- 2740-50 Shale, light gray, light green-gray, calcareous, silty slightly micaceous fair trace sandstone, and oolitic limestone as above.
- 2750-60 Shale as above with fair trace sandstone and oolitic limestone.

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- 2760-70 Shale as above with trace siltstone and sandstone.
2770-80 Shale as above with trace siltstone and sandstone.
2780-90 Shale as above with trace limestone cream, tan, buff, micro-xln, micro-succrosic, oolitic, slightly ostracodal with sandy streaks, slight oil stain.
2790-2800 Shale as above with good trace, sandstone, very light gray, white, very fine to fine grained, calcareous, clean, friable with trace limestone as above weak trace oil stain.

DEKALB NO. 2, UPPER TRAIL UNIT

- 2800-10 Sandstone very light gray, white, buff-white, very fine to fine grained, limy with scattered oolitic straks trace pyrtie with interbedded limestone, cream tan, tan, micro-xln, oolitic, slightly trace porosity, trace brown oil stain, and fair trace shale light gray, light green-gray, brown, gray-brown, sub-waxy lustre, slightly dolomitic, with silty streaks.
- 2810-20 Sandstone, limestone and shale as above with scattered brown oil stain.
- 2820-30 Sandstone, limestone and shale as above scattered brown oil stain.
- 2830-40 Sandstone, shale and limestone as above with increase in shale.
- 2840-50 Shale, light brown, tan, tan and white speckled, gray, firm, sub-fissile calcareous, sub-waxy lustre with trace sandstone and limestone as above.
- 2850-60 Shale, light gray, light gray-green, sub-waxy lustre calcareous, with fair trace interbedded sandstone, very light gray very light green-white, very fine grained calcareous, micro-micaceous.
- 2860-70 Sandstone, white, very light gray, very fine to fine grained, angular to sub-angular, clear frosted quartz grain, very calcareous, firm, to friable, clean, fairly well sorted, scattered very poor porosity, with scattered fair to brown oil stain, and trace interbedded gray, green-gray, calcareous shale, trace pyrite.
- 2870-80 Sandstone as above with interbedded shale.
- 2880-90 Sandstone as above becoming limy with increase in shale trace limestone, light gray, gray, oolitic.
- 2890-2900 Sandstone, light gray, white, very fine grained, slightly oolitic, calcareous, to very limy trace light brown oil stain, with interbedded shale as above.
- 2900-10 Limestone, light gray, buff-gray, firm, very argillaceous slightly oolitic with trace pyrite, and shale, light gray, buff-green, sub-fissile to firm sub-waxy, calcareous trace pyrite, scattered trace brown oil globules.
- 2910-20 Limestone, cream-tan, light gray-tan, buff-tan, micro xln, slightly earthy, oolitic, slightly trace ostracoda with trace interbedded thin fine to medium grained, friable, clean, white sandstone, stringers, trace shale brown, gray-brown, waxy very scattered trace brown oil stain.
- 2920-30 Interbedded limestone and sandstone as above with weak trace light brown oil stain.
- 2930-40 Interbedded limestone and sandstone as above weak trace light brown oil stain, trace light gray-green, waxy shale.

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- 2940-50 Shale, gray, green-gray, buff-green, very dolomitic, sub-waxy lustre, with stringers siltstone and sandstone, white, very light gray very fine grained, micro-micaceous, calcareous slightly micro-oolitic.
- 2950-60 Sandstone, white, very fine to fine grained, quartz grains, calcareous to limy, micro-micaceous, clean, well sorted, friable to firm, with scattered trace very spotty brown oil stain, with weak trace oolitic ostracodal tan limestone.
- 2960-70 Sandstone as above with ostracodal limestone.
- 2970-80 Sandstone as above with trace limestone fair trace shale light gray, light green-gray, light gray, firm, blocky micro-micaceous dolomite to calcareous.
- 2980-90 Interbedded sandstone and shale as above.
- 2990-3000 Shale, gray-green, gray, gray-brown, subwaxy lustre calcareous to dolomite micro-micaceous, with sandstone as above.
- 3000-10 Shale as above with trace limestone, gray, buff-white, slightly oolitic, argillaceous, with sandstone as above.
- 3010-20 Interbedded sandstone and shale as above with trace limestone.
- 3020-30 Shale, gray-brown, brown, gray, firm, brittle, micro-micaceous, dolomite, with trace dolomitic brown, very argillaceous, micro micaceous, with interbedded thin stringers, very fine grained, white, sandstone, trace pyrite.
- 3030-40 Shale, brown, dark brown, gray-brown, tan, resinous-brown soft to firm, waxy lustre, very petro appearance, trace brown, micro-oolitic, slightly oolitic dolomite inclusion trace ostracodal .
- 3040-50 Shale as above.
- 3050-60 Sandstone, very light gray, buff-gray, very fine grained limy, firm, slightly oolitic, with black micro to medium oolites, with trace brown oil stain, trace shale light gray, green-gray, calcareous, trace shale as above trace cream-tan, earthy limestone.
- 3060-70 Sandstone as above with considerable increase in shale with gray, micro-oolitic dolomite inclusions.
- 3070-80 Limestone, white, buff-white, micro-oolitic, very sandy, oolitic, ostracodal, and shale, brown, gray brown, waxy oil stained.
- 3080-90 Limestone as above with sandstone, white, very fine to medium grained, clean, calcareous fairly well sorted trace poor porosity white, trace brown oil stain, trace shale as above.

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- 3090-3100 Siltstone, sandstone, white, very light gray, very fine to medium grained, angular to sub-rounded, clear, frosted very light pink, very light amber, very light orange quartz green, white with trace gray to black chert, trace micro-black oolites, calcareous, clean, tite, trace limestone, very light tan, light gray, micro xln, ostracodal, with shale, gray, green-gray, calcareous waxy.
- 3100-10 Siltstone, and sandstone as above with considerable brown dark gray-brown, resinous oil shale.
- 3110-20 Shale, light to dark brown, tan, yellow-tan, waxy oil saturated appearance, with limestone cream-tan, micro-xln micro-succrosic, micro-oolitic, with sandstone white, very fine grained, calcareous very scattered brown oil stain.
- 3120-30 Limestone as above with very sandy streaks, trace brown oil stain, trace oil shale as above.
- 3130-40 Shale, very light gray, buff-gray, calcaeous, fissle trace brown oil shale, trace cream-tan, micro-xln, limestone, trace sandstone.
- 3140-50 Shale, limestone and sandstone as above.
- 3150-60 Shale as above with considerable sandstone, white, very fine to fine grained, calcaeous, and limestone white cream-tan, micro-xln, ostracodal.
- 3160-70 Sandstone, white, very light gray, fine to medium grained, angular to well rounded, clear frosted, light pink, very light orange, quartz graines, with trace black and gray chert grains, slightly micro-micaceous trace micro-oolites calcareous, clean, well sorted, friable with fair to very poor porosity very scattered light very slight show, trace brown, tan, waxy oil shale, trace cream-tan, earthy limestone trace pyrite.
- 3170-80 Sandstone as above with slightly moore stain, fair trace interbedded black, brown waxy oil shale.
- 3180-90 Sandstone as above with trace shale, light gray, green-gray, gray-brown, brown, waxy dolomite.
- 3190-3200 Interbedded sandstone as above becoming more silty and calcareous, and shale as above.
- 3200-10 Shale, green-gray, light gray, sub-waxy, calcareous, micro-micaceous with trace sandstone and limestone as above.
- 3210-20 Shale as above with trace limestone and sandstone.
- 3220-30 Shale, light to dark brown, tan, firm to soft fissle waxy, delomite, with trace sandstone, white, very fine grained, limy.
- 3230-40 Interbedded green-gray, light gray, waxy, shale, and sandstone, white, very fine grained, calcaeous, micro-micaceous.

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- 3240-50 Interbedded green-gray, light gray, waxy, shale and sandstone white, fine to medium grained, very calcareous micro-micaceous clean, white, with very poor to poor porosity with brown oil stain, trace limestone light gray, tan, micro-xln, micro-oolitic.
- 3250-60 Sandstone, white, very light gray, very fine to fine grained, occasional medium grain streak, angular to well rounded clear frosted, with trace light pink, light orange quartz grains, trace light gray chert grains, micro-micaceous, clean, well sorted, calcareous, friable with fair scattered porosity, very scattered trace brown oil stain, fair trace shale gray-green, gray, sub-waxy calcareous.
- 3260-70 Sandstone as above with very weak trace brown oil stain, trace shale.
- 3270-80 Shale, green-brown, green-gray, gray, light gray, brown sub-waxy, slightly calcareous slightly micro-micaceous trace sandstone as above, tracelimestone, cream-white, micro-oolitic, ostracodal.
- 3280-90 Shale, brown, gray-brown, gray, waxy, sub-fissile, oil shale, weak trace limestone and sandstone as above.
- 3290-3300 Shale, brown, gray-brown, tan waxy, sub-fissile dolomite oil shale, weak trace limestone and sandstone as above.
- 3300-10 Shale as above with more gray, green-gray, dolomite, oil shale weak trace limestone and sandstone as above.
- 3310-20 Shale as above with trace sandstone and limestone as above.
- 3320-30 Shale as above with fair trace sandstone, white, very light gray, very fine to medium grained, very calcareous micro-micaceous, with scattered trace very poor porosity, and with very scattered trace very spotty oil stain, trace limestone cream-white, slightly earthy
- 3330-40 Same as above.
- 3340-50 Shale gray, gray-green, gray-brown, brown tan sub-waxy dolomite, slightly micro-micaceous with trace, sandstone trace limestone, tan, cream-tan, crypto xln, ostracodal, slightly oolitic, very scattered trace light brown oil stain.
- 3350-60 Shale, sandstone, limestone as above.
- 3360-70 Limestone, white, cream-white, micro-xln, oil oolitic and ostracodal with considerable sandstone, light gray, white very fine to fine grained, angular to sub-rounded, clear frosted, with trace light pink and orange quartz grains, trace micro oolites, calcareous, clean, fairly well sorted, friable, with trace porosity weak trace, brown oil stain, trace shale, brown-gray, brown, tan, gray, sub-waxy, dolomite shale.

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- 3370-80 Sandstone very light gray, very fine to fine grained, angular to sub-rounded, clear, frosted, with occasional trace light orange, pink quartz grains, trace light gray to black chert slightly micro-micaceous, calcareous clean, well sorted, with very firm to friable streaks scattered trace very poor porosity with very scattered spotty oil stain, trace pyrite, to limestone weak to tan, dense, firm, very tight, with scattered ostracodal streaks trace shale green-gray, light gray, sub-waxy calcareous, trace brown, tan, waxy, oil shale.
- 3380-90 Sandstone as above with trace shale as above very scattered spotty oil stain.
- 3390-3400 Interbedded sandstone with trace limestone and shale as above very scattered spotty oil stain.
- 3400-10 Shale light to very dark gray, trace black and very dark brown, slightly dolomitic, set-waxy, with scattered silty stringers slightly micro-micaceous, and thin bedded light tan, very light gray, very fine to fine grained, calcareous sandstone, slightly micro-micaceous with scattered light brown stain.
- 3410-20 Shale, light green-gray, light gray-green, firm, sub-waxy, calcareous slightly micro-micaceous, very slightly silty trace sandstone, light gray salt and pepper, very fine grained, micro-micaceous, calcareous, very firm, tight, trace pyrite.
- 3420-30 Shale as above with trace interbedded sandstone as above.
- 3430-40 Shale as above with interbedded shale, tan, gray-tan, limy trace dolomite tan, gray-tan, dense weak trace sandstone as above.
- 3440-50 Shale, gray, green-gray, medium-gray, micro-micaceous, firm, calcareous, blocky, with silty streaks.
- 3450-60 Shale as above.
- 3460-70 Shale as above with trace gray-tan, gray-brown, dolomite to limy shale.
- 3470-80 Shale as above trace gray-tan, gray-brown, dolomite to limy shale, trace amber fossil fragment.
- 3480-90 Shale, light gray green-gray, gray-tan, gray, brown, brown, sub-waxy, dolomite firm, blocky, slightly micro-micaceous.
- 3490-3500 Shale as above with trace dolomite, dolomitic limestone. tan, gray-tan, dense argillaceous, trace light gray, limestone, dense very sandy slightly micro-micaceous, micro-oolitic weak trace light brown oil stain.
- 3500-10 Shale with dolomite-dolomitic-limestone, as above.

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- 3510-20 Interbedded green-gray, light gray, gray-tan, sub-waxy, silty, micro-micaceous, calcareous shale, and sandstone, light gray very light tan-gray, very fine to fine grained, calcareous micaceous, den, tite, with scattered very poor porosity weak trace light brown oil stain, trace dolomite, dolomitic limestone, tan, gray-tan, den.
- 3520-30 Interbedded shale and sandstone as above.
- 3530-40 Interbedded shale and sandstone as above with fair trace sandstone, light tan, very fine to fine grained, angular to sub-rounded clear, frosted, quartz grains, calcareous clean, slightly firm to friable, with scattered good even light tan oil stain.
- 3540-50 Interbedded shale and sandstone as above very slightly show.
- 3550-60 Interbedded shale and sandstone as above very slight show.
- 3560-70 Shale, light to very dark brown amber-brown gray-brown, tan, waxy, dolomite firm fissle and blocky oil stained.
- 3570-80 Shale as above with brown-black black and green-gray shale.
- 3580-90 Shale, light to very dark brown, gray-brown, amber-brown, green-gray, waxy lustre, dolomite, fissle to blocky, firm, slightly trace oil stain.
- 3590-3600 Shale as above with trace limestone, light brown, gray-tan, oolitic.
- 3600-10 Shale as above becoming predominate medium-gray, green-gray.
- 3610-20 Shale as above.
- 3620-30 Shale as above with considerable brown, dolomite shale.
- 3630-40 Shale as above with fair trace limestone, buff, very light gray-white, silty slightly argillaceous,
- 3640-50 Sandstone, brown very fine to fine quartz grains, slightly dolomitic, friable, with poor to fair porosity saturated with trace shale as above brown oil.
- 3650-60 Sandstone as above becoming light gray, light gray-tan very fine to fine grained, calcareous firm tite, with fair trace shale, green-gray, gray, sub-waxy, calcareous slightly micro-micaceous.
- 3660-70 Shale, light to very dark brown, gray-brown, light gray, gray-green, sub-waxy, dolomite scattered slightly cut with CCl₄ weak trace oil stained brown sandstone as above.
- 3670-80 Shale, gray, green-gray, micro-micaceous calcareous, firm blocky with scattered silty streaks trace sandstone very light gray, very fine grained calcareous.

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- 3680-90 Shale as above good amount interbedded thin straks sandstone, white, very light gray, very fine grained, quartz grains micro-micaceous scattered trace black micro-oolites calcareous, very firm to friable with very scattered spotty brown oil stain, trace brown-black, black oil wet gilsonite.
- 3690-3700 Shale and sandstone as above with decrease in sandstone
3700-10 Shale, gray, gray-brown, gray-tan, green-gray, sub-waxy slightly micro-micaceous firm, sub-fissile to blocky calcareous.
- 3710-20 Shale as above becoming gray-brown, waxy slightly oil stained, with fossil and ostracoda fragment.
- 3720-30 Shale, brown, very dark brown, gray brown, waxy, dolomite firm blocky to sub-fissile, oil shale, trace ostracoda and fish scales.
- 3730-40 Shale as above.
- 3740-50 Shale as above.
- 3750-60 Shale as above becoming amber-brown, very dark brown, more oil stained, trace ostracodal dolomitic streaks.
- 3760-70 Shale as above with trace tan, dolomite trace pyrite.
- 3770-80 Shale as above with trace tan, dolomite trace pyrite.
- 3780-90 Shale as above with trace gray, green-gray, dolomite, sandy shale.
- 3790-3800 Shale as above with trace dolomite, tan, brown with white flecks.
- 3800-10 Shale as above becoming gray to black, less oil shale
3810-20 Shale light to very dark brown, very dark gray-brown, dolomite, firm, blocky, slightly oil stain trace light gray shale.
- 3830-40 Shale as above becoming very dark gray-brown, to black trace dolomite, tan to brown, gray brown very den tite
- 3830-40 Shale, light to dark brown amber-brown, tan, waxy, dolomite traceamber, to tan dolomite, with scattered brown saturated
- 3840-50 Shale as above becoming dark gray-brown, very dark brown trace dolomite, light to very dark brown, ostracodal trace fish scales.
- 3850-60 Shale with trace dolomite as above.
- 3860-70 Limestone, tan, light brown and white amber-brown, micro to fine xln, firm, tite, with fair tracegilsonite trace brown shale partings with ostracoda, scattered siltstone.
- 3870-80 Limestone as above becoming very dark brown, amber-brown gray-brown, micro-xln den tite, with interbedded, dark brown, gray-brown waxy shale, slightly show oil stain.
- 3880-90 Sandstone, light gray, white, very fine grained, calcaeous firm, with scattered argillaceous straks trace micro-mica, with interbedded, green-gray, calcareous shale, trace limestone and shale as above.

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- 3890-3900 Interbedded, shale, green-gray, gray, sub-waxy calcareous with silty streaks and sandstone, very light gray very fine grained, mica, slightly argillaceous, calcareous den tite.
- 3900-10 Interbedded sandstone and shale as above sandstone becoming fine grained, with no show, trace brown, dolomite, waxy shale.
- 3910-20 Sandstone, very light gray, very fine grained, fine grained, with scattered medium grained, angular to sub-rounded, clear, frosted with occasional pink and amber quartz grains, trace black and gray chert grains, very calcareous, slightly micro-micaceous, scattered trace micro-oolite, very firm, tite very slight trace spotty oil stain with considerable gray, green-gray, green-brown, brown sub-waxy calcareous shale.
- 3920-30 Sandstone as above with fair trace tan micro-oolites, good trace medium grained, very light gray, white, sandstone, water wet, interbedded with shale as above.
- 3930-40 Gilsonite very dark brown, black shiny, with trace green, gray, gray-green, sub-waxy, calcareous shale.
- 3940-50 Limestone, light brown, tan, tan, and white, macro to fine xln, very oolitic, ostracodal, firm, tite with trace shale and gilsonite as above.
- 3950-60 Limestone as above with sandy inclusions with considerable green-gray, gray, sub-waxy calcareous, shale, scattered silty streaks.
- 3960-70 Shale, green-gray, gray, gray-brown, brown, sub-fissile to splintery, dolomite to calcareous slightly micro-micaceous with interbedded silt and sandstone very light gray, very fine to fine grained, micro-micaceous, argillaceous calcareous, den tite, trace limestone as above.
- 3970-80 Sandstone, white, very light gray, fine to medium grained angular to sub-rounded, clear frosted and tracelight pink amber, quartz grains with trace black and gray chert grains, trace light green to black accessory mineral micaceous, calcareous clean, fair sorting, friable with poor to good porosity, no show, trace interbedded green-gray, gray sub-waxy shale.
- 3980-90 Sandstone as above.
- 3990-4000 Interbedded shale and sandstone as above.
- 4000-10 Interbedded shale, gray, green-gray, dark-gray, gray-brown, brown sub-fissile, splintery, waxy and sandstone white, fine to medium grained, with occasional coarse green, calcareous no show trace pyrite.
- 4010-20 Shale and sandstone as above.

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- 4020-30 Shale, dark brown, brown, very dark-gray-brown, firm, dolomite, sub-waxy, blocky with trace gray and black shale trace fish scales trace limestone, tan, amber, brown, micro-xln firm den, tite, slightly ostracodal and oolitic, slightly spotty brown oil stain.
- 4030-40 Shale as above with trace grastropoda and pelcy poda shell fragment.
- 4040-50 Shale, very dark brown, brown, black, sub-fissile to blocky, very gilsonitic, with fish fragment, irred. shell fragement, trace interbedded gilsonite, trace limestone, amber-brown, micro-xln, fossil, trace green, olive green, sub-waxy shale.
- 4050-60 Shale as above becoming less gilsonitic good amount shale, green-gray, gray, sub-waxy, silty streaks, calcareous, slightly micro-micaceous, trace sandstone white fine to medium grained, angular quartz grains calcareous trace pyrite.
- 4060-70 Shale, gray-green, green, olive-green, sub-waxy, blocky Calcareous, with scattered silty streaks trace brown gray-brown, black gilsonitic shale.
- 4070-80 Shale, brown, dark-brown, gray-brown, amber-brown, very limy, very fossil very trace fish, pelcy ostracodal fragment with interbedded green, gray-green, shale.
- 4080-90 Shale as above and limestone amber-brown, brown, very fossil argillaceous.
- 4090-4100 Limestone, light to very dark brown, fair micro-xln very argillaceous very fossil with ostracoda, pelecypod and fish fragment with gilsonitic streaks, trace gray green, waxy silty, shale.
- 4100-10 Limestone as above with considerable shale, gray-green green-gray, sub-waxy, calcareous with scattered silty streaks trace pyrite, trace sandstone, white, very light gray, fine grained, with occasional medium grained, angular to well rounded, clear frosted and light pink, light orange quartz grains, calcareous den tite.
- 4110-20 Shale, black dark brown, brown, tan, resinous-brown, sub-waxy, gilsonitic, trace limestone amber, brown, micro-xln, argillaceous fossil, with trace pelecypod, ostracoda.
- 4120-30 Shale and limestone as above trace green-brown, green-gray, very silty, sub-waxy shale.
- 4130-40 Shale, limestone as above trace green-brown, green-gray, very silty, sub-waxy fossil shale.
- 4140-50 Interbedded sandstone white, light green-white, very fine to fine grained angular to sub-rounded, clear, frosted with trace light green, very light pink very light orange, with trace light gray to black chert grains micro-micaceous, calcareous firm to friable, with scattered argillaceous streaks, trace light brown oil stain, and shale gray-green, green-gray, olive-green, sub-waxy, calcareous, splintery to blocky.

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- 4150-60 Sandstone as above becoming medium-grained, wilt brown oil stain and increase in shale as above.
- 4160-70 Shale, gray, gray-green, olive, brown-gray, firm, splintry, blocky, caclareous, slightly micro-micaceous with interbedded thin white, very fine grained, sandstone stringers weak trace stained, sandstone as above.
- 4170-80 Interbedded shale and sandstone as above 50% sandstone.
- 4180-90 Shale as above with limestone, brown to gray-brown, tan, micro to crypto xln, argillaceous, very fossil, ostracoda, pelecyp, trace gilstonite.
- 4190-4200 Limestone, tan, light to dark brown, gray-brown, micro to crypto xln, argillaceous very fossil, very ostracodal trace green-gray, sub-waxy, pyrite shale, scattered trace brown oil stain, trace chert.
- 4200-10 Limestone as above with scattered trace oolites, very ostracodal, with trace gray-brown gray, waxy, calcareous shale,
- 4210-20 Limestone, cream-tan, tan, brown trace earthy micro to crypto xln, very ostracodal slightly oolitic, trace amber, amber-brown, chert, trace pyrite, trace interbedded brown, gray-brown, waxy shale, tracepyrite, trace oil stain.
- 4220-30 Limestone as above with fair trace black, fissile to splintry sub-waxy shale.
- 4230-40 Shale, gray, green-gray, olive-green, gray-brown, sub-fissile, to firm, splintry calcareous sub-waxy. trace sandstone light gray, fine to medium grained, angular to sub-rounded, clear, frosted quartz green nad gray to black chert grains, slightly micro-micaceous, calcareous, fair sorting, clean, very tite, fair trace limestone as above.
- 4240-50 Shale, red-brown, gray-brown, gray, green-gray, sub-waxy, firm, splintry to fissile with very scattered silty streaks, trace oil stain along frac.
- 4250-60 Shale as above with trace limestone cream-tan, micro to crypto xln, ostracoda weak trace sandstone, light brown, fine grained, oil stained.
- 4260-70 Shale as above with fair trace limestone as above trace light amber-brown, brown, chert weak traee sandstone, light brown, fine to medium grained, light brown oil saturated.
- 4270-80 Shale, light gray, light green-gray, brown-gray, brown sub-fissile to splintry, very calcaceous, firm, sub-waxy, trace ostracoda, trace limestone as above.
- 4280-85 Shale as above with scattered limy streaks.
- 4285-90 Shale as above.
- 4290-95 Shale as above with trace limestone very light gray-brown, light gray-tan, cream-tan, very argillaceous, ostracodal.

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- 4295-4300 Shale as above with very good trace limestone, cream-tan gray-tan, gray-tan, tan, micro-xln, very ostracodal slightly oolitic scattered weak trace oil stain.
- 4300-10 Returns none - trip.
- 4305-10 Shale, gray-green, very light gray, dark green-gray, sub-waxy slightly calcareous, firm, blocky trace pyrite, scattered silty streaks trace sandstone.

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- 4310-15 Shale as above, trace siltstone and sandstone, very light gray, very light green-gray, very fine grained, argillaceous with sandstone, light gray, light tan, light green-gray, very fine to fine grained, angular to sub-angular, clear, frosted, trace light pink, and orange, quartz grains weak trace black, gray, red chert grains, very calcareous, firm, tite.
- 4315-20 Shale, very light green, very light gray-green, very light gray, very light gray-tan, very light red-purple, sub-waxy, meta-bentonite, firm, blocky with scattered very silty to sandy inclusions sandstone, very light green, very light green-gray, very fine to medium grained, angular to sub-angular clear frosted, with occasional light pink, light orange quartz grains, trace black, gray, chert grains, trace black and green accessory mineral trace mica, calcareous very argillaceous firm tite, trace pyrite.
- 4320-30 Shale and sandstone as above.
- 4330-40 Siltstone, sandstone, white, light green, light gray-green, very fine to medium grained, angular to sub-rounded, clear, frosted, with trace light amber pink and orange quartz grains, trace black, gray chert, trace green, black accessory mineral, trace mica, calcareous bentonite, firm, tite trace pyrite, trace green-gray shale inclusions.
- 4340-50 Sandstone, siltstone, as above with fair trace shale, red-brown, purple-red, light green, light gray-green, subwaxy, meta-bentonite aren.
- 4350-60 Siltstone, sandstone as above becoming varicolored, trace shale, red-purple, red-brown, rusty-red gray-green, yellow-brown, sub-waxy, meta-beintonite slightly calcareous streaks.
- 4360-70 Siltstone, shale as above.
- 4370-80 Shale, siltstone, varicolored trace very light green, very light gray, very fine to fine grained micaceous, calcareous, sandstone, trace limestone varicolored very argillaceous, trace pyrite.
- 4380-90 Shale, siltstone with 60% sandstone as above trace limestone, white, buff-tan, micro to crypto xln, with chalky streaks

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- 4390-4400 Sandstone as above with trace varicolored siltstone and shale as above.
- 4400-10 Sandstone, white, very light gray, very light green-gray, very light gray-tan, very light lavender fine to medium grained, with occasional coarse grain, angular to sub-rounded clear frosted with occasional light pink, yellow and orange quartz grains and trace black and gray red, chert grains, trace green and black accessory mineral, trace mica, very calcareous, slightly argillaceous, firm, tite no show, trace varicolored, sub-waxy slightly calcareous shale, trace varicolored limestone concrec, tracey pyrite.
- 4410-20 Shale, varicolored, sub-waxy meta-bentonite, slightly calcareous, scattered very silty streaks, trace pyrite fair trace sandstone trace gypsum.
- 4420-30 Shale varicolored, sub-waxy, meta-bentonite, slightly calcareous scattered very silty streaks trace pyrite, trace sandstone and limestone nodules.
- 4430-40 Shale, varicolored as above with trace limestone light tan, light buff-brown, macro-xln, den brittle tite, weak trace sandstone, white, and varicolored.
- 4440-50 Shale as above trace limestone trace sandstone.
- 4450-60 Shale as above with trace siltstone, trace sandstone, trace limestone very weak trace gray.
- 4460-70 Shale as above becoming very silty and sandy, with trace interbedded limestone, trace gypsum.
- 4470-80 Shale as above becoming very silty and sandy trace sandstone, white, very light gray, fine to medium grained, calcareous, slightly argillaceous with varicolored quartz grains trace black chert grains, micaceous trace gypsum.
- 4480-90 Shale, varicolored, predominate, red-uprple, red-brown very silty, trace sandstone trace varicolored limestone nodules, trace white chalk to micro xln gypsum.
- 4490-4500 Shale as above trace black, splintry, firm, shale, trace limestone, gray-brown, micro-xln firm.
- 4500-10 Shale as above fair trace sandstone, light lavender, white, very light gray, buff gray, very fine to medium grained, calcareous with varicolored quartz and chert grains, micaceous, argillaceous firm tite, trace gypsum.
- 4510-20 Shale varicolored, predominate, gray and green, gray-green trace sandstone trace gypsum.
- 4520-30 Shale varicolored trace sandstone trace gypsum.
- 4530-40 Siltstone, sandstone, light lavender, red-uprple, white, light gray, very fine to fine grained, argillaceous, calcareous micaceous, good trace varicolored, sub-waxy, lustre, shale with scattered silty streaks weak trace pyrite, and gypsum.

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- 4540-47 Sandstone very light gray-lavendar, very light lavendar, fine to medium grained, angular to sub-rounded, clear very frosted, with light pink, orange, quartz grains trace light gray, black white, red chert grains, trace black and green accessory mineral, micro-micaceous calcareous, argillaceous, fair sorting firm, to friable with scattered very poor to poor porosity, no show.
- 4547-52 Sandstone as above with trace varicolored shale.
- 4552-60 Shale varicolored, predominate drab colors, sub-waxy slightly silty streaks, slightly calcareous, meta-beintone, trace sandstone as above.
- 4560-70 Shale varicolored with predominate, yellow-orange, orange-red, purple-red, trace white, very light gray, fine to medium grained, calcareous sandstone, trace black splintry shale.
- 4570-80 Shale varicolored as next above with very silty and sandy inclusions trace sandstone very light gray-lavendar very light gray, fine to medium grained, angular to sub-rounded, with varicolored quartz and chert grains micaceous, calcareous, slightly argillaceous, trace bentonite, buff-tan, soft lumpy.
- 4580-90 Shale, varicolored as above with moderate trace sandstone.
- 4590-4600 Shale, light gray-green, red-uprple, red-brown, yellow-red, red-tan, blue-green, lavendar, yellow, sub-waxy lustre, meta-benontite, slightly calcareous with scattered silty streaks trace sandstone very light gray-lavendar, fine to medum grained, angular to sub-rounded, quartz and chert grains, trace mica, calcareous argillaceous no show.
- 4600-10 Shale, varicolored but predominate, red-purple, red-brown, trace siltstone and sandstone.
- 4610-20 Shale, varicolored, with fair trace sandstone, very light gray-lavendar, very light lavendar-white, fine to medium grained, varicolored quartz and chert grains, trace mica, calcareous slightly argillaceous friable to firm tite,
- 4620-30 Interbedded shale and sandstone as above.
- 4630-40 Shale, varicolored, with weak trace sandstone as above weak trace gypsum.
- 4640-50 Shale, varicolored with scattered slightly silty streaks weak trace gypsum.
- 4650-60 Shale, varicolored with scattered silty and sandy streaks.
- 4660-70 Shale varicolored with trace limestone tan, micro-xln den and trace dolomite green-gray nodules.

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- 4890-95 Shale as above with fair trace sandstone, white, very light gray, very light green-white, fine to medium grained, angular to sub-rounded clear frosted, with occasional very light pink and orange quartz grain, trace black chert grains, trace black and green accessory mineral; Calcareous fairly clean, fair sorting, very firm to friable, very scattered very poor to poor porosity, no fluorescence or cut.
- 4895-4900 Sandstone, white, very light gray, very light green-white medium grained, with trace fine grained, angular to sub-rounded, clear frosted with very scattered light pink, very light orange and trace black and gray and reds, chert grains, trace green and black accessory mineral, micaceous, calcareous fairly clean fair sorting, firm to friable trace pyrite with very poor to poor porosity, gas kick - 48 units methane 3 unites in samples, no fluorescence, no cut with CCl_4 .
- 4900-04 Sandstone as above with considerable shale rusty-red purple-red, red-brown, red-tan, yellow-red, light green light gray-green, sub-waxy lustre, slightly calcareous meta-bentonite, scattered silty streaks, floating well rounded quartz grains.
- 4904-10 Sandstone as above with considerable shale as above.
- 4910-20 Shale varigated, with predominate of reds and purple.
- 4920-30 Shale as above with trace very silty inclusions trace gypsum, trace limestone nodules.
- 4930-40 Shale as above with trace sandstone, white, very light gray, very light green-gray, white, fine to medium grained, calcareous, micaceous.
- 4940-50 Shale as above with trace limestone, light buff, very light buff-tan, crypto to micro xln.
- 4950-60 Shale as above with fair trace sandstone very light gray-white, white, light green-white, slightly salt and pepper, fine to medium grained, angular to sub-rounded, clear frosted, trace light pink and orange quartz grains, trace black gray and red chert grains trace green accessory mineral, trace mica, calcareous indurated tite.
- 4960-70 Shale and sandstone as above with good trace siltstone green, gray-green, calcareous, argillaceous, sandstone becoming argillaceous.
- 4970-80 Interbedded shale, siltstone and sandstone as above (fair trace sandstone) trace varicolored nodules limestone.
- 4980-90 Shale varicolored, sub-waxy lustre slightly calcareous, with scattered silty streaks, trace limestone buff, light tan, crypto xln, trace sandstone.

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- 4990-5000 Shale varicolored, with moderate trace sandstone, white, light green-white, very light gray, fine to medium grained, angular to sub-angular, clear frosted with occasional light pink and orange quartz grain, and gray to black and red chert grains, trace green accessory mineral trace mica, calcareous with argillaceous streaks, firm, tite slightly gas show.
- 5000-10 Sandstone, as above with black carbonized wood fragment no to slight porosity trace varicolored shale.
- 5010-20 Interbedded sandstone and shale as above.
- 5020-30 Shale varicolored with silty and sandy inclusions trace pyrite.
- 5030-40 Shale, varicolored with scattered silty inclusions very weak trace sandstone.
- 5040-50 Shale, varicolored.
- 5050-60 Shale varicolored with trace very silty and sandy inclusions
- 5060-70 Shale, varicolored with trace silty and sandy inclusions.
- 5070-80 Shale varicolored with white trace silty and sandy inclusion
- 5080-90 Shale varicolored, (predominate reds and purple) sub-waxy, meta-bentonite, slightly calcareous with scattered silty streaks, weak trace very light gray, very fine grained, calcareous sandstone, trace gypsum.
- 5090-5100 Same as above.
- 5100-10 Shale varicolored, with trace limestone, buff, buff, tan, crypto xln, trace sandstone white, very light gray, fine grained, calcareous.
- 5110-20 Shale, varicolored becoming more silty trace siltstone sandstone, light green, very light gray, white, very fine to fine grained, calcareous slightly argillaceous firm, tite, trace limestone as above with same varicolored
- 5120-30 Sandstone, white, very light gray-white, very light green-white, very white, fine to medium coarse grained, angular to sub-rounded, clear frosted, white, with trace pink and orange, with trace black, gray and red chert grains, trace black and green accessory minera, micaceous calcareous, with scattered green argillaceous inclusions, firm to friable with scattered poor porosity no show fair trace shale trace limestone.
- 5130-40 Sandstone as above with trace pyrite, with slightly more porosity, very slightly gas kcik , (20 units methane) with fair trace varicolored shale.
- 5140-50 Sandstone as above firm tite no porosity trace pyrite trace varicolored shale, predominate purple and red
- 5150-60 Shale varicolored, with predominate reds and purples, trace sandstone as above very weak trace limestone

DEKALB NO. 2 UTE RAIL UNIT

- 4670-80 Sandstone, light lavender, light lavender-gray, light purple, very fine to medium grained, angular to sub-rounded, varicolored quartz and chert grains, trace mica, calcareous, slightly argillaceous, friable to very firm, tite, no whow trace varicolored shale trace gypsum.
- 4680-90 Shale varicolored, with trace silty and sandy inclusions trace varicolored with nodules limestone.
- 4690-4700 Shale varicolored with very silty and sandy inclusion trace varicolored nodules limestone.
- 4700-10 Shale varicolored with silt and sandy inclusions.
- 4710-20 Shale varicolored with silty inclusions.
- 4720-30 Shale, varicolored trace dark gray, green-gray, firm splintry shale.
- 4730-40 Shale, varicolored with silty inclusions trace splintry shale, trace varicolored nodules limestone.
- 4740-50 Shale varicolored, with silty inclusions weak trace varicolored nodules limestone.
- 4750-60 Shale as above with trace sandstone lavender, lavender gray, very fine to medium grained, calcareous slightly argillaceous.
- 4760-70 Shale, varicolored with silty and sandy inclusions trace black, green-gray, gray, splintry shale.
- 4770-80 Shale as above.
- 4780-90 Shale, varicolored, but predominate reusty-red, purple-red, red-brown, very silty.
- 4790-4800 Shale as next above with weak trace nodules limestone.
- 4800-10 Shale as above very weak trace nodules limestone.
- 4810-20 No sample- trip.
- 4820-30 Shale varicolored, sub-waxy, meta-bentonite, slightly calcareous firm, with silty streaks.
- 4830-40 Shale as above with trace sandstone, white, very light gray-lavendar, lavender-white, very fine to medium grained, calcareous firm tite trace nodules limestone.
- 4840-50 Shale as above becoming predominate green-gray, good trace nodules limestone, buff, very light gray and trace varicolored.
- 4850-60 Shale as above with trace very light orange-white mottled very limy shale, soft sub-chalky.
- 4860-70 Shale varicolored, with trace interbedded siltstone and sandstone white, light lavender-white, lavender fine to medium grained, calcareous firm, tite, trace gypsum.
- 4870-80 Shale, varicolored slightly more silty, trace sandstone as above.
- 4880-90 Shale, varicolored, sub-waxy lustre slightly calcareous with scattered very silty streaks, meta-bentonite.

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- 5160-70 Shale varicolored with predominate reds and purples trace, scattered silty inclusions.
- 5170-80 Shale, varicolored as above reds and purples with scattered silty inclusions weak trace sandstone white, light green-white, very fine to fine grained, slightly argillaceous, calcareous micaceous firm, tite.
- 5180-90 Shale as above with increase in siltstone, sandstone white, light green, very fine to fine grained, slightly argillaceous, calcareous, micaceous, firm tite, no show.
- 5190-96 Sandstone, light green-white, very light gray-white, white, fine to medium grained, angular to sub-angular clear frosted with light pink, light orange quartz grains, trace black gray, and red chert grains, with trace green and black accessory mineral, micaceous calcareous, with very light green shaley inclusions fair sorting, firm, tite with trace very poor porosity no show fair trace shale varicolored.
- 5196-5200 Sandstone as above with considerable varicolored shale.
- 5200-10 Shale varicolored, predominate, reds and purples trace sandstone as above moderate trace limestone light buff, light buff gray, crypto xln den tite.
- 5210-20 Sandstone white, very light gray-white, light green-white fine to medium grained, angular to sub-rounded, clear frosted, with trace light orange, light pink quartz grains and trace light gray, black white, and red chert grains, trace mica, brite, green shale inclusions with calcareous firm, with trace very poor porosity no show, fair trace varicolored shale.
- 5220-30 Shale varicolored with good trace sandstone as above.
- 5230-40 Shale varicolored with fair to good trace sandstone as above.
- 5240-50 Shale varicolored, sub-waxy lustre, meta-beintonite slightly calcareous, firm, with scattered silty inclusions.
- 5250-60 Shale varicolored as above predominate red-purple, red-brown very white, trace sandstone.
- 5260-70 Shale as above with trace varicolored limestone, trace siltstone, sandstone, white, light green-white, very light gray fine to medium grained angular to sub-rounded clear frosted, with trace light orange, light pink, greens and trace black to gray to red chert grains, slightly micaceous, calcareous with scattered light green shaly inclusions, firm tite.
- 5270-80 Shale and sandstone as above with increase in sandstone (40%) trace limestone very light gray, very light tan.
- 5280-90 Shale and sandstone as above with 40% weak trace limestone.

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- 5290-5300 Shale varicolored, firm sub-waxy lustre, slightly calcareous, with scattered, silty inclusions weak trace sandstone as above.
- 5300-10 Shale varicolored, with silty inclusions, trace gypsum.
- 5310-20 Shale varicolored with silty inclusions trace sandstone white, light green-white, very fine to fine grained, calcareous.
- 5320-30 Shale, varicolored, with very scattered silty inclusions weak trace gypsum.
- 5330-40 Shale as above with weak trace white, very fine grained calcareous sandstone, trace limestone nodules.
- 5340-50 Shale as above with trace white, very fine grained calcareous sandstone, trace limestone nodules.
- 5350-60 Shale as above with trace sandstone white, very light tan, fine to medium grained, angular to sub-angular, clear frosted, light orange and pink quartz grains. with trace black, gray and red chert grains, micaceous calcareous firm tite trace limestone nodules.
- 5360-70 Shale varicolored with trace black very carbonaceous shale trace limestone nodules, very weak trace sandstone
- 5370-80 Shale, varicolored, with trace gilsonite along, limestone frac, weak trace limestone, light gray to buff, very weak trace sandstone.
- 5380-90 Shale as above trace limestone nodules with trace sandstone, with, white, very light gray, fine to medium grained, angular, sub-angular, quartz and chert grains slightly micaceous calcareous.
- 5390-5400 Shale as above with trace gypsum trace very light gray, pink and gray, red-gray, crypto xln limestone.
- 5400-10 Shale varicolored.
- 5410-20 Shale, varicolored as above with fair trace sandstone white, very light gray, fine to medium grained, angular to sub-rounded clear, frosted, very light orange, very light pink, quartz grains, with trace black, gray red chert grains, trace mica, very calcareous, clean firm, tite, no show.
- 5420-30 Shale varicolored as above, with good trace sandstone white, very light gray, very light green-white, fine to medium grained, very calcareous, micaceous firm, tite, no show, trace limestone nodules.
- 5430-40 Shale varicolored with trace sandstone as above.
- 5440-50 Shale, varicolored with weak trace siltstone, sandstone, white, light green-white, very fine to fine grained, calcareous, slightly micaceous with trace limestone, tite

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- 5450-60 Shale as above with moderate trace sandstone, white, light green-white, very fine to medium grained, angular to sub-angular clear frosted, very light orange, very light pink, with trace black and gray chert trace mica, trace black and green accessory mineral, calcareous firm tite, trace limestone as above.
- 5460-70 Shale, rusty-brown, red-purple, red-green, red-tan, yellow-yellow-red, with considerable very light blue green, sub-waxy lustre, meta-bentonite, slightly calcareous with very scattered silty streaks, weak trace sandstone.
- 5470-80 Shale as above with fair trace sandstone white, very light green-white, fine to medium grained, angular to sub-angular, clear frosted very light pink, very light orange, with trace black and gray, chert grains, trace mica, calcareous, firm tite no show.
- 5480-90 Shale, as above with moderate to firm trace sandstone as above.
- 5490-5500 Shale as above with weak trace moderate trace sandstone as above.
- 5500-07 Shale, varicolored, with trace siltstone and sandstone light green, very light gray-green white, very fine to fine grained, calcareous.
- 5507-10 Shale, red-brown, purple-red, red-green, light to dark gray, green-gray, yellow, meta-bentonite, sub-waxy lustre, slightly calcareous, with trace sandstone, white, very light gray, very fine to medium grained, angular to sub-rounded, clear frosted, very light orange very light pink quartz grains, with trace black and gray chert grains, trace mica and green accessory mineral calcareous, firm tite, slightly argillaceous, trace limestone nodules.
- 5510-20 Shale as above predominate, dark red-brown, fair trace sandstone as above very weak gas kick 8 units.
- 5520-30 Interbedded shale as above and sandstone, as above with trace very poor porosity, weak trace gas kick, 34 units, trace limestone nodules.
- 5530-40 Shale as above predominate dark red-brown, with very fair trace sandstone as above very weak gas kick.
- 5540-50 Shale as above predominate dark red-brown, with scattered silty inclusions, weak trace sandstone as above. trace varicolored micro limestone nodules, trace gypsum.
- 5550-60 Shale as above gray-green, and dark red-brown, trace light green-gray, siltstone very argillaceous.
- 5560-70 Shale as above with trace siltstone, sandstone, white, light gray, very light green-gray, very fine to medium grained, calcareous with scattered very argillaceous streaks trace limestone nodules.

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- 5570-80 Shale as above predominate dark reusty-red, weak trace siltstone and sandstone as above.
- 5580-90 Shale as above predominate dark rusty-red, with very weak trace siltstone and sandstone as above very weak limestone nodules.
- 5590-5600 Shale, dark rusty-red, and gray-green, gray, yellow-gray, meta-bentonite, sub-waxy lustre, slightly calcareous, very shaly, micro micaceous, with weak trace sandstone white, very light green-white, fine to medium grained, calcareous, white trace limestone
- 5600-10 Shale as above with silty streaks fair trace sandstone, wgrite, very light green-white, very fine to medium grained, angular to sub-rounded, clear frosted, with varicolored quartz grains trace black and gray chert trace green accessory mineral, trace mica calcareous tite.
- 5610-20 Shale dark rusty-red, red-brown, purple-red, light gray, light green-gray, yellow-gray, meta-bentonite, sub-waxy lustre, slightly calcareous with very scattered silty streaks, fair trace interbedded sandstone white, very light green-white, very light gray-green, very fine to medium grained, angular to subrounded, clear frosted, very light orange very light pink quartz grains, with trace gray to black chert grains, trace mica and green accessory mineral calcareous trace green-gray, shaly inclusions firm tite, very weak gas kick 16 units methane.
- 5620-30 Shale as above with interbedded sandstone as above very weak trace gypsum.
- 5630-40 Shale as above predominate very dark rusty-red, red-purple, very weak trace sandstone as above trace light gray green, firm, siltstone, weak trace limestone nodules.
- 5640-50 Shale varicolored with silty streaks, weak trace sandstone.
- 5650-60 Shale as above with silty streaks moderate trace sandstone, no show.
- 5660-70 Shale as above with moderate trace sandstone very light gray, very light green-gray, very fine to fine grained calcareous firm tite.
- 5670-80 Shale red-brown, red-purple, sub-waxy lustre, meta-bentonite slightly calcareous with fair trace sandstone as above firm tite, no show.
- 5680-90 Shale as above with trace sandstone as above with trace poor porosity.
- 5690-5700 Shale as above with trace sandstone.
- 5700-10 Shale varicolored with scattered trace siltstone inclusions very weak trace sandstone as above.

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- 5710-20 Shale as above with fair trace siltstone, sandstone, very light gray, very light green-gray, very fine to fine grained, calcareous slightly micaceous firm tite now show.
- 5720-30 Shale as above with very good trace interbedded sandstone, white, very light gray, very light green-white, very fine to medium grained, angular to sub-rounded, clear, frosted, very light orange, light pink with trace black and gray chert trace green and black accessory mineral trace mica, calcareous, slightly argillaceous kaolinitic, firm, tite with scattered trace poor porosity, no show.
- 5730-40 Shale as above with trace sandstone as above.
- 5740-50 Shale, varicolored, with very scattered silty streaks, trace varicolored limestone.
- 5750-60 Shale as above with increase in green-gray shale, scattered silty streaks.
- 5760-70 Shale varicolored.
- 5770-80 Shale, varicolored with trace siltstone and sandstone inclusions.
- 5780-90 Shale varicolored with trace siltstone and sandstone inclusions.
- 5790-5800 Shale varicolored with siltstone and sandstone inclusions.
- 5800-10 Shale varicolored as above with considerable green, gray-green, shale.
- 5810-20 Shale varicolored as above with trace siltstone, sandstone, very light gray, white, very fine to fine grained calcareous.
- 5820-30 Shale varicolored, predominate red-brown, trace sandstone, white, very light gray, very fine to fine grained, calcareous to limy firm, tite, trace limestone.
- 5830-40 Shale as above with trace sandstone white, very light gray, very fine to medium grained, as above with very limy streaks trace coal.
- 5840-50 Shale as above with weak trace sandstone and siltstone with trace black carbonaceous inclusions trace limestone nodules.
- 5850-60 Shale varicolored with silty and sandy inclusions.
- 5860-70 Shale varicolored with silty and sandy inclusions.
- 5870-80 Shale as above with shale light gray-green, very dark gray-green, sub-waxy meta-bentonite with very sandy and silty inclusions trace black carbonaceous shale.
- 5880-90 Shale as above with trace black, dark gray, green-gray green-gray, silty, very sandy carbonaceous shale.

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- 6020-30 Shale varicolored, sub-waxy lustre, meta-bentonite, slightly calcareous, with scattered silty inclusions, with varicolored den limestone nodules, very weak trace sandstone.
- 60-30-40 Shale as above with fair trace sandstone, white, very light gray, very fine to fine grained, occasional medium grained, angular to sub-angular clear frosted, with occasional trace very light pink, very light orange, quartz grains, trace black, gray chert grains, trace mica, occasional very light green shale inclusions, slightly calcareous, kaolinitic, firm to slightly friable with scattered trace very poor porosity.
- 6040-50 Shale as above with considerable lavender, with moderate trace sand as above, trace black, carbonaceous shale.
- 6050-60 Shale, light to very dark gray, black, lavender, red-brown, purple-red, very firm, meta-bentonite, with carbonaceous streaks, slightly calcareous, weak trace sandstone, white, slightly salt and pepper, very fine to fine grained, calcareous.
- 6060-70 Shale as above with very carbonaceous streaks, very weak trace sandstone.
- 6070-80 Shale as above with fair trace siltstone, sandstone, light gray, light tan-gray, white, very fine to fine grained, calcareous to limy, very firm tite, no fluorescence, no cut with CCl_4 , no show gas.
- 6080-90 Shale as above becoming drab-varicolored, moderate, trace sandstone as above.
- 6090-6100 Shale as above becoming predominate gray, trace siltstone and sandstone.
- 6100-10 Shale as above becoming predominate gray, trace siltstone and sandstone, trace limestone buff, gray, crypto xln.
- 6110-20 Shale, red-purple, dark to light red-brown, purple, yellow trace light gray, green-gray, sub-waxy, meta-bentonite, slightly calcareous, with scattered, silty streaks, trace sandstone light gray, white, very fine to fine grained, calcareous to limy, slightly micaceous, very firm, tite.
- 6120-30 Shale as above with sandstone as above (40%).
- 6130-40 Shale as above with sandstone as above (60%).
- 6140-50 Siltstone, sandstone, very light gray, gray, very fine to fine grained, with occasional, medium grained, streaks, angular to sub-rounded, clear, frosted, with occasional light pink light orange quartz grains, trace black and gray chert grains, slightly micro-micaceous, calcareous to limy, very firm, tite, trace light gray, soft bentonite streaks trace shale
- 6150-60 Limestone, dolomite limestone, light gray, buff-gray, crypto to micro-xln, with very silty and sandy zones.
- 6160-70 Interbedded brite varigated shale and sandy, and silty limestone as above.
- 6170-80 Shale varicolored with trace silt and sandstone inclusions

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- 6180-90 Shale as above with fair trace sandstone, white, light gray, buff-gray, very fine to medium grained, angular to sub-angular, clear, frosted, with occasional, very light orange, very light pink, very light amber, calcareous to limy quartzitic appearance, slightly micro-micaceous, no porosity, no show.
- 6190-6200 Shale varicolored as above, with slightly more salt and pepper appearance, more mica, with weak trace very poor porosity, no show.
- 6200-10 Shale as above predominate, red-brown, red-purple, trace gray-green-gray, trace limestone nodules.
- 6210-20 Shale varicolored fair trace silt and sandstone, very light gray, very fine grained, calcareous to limy.
- 6220-30 Shale varicolored, fair trace silts and sandstone, very light tan, very fine grained, calcareous to limy trace limestone nodules.
- 6230-40 Shale as above with good trace siltstone, sandstone as above calcareous to limy tite, no show.
- 6240-50 Shale as above with fair trace siltstone, sandstone as above.
- 6250-60 Limestone, light tan, buff-tan, buff, crypto to micro xln, slightly micro-micaceous, with scattered silty and sandy streaks, with trace varicolored shale, trace gypsum, trace black, very carbonaceous shale.
- 6260-70 Interbedded shale, red-brown, purple-red, yellow, gray-red, light gray, gray, dark gray, sub-waxy silty meta-bentonite, slightly calcareous and siltstone, sandstone light gray, white, light gray, very fine to fine grained calcareous firm, tite.
- 6270-80 Shale and sandstone as above with trace light gray, medium grained, calcareous shale, trace varicolored, limestone nodules.
- 6280-90 Shale varicolored, as above with limestone, very light gray, very light green-gray, brown, tan, crypto xln with silty and sandy streaks, trace varicolored limestone nodules.
- 6290-6300 Shale as above with trace limestone, and limestone nodules trace silty and sandy streaks.
- 6300-10 Shale as above with considerable limestone, light gray, green-gray, gray-buff, crypto xln, with scattered very silty streaks, slightly micro-micaceous, trace varicolored shale.
- 6310-20 Limestone, as above with trace very thin red shale inclusions trace pyrite.
- 6320-30 Limestone as above with thin bedd, varicolored shale and light gray, sandstone inclusions.

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- 6330-40 Limestone, very light gray-tan, light gray-brown, buff-gray, light gray, crypto to micro-xln, brittle, den tite, frac, with calcareous, filled frac, trace siltstone and varicolored shale.
- 6340-50 Shale, varicolored sub-waxy, calcareous, meta-bentonite with interbedded siltstone light gray, light green-gray very limy.
- 6350-60 Siltstone, sandstone, white, very light gray, buff-gray very fine to fine grained, limy, firm, tite, trace varicolored shale.
- 6370-80 Siltstone sandstone as above with trace limestone, buff, light tan, den tite, trace varicolored shale.
- 6380-90 Limestone, light tan, buff, light gray, crypto to micro xln, with silty and very sandy streaks, den tite, trace varicolored shale.
- 6390-6400 Interbedded limestone light gray, very light gray-green, crypto xln, with very silty and sandy streaks, firm, tite, and varicolored shale.
- 6400-10 Limestone as above with very light gray-tan, tan crypto xln, limestone, trace silty and sandy streaks trace varicolored shale.
- 6410-20 Limestone and varicolored shale as above trace gypsum.
- 6420-30 Shale rusty-red, red-purple, light to very dark gray, black, green-gray, sub-waxy, meta-bentonite, slightly calcareous, with scattered silty inclusions, with trace limestone as above very weak trace sandstone, white, very fine to fine grained.
- 6430-40 Interbedded shale as above and very silty and sandy, den light gray, buff, limestone.
- 6440-50 Interbedded shale as above trace gypsum, and increase in limestone, as above.
- 6450-60 Shale varicolored, with trace soft, lumpy, very bentonite light buff, very light orange, shale, trace very sandy limestone as above.
- 6460-70 Shale varicolored as above with fair trace sandstone, white, very light gray, salt and pepper, fine to medium grained, angular to sub-angular, clear frosted quartz grains, with trace black and gray chert grains, trace black accessory mineral very slightly micro-micaceous, calcareous, clean, fair sorting, slightly quartzitic, firm, tite.
- 6470-80 Sandstone as above trace coarse grained sandstone, with trace interbedded, black, very dark gray, carbonaceous shale, trace varicolored shale, (Sandstones are becoming very similar to KmV sandstone).
- 6480-90 Siltstone, and sandstone as above with good to very old shale, very poor sample.
- 6490-6500 Sandstone, white, very light gray, very slightly salt and pepper, angular with, clear, frosted, very light amber quartz grains occasional trace gray to black chert grains, trace pyrite, calcareous firm tite no whow trace varicolored shale.

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- 6500-02 Sandstone, as above with trace very poor porosity trace pyrite, slightly gas kick in mud (26 units methane) trace varicolored shale.
- 6502-10 Sandstone as above with occasional trace medium grained sandstone, trace very poor porosity, slight gas kick.
- 6510-20 Interbedded, shale light to dark gray, with trace red-brown, purple-red, sub-waxy, calcareous, firm, sub-fissile, and sandstone very light gray, gray, very fine to fine grained with occasional trace medium grained and coarse grained, streaks, angular to sub-rounded clear frosted, with occasional very light amber, quartz grain with trace black and gray, chert grain, slightly calcareous, kaolinitic quartzitic, tite, no show, weak trace coal, weak trace buff, very light gray, gen limestone.
- 6520-30 Shale, red-brown, purple-red, red-yellow, light to very dark gray, black, gray-green, with scattered limestone nodules and with scattered, silty and very sandy inclusions trace pyrite, trace fossil bone fragment
- 6530-40 Shale as above with slightly increase in gray to black shale, and with sandy inclusions trace pyrite.
- 6540-50 Shale as above with trace sandy inclusions trace limestone and limestone nodules.
- 6550-60 Shale varicolored with trace black, dark gray carbonaceous shale, trace sandstone trace limestone.
- 6560-70 Shale as above with trace siltstone, and sandstone inclusions, trace limestone.
- 6570-80 Shale, red-brown, purple-red, and light trace dark gray-gray-green, poor sample.
- 6580-90 Shale light to dark gray black with red-brown, purple-red firm, blocky to sub-fissile, slightly calcareous, with trace lignitic streaks.
- 6590-6600 Shale, light gray-green, light gray, firm, blocky, very slightly calcareous, with trace very light gray limestone inclusions, trace lignitic inclusions, trace varicolored shale, trace silty and sandy inclusions.
- 6600-10 Shale, very drab varicolored with predominate of gray to black carbonaceous, sub-waxy shale, trace sandstone, trace limestone.
- 6610-20 Shale as above with good trace limestone, light tan, buff-tan, gray-tan, crypto to micro-xln, brittle with very silty streaks, pseudo-oil stained appearance, with weak trace sandstone, tan, very fine grained, limy no porosity no fluorescence no show.
- 6620-30 Sandstone, white, very light gray, slightly salt and pepper, very fine to fine grained, angular to sub-angular clear, frosted, with occasional light to dark amber, quartz grain, and trace black to gray chert grains, trace mica, calcareous, slightly kaolinitic, quartzitic very scattered slightly fluorescence no cut with CCl4, weak trace shale as above.

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- 6630-40 Sandstone, white, very light gray, slightly salt and pepper, fine to medium grained, angular to sub-rounded clear frosted, with occasional very light pink very light amber, with trace black chert trace black accessory mineral, trace black carbonaceous inclusions weak trace mica, calcareous, slightly kaolinitic, trace pyrite, fairly clean, well developed, friable to firm with scattered trace very poor porosity, light blue-gray fluorescence, no cut with very slight gas kick in mud, (16 units methane) trace black to dark gray, carbonaceous-shale inclusions.
- 6640-50 Sandstone as above sub-quartzitic, trace pyrite, with trace black and gray, carbonaceous shale inclusions.
- 6650-60 Sandstone as above sub-quartzitic trace pyrite, trace coal, trace gray-gray-green, red-brown shale.
- 6660-70 Sandstone as above sub-quartzitic trace pyrite, trace coal, with occasional, coarse grained, very light pink very light orange, clear frosted, and trace gray to black chert graind, moderate trace shale varicolored.
- 6670-75 Sandstone, white, very light gray, salt and pepper, fine to medium grained, slightly medium coarse grained, angular to sub-rounded, clear, frosted, with very pink very light orange very light amber, quartz grains, with trace black light gray-tan, light gray, chert grains, trace black accessory mineral trace very light green clayey inclusions trace black carbonaceous flecks, slightly calcareous, kaolinitic, well developed, poorly sorted, very firm to friable, with scattered very poor to poor porosity trace black shale inclusions, trace pyrite, no fluorescence or cut 40 units methane from mud.
- 6675-80 Sandstone as above tightly cemented with kaolinitic and calcite, trace black to gray shale inclusions with very poor to poor porosity.
- 6680-85 Sandstone as above tightly cemented with kaolinitic and calcite trace black and gray gray-green, shale inclusions.
- 6685-88 Sandstone as above with tightly cemented, with kaolinite and calcite with fair trace coal, lignitic shale.
- 6688-90 No sample.
- 6690-6700 Shale very light gray-green, light green, light to medium gray, trace red-purple, red-brown, sub-waxy, meta-bentonite slightly calcareous with scattered silty streaks trace black very carbonaceous, shale, trace sandstone as above.
- 6700-10 Shale as above trace black carbonaceous shale trace sandstone.
- 6710-20 Shale as above with slightly increase in varicolored shale trace black carbonaceous shale.

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6720-30 Shale as above with trace black carbonaceous, shale very weak trace coal, trace sandstone white, very light gray, slightly salt and pepper, very fine to fine grained calcareous firm, tite.

6730-35 Shale as above with fair trace sandstone, white, very light gray, very light green-white, very fine to fine grained, angular to sub-angular clear, frosted, with occasional, very light orange, and pink quartz grains, trace black and gray chert grains, weak trace mica, calcareous, kaolinitic, firm, tite, slightly gas kick in mud 20 units methane.

6735-39 Sandstone as above with trace mediu grain, with quartzitic streaks, trace black carbonaceous inclusions, fair trace shale as above.

Core # 1, 6739-6763½ Cut 24½ Received 24½
10,6,4,4,4,4,4,4,5,4,5,5,5,5,6,6,6,7,5,7,6,6,4

6739-40 Sandstone, very light gray, light gray-white, slightly salt and pepper, very fine to fine grained with scattered medium grained, angular to sub-angular, clear, frosted, with light pink and very light orange quartz grains, with trace black and gray, chert grains, micaceous, trace black to brown carbonaceous flecks, slightly calcareous with white, matrix material (kaolinitic?), slightly quartzitic, tite, no porosity, to weak trace very poor porosity, slightly distillate odor, very scattered speckled brite blue, yellow-blue fluorescence, no cut with CCl₄, trace styolitic frac, with black carbonaceous shale lining.

6740-41 Sandstone as above becoming predominate, medium grained, with increase in dark gray to black chert, and black carbonaceous inclusions, trace very thin very shiney, black gilsonite veinlets with pyrite, scattered very poor porosity, slightly distillate odor, scattered to fair speckled brite blue, blue-yellow fluorescence.

6741-42 Sandstone, light gray, salt and pepper, medium grained, trace very fine to fine grained, angular to sub-rounded clear, slighly frosted, occasional, very light pink, very light orange quartz grains, with trace black to gray chert grains, slightly micaceous, trace black carbonaceous flecks, slightly calcareous with kaolinitic matrix, well developed sandstone, firm, to friable, with scattered, very poor to poor porosity, very weak trace permeable fair distillate odor, good speckled yellow to blue fluorescence slightly cut with CCl₄, weak speckled light brown oil stain trace styolitic frac, filled with black carbonaceous shale and pyrite, trace gilstonite.

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- 6742-43 Sandstone as above with very poor to poor porosity, very weak trace permeability, with fair distillate odor, good speckled yellow, to blue-yellow fluorescence, slightly cut with CCl_4 , weak speckled brown oil stain, trace very thin styolitic frac, filled with black carbonaceous, shale, pyrite, and gilsonite.
- 6743-44 Sandstone as above with very poor to poor porosity very weak trace permeability, fair distillate odor good speckled yellow-blue, brite-blue fluorescenc, slightly cut with CCl_4 , very weak trace light brown oil specks, trace very thin, black, carbonaceous shaly streaks, weak trace pyrite very weak trace gilsonite.
- 6744-45 Sandstone as above with very poor to poor porosity, with weak trace permeability, fair distillate odor, speckled yellow-blue, flourescence, trace thin black carbonaceous shaly streaks.
- 6745-46 Shale as above with poor porosity, with trace permeability, good distillate odor and taste, speckled brite-blue, brite-blue-yellow, flmorescence, with thin black carbonaceous shaly streaks and black carbonaceous, very gilsonitic, shale bands. (1/8" thick)
- 6746-47 Sandstone, very light gray, gray-white, salt and pepper, fine to medium grained, predominate, medium grained, angular to sub-angular clear, frosted, with trace very light pink, very light orange, quartz grains, and trace black to gray chert grains, trace mica, trace black carbonaceous flecks, very weak trace very light green shaly specks, calcareous with kaolinitic matrix, well developed fairly clean, firm to slightly friable, with scattered, very poor to poor porosity, very weak trace permeability, with poor to good speckled brite blue and blue-yellow fluorescence, slightly cut with CCl_4 fair to good distillate odor and taste.
- 6747-48 Sandstone as above with a number of thin firm, tite dark gray to black argillaceous streaks, trace styolitic carbonaceous partings, pyrite, slightly gilsonitic, with scattered poor porosity, good distillate odor, and taste.
- 6748-49 Sandstone as above with occasional, trace dark gray, to black argillaceous, streaks, trace very poor to poor porosity with very weak trace permeability, fair distillate odor and taste.
- 6749-50 Sandstone as above with very scattered occasional, trace dark gray to black argillaceous streaks, trace poor to fair porosity with weak trace permeability fair to good distillate odor and taste.
- 6750-51 Sandstone as above with very poor porosity, trace distillate odor and taste trace dark gray argillaceous, streaks, trace styolitic frac, with black carbonaceous shale trace pyrite,

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- 6751-52 Sandstone, light gray salt and pepper, fine to medium grained angular to sub-rounded, clear, frosted, with occasional, very light pink and very light orange quartz grains, trace black and gray chert, trace mica, trace very light green argillaceous flecks, trace black carbonaceous flecks, slightly calcareous, kaolinitic matrix, sub-quartzitic with trace very poor porosity with weak trace permeability, good distillate odor, good bright-blue, blue-yellow fluorescence with slightly cut with CCl_4 , trace paper thin stylitic shale partings.
- 6752-53 Sandstone as above with considerable, gilsonitic flecks, with numerous paper thin argillaceous streaks trace stylitic partings good distillate odor, very poor porosity, with good trace speckled, bright blue-yellow fluorescence.
- 6753-54 Sandstone as above with good trace gilsonitic veinlets and 1/8" veins, with 15 to 30 degree dip, trace vert. frac, with good light brown oil stain and distillate odor. trace very poor porosity.
- 6754-55 Sandstone as above with trace gilsonitic veinlets trace 1/16" veins good distillate odor, trace light brown oil specks, weak trace re-worked light to very dark gray shale.
- 6755-56 Sandstone as above with considerable paper thin flecks and large spots of gilsonite trace stylitic frac filled with gilsonitic, and carbonaceous shale.
- 6756-57 Sandstone as above with fair trace interbedded very dark gray-brown, to black carbonaceous shale with paper thin to 1/8 thick gilsonite veinlets with interbedded very thin pyrite streaks, sandstone as very poor to no porosity, very weak trace fluorescence, from sample slightly distillate odor.
- 6757-58 Sandstone as above becoming very fine to fine grained, shot through with black to very dark gray-brown, gilsonitic shale trace stylitic shale partings very hard and tight, slightly distillate odor no fluorescence or cut with CCl_4
- 6758-59 Sandstone as above becoming with argillaceous and with considerable black carbonaceous and gilsonitic waffle thin shale partings, no fluorescence very slight odor.
- 6759-60 Sandstone, light gray, salt and pepper, very fine to medium grained, angular to sub-angular, clear frosted, with occasional trace very light pink, very light orange quartz grain and trace gray to black chert slight micaceous with carbonaceous flecks, slightly calcareous kaolinitic matrix, trace waffle thin black to very dark gray argillaceous streaks, trace very poor porosity very weak trace permeability slightly distillate odor no fluorescence.
- 6760-61 Sandstone as above becoming predominately medium grained, with increase in black carbonaceous flecks, fair trace black to gray argillaceous streaks, very faint distillate odor.

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- 6761-62 Sandstone as above predominate, medium grained, strongly salt and pepper, with considerable black carbonaceous specks, scattered black argillaceous streaks, trace sub-fissile streaks, with scattered brite blue, blue-yellow fluorescence specks, moderate distillate odor.
- 6762-63 Sandstone, light gray, salt and pepper, fine to medium grained with predominate, with medium grained, angular to sub-rounded clear, frosted, with occasional, very light pink very light orange, quartz grains and trace black to gray chert grains, trace black carbonaceous flecks, and inclusions, weak trace mica, slightly calcareous, kaolinitic well developed, firm to friable with scattered very poor to fair porosity with trace permeability, strong distillate odor and taste fair trace brite blue, blue-yellow speckled fluorescence slightly wet with CCl₄.
- 6763-70 Shale, light green, light gray-green, light gray with trace reds, and purple, sub-waxy lustre, meta-bentonite, firm blocky, with silty inclusions, fair trace black very dark gray, lignitic shale moderate trace sandstone, light gray slightly salt and pepper, fine to medium grained, slightly calcareous, kaolinitic, tite, trace pyrite.
- 6770-80 Shale and sandstone as above.
- 6780-90 Shale as above with fair trace sandstone, very light tan very light amber-cream, very light cream-tan, very fine to fine grained, angular to sub-angular with porcellanitic matrix, silky lustre, semi-translucent, very firm, tite.
- 6790-6800 Sandstone, very light gray, very light tan, very light amber tan, slightly salt and pepper, very fine to fine grained, angular to sub-rounded, clear, frosted quartz grains, with trace black to gray chert grains, porcellanitic to kaolinitic matrix, fair trace black carbonaceous, plant frag. firm, tite, fair trace black lignitic shale, trace gray-green, green, waxy shale.
- 6800-10 Shale, gray, green-gray, trace black, gray, brown-green, with trace reds, waxy, meta-bentonite, trace sandstone as above.
- 6810-20 Shale as above with weak trace silty and sandy inclusions
- 6820-30 Shale as above with increase in silty and very sandy streaks, trace pyrite.
- 6830 Sandstone, with very light gray, very fine to fine grained, kaolinitic, firm, tite, with considerable shale as above trace lignitic shale.
- 6830-35 Sandstone, very light gray, very light tan-gray, dirty-white, slightly salt and pepper, very fine to fine grained, angular to sub-rounded, clear, frosted light orange, light pink quartz grains, with trace black, gray, red chert grains, trace micro mica, kaolinitic matrix, firm, tite, no show., very slightly gas kick in mud, trace dark gray to black lignitic shale inclusions.
- 6835-40 Sandstone as above with black lignitic shale partings.

- 6840-45 Sandstone as above with black lignitic shale partings.
Core # 2, 6845 - 6884 Cut 39' Received 39'
- 6845-46 Sandstone, very light gray, white, very slightly salt and pepper, fine to medium grained, angular to sub-rounded, clear, frosted with occasional very light pink, very light orange quartz grain, with trace black, gray, brown-gray, chert grains, trace green, shale flecks, trace green to black accessory mineral, kaolinitic matrix, indurated, very tite, no porosity slightly distillate odor.
- 6846-47 Sandstone as above.
- 6847-48 Sandstone as above.
- 6848-49 Sandstone as above.
- 6849-50 Sandstone as above.
- 6850-51 Sandstone, very light gray, white, salt and pepper, fine to medium grained, angular to sub-angular, clear, frosted, with scattered very light pink, very light orange, very light green, quartz grains, with trace black to gray chert grains trace green and black accessory mineral, kaolinitic matrix indurated, very tite, with trace poor porosity, slightly distillate odor.
- 6851-52 Sandstone as above.
- 6852-53 Sandstone as above.
- 6853-54 Shale, brown-black, very dark gray, sub-waxy lustre, trace relief slicken sides very weakly calcareous, very scattered floateng quartz grains, slightly carbonaceous.
- 6854-55 Shale as above.
- 6855-56 Sandstone, white, very light gray, salt and pepper, fine to medium grained, angular to sub-rounded, clear, frosted, with trace orange, very light pink quartz grins, with trace black to gray chert grains to black and green accessory mineral, kaolinitic matrix, indurated tite, trace porosity very slight distillate odor.
- 6856-57 Sandstone as above with scattered, waffer thin gilsonitic and coaly inclusions.
- 6857-58 Sandstone as above with trace very light green clayey flecks trace carbonaceous lined styolitic frac trace carbonaceous plant frag. trace poor porosity with very slightly distillate odor.
- 6858-59 Sandstone ast above with considerable waffer thin coal streaks.
- 6859-60 Sandstone as above.
- 6860-61 Shale, black, dark brown black, sub-waxy lustre, slightly carbonaceous very firm, blocky.
- 6861-62 Sandstone, light gray-tan, dark gray, very fine grained, with light buff-tan, meta-clayey matrix, very firm slightly carbonaceous with trace carbonaceous plant fragment.
- 6862-63 Siltstone, sandstone as above with scattered waffer thin discardant coaly streaks, trace black carbonaceous plant fragment.

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- 6863-64 Siltstone, sandstone, light gray-tan, very fine grained, slightly micaceous, meta-clayey matrix, very firm, tite, with scattered, carbonaceous plant fragment.
- 6864-65 Shale, dark brown-gray, dark brown-black, sub-waxy lustre very firm, blocky slightly silty with scattered floating sand grains, trace black carbonaceous, plant fragment.
- 6865-66 Shale as above slightly more silty,
- 6866-67 Shale, dark gray, firm, blocky very silty with black, dark brown black carbonaceous plant fragment.
- 6867-68 Sandstone, light gray, dirty white, salt and pepper, fine to medium grained angular to sub-rounded, clear, frosted with very light orange, very light pink, quartz grains, with trace black and gray chert grains, trace black, green-black accessory mineral, trace very light green clayey flecks, kaolinitic matrix, indurated, tite, with trace very poor porosity, trace black, brown-black, carbonaceous plant fragment.
- 6868-69 Sandstone as above becoming finer grained slightly salty taste.
- 6869-70 Sandstone as above becoming finer grained very weak poor to porosity.
- 6870-71 Sandstone, light gray, salt and pepper, very fine to fine grained, occasional, medium grained, angular to sub-rounded clear, frosted, very light orange, very light pink quartz grains with black, gray, gray-brown chert grains and black to green-black accessory mineral, kaolinitic matrix tite with scattered poor porosity, trace light gray shale pebbles.
- 6871-72 Sandstone, light gray, salt and pepper, very fine to medium grained, angular to sub-rounded, clear, frosted, with trace light orange very light pink quartz grains, with trace black to gray white, chert grains, trace black, green-black brown-black accessory mineral, trace light or dark gray clayey specks, trace mica, kaolinitic matrix, very slightly calcareous, poorly sorted, indurated, tite, with weak to very poor porosity, no permeability, very slightly distillate odor.
- 6872-73 Sandstone as above.
- 6873-74 Sandstone as above.
- 6874-75 Sandstone as above with trace waffer thin coaly streaks.
- 6875-76 Sandstone as above trace carbonaceous specks.
- 6876-77 Sandstone as above slightly coarser grained, with very scattered poor porosity.
- 6877-78 Sandstone as above slightly coarser grained, with very scattered poor porosity.
- 6878-79 Sandstone light gray, fine grained, with scattered medium grained, as above with considerable, waffer thin coaly streaks and laminations.
- 6879-80 Sandstone as above.

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- 6880-81 Sandstone, light gray, salt and pepper, very fine to medium grained, angular to sub-rounded, clear, frosted, very light orange, very light pink, very light amber, quartz grains with trace black, gray, white chert grain, trace black to green black accessory mineral, trace very light green shaly specks weak trace mica, kaolinitic matrix, fair sorting, well developed sandstone, indurated with scattered poor porosity no permeability
- 6881-82 Sandstone as above.
- 6882-83 Sandstone as above.
- 6883-84 Siltstone, gray, gray-tan, very argillaceous, with scattered micro carbonaceous flecks, very indurated tite.
- 6884-90 Sandstone as above with considerable shale cavings, varicolored etc.
- 6890-6900 Shale, dark gray, black, gray-green, sub-waxy lustre, firm blocky, with trace black lignitic shale, trace sandstone, white very light gray, salt and pepper, fine to medium grained, angular to sub-rounded, clear frosted, with very light pink, very light orange quartz grains, and with trace black to gray chert grains, trace black accessory mineral, slightly calcareous, kaolinitic matrix firm, tite.
- 6900-10 Sandstone as above with good to shale trace lignitic shale, considerable shale cavings.
- 6910-20 Shale, gray, very dark-gray, black, sub-waxy firm with trace varicolored shale (cavings?) trace black lignitic, shale, trace sandstone, as above.
- 6920-30 Shale as above with fair trace sandstone as above.
- 6930-40 Shale light to very dark gray, black, light gray-green, sub-waxy lustre firm to sandstone as above considerable shale cavings.
- 6940-50 Shale as above with considerable varicolored shale cavings trace silt and sandstone.
- 6950-60 Shale gray, very dark gray, dark green-gray, black, sub-waxy lustre, firm blocky, with lignitic streaks carbonaceous plant fragment trace coal, trace siltstone and sandstone, white, very fine to fine grained, calcareous, kaolinitic trace varicolored shale cavings.
- 6960-70 Shale as above with carbonaceous plant fragment, weak trace coal, trace silt and sandstone as above.
- 6970-80 Sandstone, very light gray, white, salt and pepper very fine to fine grained, slightly calcareous kaolinitic, tite, with copious amount dark gray, black shale as above.
- 6980-90q Sandstone as above with shale black, very dark gray, carbonaceous very lignitic firm, blocky with sub-waxy lustre trace varicolored shale.
- 6990-7000 Sandstone white, very light gray, salt and pepper, very fine to fine grained, medium grained, angular to sub-rounded, clear frosted, with trace very light orange, very light pink, quartz grains trace black and gray chert grains, trace black and green black accessory mineral kaolinitic matrix, firm tite no show with fair trace black lignitic shale as above.

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7000-05 Sandstone, white, dirty white, salt and pepper, fine to medium grained as above with trace black carbonaceous shale.

T. D. 7005 Driller

T. D. 7003 Schlumberger

W E L L H I S T O R Y

DEKALB AGRICULTURAL ASSN., INC., ET AL

UTE TRAIL UNIT WELL # 2

NE/4, NE/4 SECTION 17, T-10-S, R-22-E

UINTAH COUNTY, UTAH

OPERATOR: DeKalb Agricultural Association, Inc.
WELL: No. 2 Ute Trail Unit
LEASE: No. U-01196
LOCATION: 660' From North Line, 660' from East Line Section 17, T-10-S, R-22-E
Uintah County, Utah
ELEVATION: 5072' G. L., 5083' K. B.
SPUDDED: May 18, 1959 at 3:00 P. M.
SET SURFACE: May 20, 1959 at 2:15 A. M.
REACHED T. D. July 9, 1959
COMPLETED: Temporarily abandoned, Rig release 2:30 A. M. on July 10, 1959
TOTAL DEPTH: 7005' Driller, 7003' Schlumberger
LITHOLOGY: M. G. Johnson
CASING: Set 13-3/8" Surface Casing, H-40, 48# @ 167', 14' below K. B.,
cemented with 175 sacks regular cement. Cement Circulated.
Set 9-5/8", J-55, 36#, Intermediate Casing @ 2311'. Cemented
with 500 sacks regular cement, plus 2% Ca. Cl. Plug down 11:55 P. M.
June 2, 1959, ran temperature survey, found top of cement at 1511'.
Did not run Production Casing.
PERFORATION: None
PRODUCTION: Temp. Abandoned.
CONTRACTOR: Miracle and Wooster Drilling Company
TYPE RIG: U-15

July 17, 1962

DeKalb Agricultural Assn., Inc.
P. O. Box 523
Vernal, Utah

Re: Well No. Ute Trail Unit #2
Sec. 17, T. 10 S, R. 22 E.,
Uintah County, Utah

Gentlemen:

In checking the Lessee's Monthly Report of Operations" we note that the above well has been reported as shut-in as of November, 1961. Therefore, it would be greatly appreciated if you would send us a completion report of the reworking of said well.

Your attention to the above request will be very much appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE DIRECTOR

CBF:cn

August 23, 1962

Dekalb Agricultural Assn., Inc.
P. O. Box 523
Vernal, Utah

Re: Well No. Ute Tribal Unit #2
Sec. 17, T. 10 S, R. 22 E.,
Uintah County, Utah

Gentlemen:

Reference is made to our letter of July 17, 1962, requesting the completion report on the rework for the above mentioned well. As of this date, we have still not received this information.

Your immediate compliance to this request will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE DIRECTOR

CBF:cnp

OMB
A

Send this file
C

DEKALB

Agricultural Association Inc.
COMMERCIAL PRODUCERS AND DISTRIBUTORS OF AGRICULTURAL PRODUCTS

U. S. Oil Division

P. O. BOX 523
VERNAL, UTAH
TELEPHONE 1073

August 27, 1962

The State of Utah
Oil and Gas Conservation Commission
310 New House Building
Salt Lake City, Utah

RE: Ute Trail Unit # 2
NENE Sec. 17,
T-10-S, R-22-E

Gentlemen:

Pursuant to your request, we are enclosing the workover and recompletion data on the subject well.

Very truly yours

DEKALB AGRICULTURAL ASSN., INC.
U. S. Oil Division

J. F. Tadlock

J. F. Tadlock
Production Drilling Supt.

JFT/lk
CC: W/Attachment

Mr. A. P. Tiddens
Calgary, Canada

Mr. Charles C. Roberts
DeKalb, Illinois

PMB

		X	
	20		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. U - 0574
Unit Ute Trail Sup. #2

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 23, 1964

Well No. 2 is located 2130 ft. from $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$ line and 1820 ft. from $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$ line of sec. 20
 NE $\frac{1}{4}$ Sec. 20 (1/4 Sec. and Sec. No.) 9 S (Twp.) 20 E (Range) SLEM (Meridian)
 Ouray (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 4770 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

It is intended to plug & abandon this well, will move over well with pulling unit, pull tubing, set cast iron cement retainer @ 5800, squeeze across wasatch perforations 6075'-6135', with 150 SXS, set cement plugs as shown below, capwell & set Iron location marker min. 4' above ground level. Clean up level and abandon location. No casing salvage is planned.

Plugging Program

- Plug #1 150 SXS reg. cement squeezed across perforations, dump 15 Sx 100 ft. on top of cast iron retainer.
- Plug #2 25 SXS reg. cement 1500-1300'
- Plug #3 15 SXS Reg. cement 100' -0'
- Plug #4 100 SXS Reg. cement squeezed between 5 1/2" csg & 10 3/4" csg.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DEKALB AGRICULTURAL ASSOCIATION, INC.

Address P.O. Box 523

Vernal, Utah

J.F. Tadlock
By J.F. TADLOCK

APPROVED BY UTAH OIL AND GAS
CONSERVATION COMMISSION

Title Prod. - Drilling Supt.

DATE 5-4-64 by *Paul W. Burchell*
CHIEF PETROLEUM ENGINEER

GPO 862040

(Approval conditional upon attached letter)

D.

DEKALB

Agricultural Association Inc.
COMMERCIAL PRODUCERS AND DISTRIBUTORS OF AGRICULTURAL PRODUCTS

U. S. Oil Division

P. O. BOX 523
VERNAL, UTAH
TELEPHONE 1073

Mr. Paul W. Burchell
Oil & Gas Conservation Commission
310 New House Building
10 Exchange Place
Salt Lake City, Utah

Re: DeKalb Agric. Assoc., Inc.
Ute Trail Unit Wells #2 and #4
Uintah County Utah

Dear Sir:

We enclose for your consideration form 9-331a sundry notice of intention to abandon the above referred to wells, also you will find a copy of the executed form, release of water well, releasing the wells to the U.S. Government, Bureau of Land Management.

In addition to the preceeding, we are attaching a Data sheet, reflecting a brief history, production data and a schematic diagram of the proposed plugging procedure.

Very truly yours,



J.F. TADLOCK
Prod. - Drilling Supt.

JFT/ns

DISREGARD (SEE LETTER DATED 6-18-64)

P110

DATA SHEET
AND ABANDONMENT PROGRAM
UTE TRAIL UNIT #2
NE 17-10S-22E

2" Bull Plug
Welded Steel Plate
over Casing Hanger
2" Gate Valve
to Produce WATER

T.D.: 9244'

P.B.T.D. in 7" @ 6538'

134 @ 167 Tubular Record: 13 3/8" 48# H-40 set @ 167 W/175 SXS.
9 5/8" 36# J-55 set @ 2311 W/500 SXS.
7" 23# & 26# N-8 & J-55 set @ 7005 W/900 SXS.
4 1/2" Liner 11:60# N-80 6790-9244 W/275 SXS.
2 7/8" 6.50# J-55 set @ 4749

Perforations: Wasatch 4903-13,5006-15 & 5135-55

Production Data: Nil, no production except for small amount of test gas.

Initial Potential: Mesa verde high pressure low volume est.
100 MCF/D. Wasatch high pressure low volume
90 MCF/D W/heavy spray of water.

Proposed Plugging Program

Plug #1 Squeeze across perforations W/150 SXS Reg. cement. back off of Howco-R-3 Packer spot 20 SXS reg on top of packer from 4749-4550.

Remove tree and tubing hanger, weld steel plate over casing hanger and leave as an Artesian Water Well.

Remarks: The Mesa verde was plugged off during the completion attempt in the Wasatch in October 1961. This well to be assigned to the U.S. Government Bureau of Land management for use as a water well. Minimum of location work as it is intended to leave the earth pits for use in Livestock Watering.

This Well to be assigned to U.S. Government Bureau of Land Management as a water well.

No Commercial production was found.

DEKALB AGRICULTURE ASS'n., Inc.

J.F. Tadlock

J.F. Tadlock
Prod. Drilling Superintendent

Top of Green River 1100'

TOP WASATCH 4318'

Set HOWCO R-3 @ 4749'

4550 Top of Cement Plug over Packer

4903'
4913'

5006'
5015'

5125'

5155'

← Proposed Plug to Squeeze off Wasatch

← APPROXIMATELY 200' of frac sand on top of cement plug.

← Plug left over mesa verde

Top of Cement Plug 6538'

Mod D Packer @ 6783'

7 @ 7005'

4 1/2" Liner @ 9244'

Scale - NONE
D.F.T. 4-Z-64

PMD

RELEASE OF WATER WELL

WHEREAS, that certain Oil and Gas Lease was made and entered into on May 1, 1951, by and between the United States of America, Lessor, and John H. Morgan, Jr., Lessee, bearing serial number U-01196-C; and

WHEREAS, DEKALB AGRICULTURAL ASSOCIATION, INC., whose address is 404 West Illinois, Midland, Texas, AND Sun Oil Company, AND Petan Company are the present Lessee of record; and

WHEREAS, said Lease provides that there is reserved by the Lessor all rights pursuant to Section 40 of the Mineral Leasing Act of February 25, 1920, (41 Stat.437, as amended) to acquire casing and lease or operate valuable water wells located on said Lease and lands; and

WHEREAS, DEKALB AGRICULTURAL ASSOCIATION, INC., as operator has drilled an oil or gas test well located 660 feet from the North ~~XXXX~~ line and 660 feet from the ~~XXXX~~ East line of Section 17 in Township 10-S, Range 22-E, and said well being located in (1/4 or lot) NENE of the said Section 17, a portion of the above lease, which well appears to contain water of such quality and quantity to be valuable and useable at a reasonable cost for agriculture, domestic or other purposes; and

WHEREAS, the Undersigned, as Lessee and DEKALB AGRICULTURAL ASSOCIATION, INC., as Operator desire to release, relinquish and quitclaim all right, title and interest in and to said well to the United States of America in lieu of plugging same to surface; and

WHEREAS, the United States of America, acting by and through the Secretary of the Interior desires, pursuant to said Lease and said Mineral Leasing Act of February 25, 1920, as amended, to take over said well with the express understanding and agreement that the taking over of such well will not restrict operations of said lease.

NOW, THEREFORE, for and in consideration of the premises, the undersigned has released, relinquished and quitclaimed, and does hereby release, relinquish and quitclaim unto the United States of America, acting by and through the Secretary of the Interior, all right, title and interest in and to said above described well, reserving only the right to operate said well for the production of water therefrom for other operations under this lease during the term thereof.

This instrument, regardless of the date of execution thereof, shall be effective as of _____.

IN WITNESS WHEREOF, the undersigned has executed this Release on this 15th day of April, 1964.

ATTEST:
[Signature]
Secretary

DEKALB AGRICULTURAL ASSOCIATION, INC.
BY: [Signature]
Vice President

APPROVED
BY [Signature]

SUN OIL COMPANY
BY: [Signature]
Attorney-in-Fact

PETAN COMPANY
BY: [Signature]
Attorney-in-Fact

Copy H.C.

OMP

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Lease No. U-01196-G

Unit Ute Trail

			X
	sec.		
	17		

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....		SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

..... May 11,, 19 64

Well No. 2 is located 660 ft. from N/S line and 660 ft. from E/W line of sec. 17

NE NE Sec. 17 10 S 22 E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Bitter Creek Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5082 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

No Commercial production was found in this well, it is intended to plug and abandon. Will move over well with pulling unit, squeeze across wasatch perforations, W/150 SXS Reg. cement pack off of packer spot 200 ft. of cement plug (20 SXS) on packer. Pull tubing strip off well head weld steel plate over casing hanger and release well to U.S. Government Bureau Land Management as a water well. ✓

Remarks Enclosures

1. Data sheet for details of production data. ✓
2. Release of water well executed form. ✓

APPROVED BY UTAH OIL AND GAS
CONSERVATION COMMISSION

DATE 6/15/64 by Paul M. Burchell
CHIEF PETROLEUM ENGINEER

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company DeKalb Agric. Assoc. Inc.

Address P.O. Box 523

Vernal, Utah

By J.F. Tadlock
J.F. Tadlock
Title Prod. - Drilling supt.

DEKALB

Agricultural Association Inc.
COMMERCIAL PRODUCERS AND DISTRIBUTORS OF AGRICULTURAL PRODUCTS

U. S. Oil Division

P. O. BOX 523
VERNAL, UTAH
TELEPHONE 1073

June 13, 1964

Mr. Paul W. Burchell
The State of Utah
Oil and Gas Conservation Commission
310 New House Building 10 Exchange Place
Salt Lake City, Utah

Re: Abandonment DeKalb's Ute Trail Unit
Wells Sun #2, Ute 4, 8, 9 & 14

Dear Sir:

Attached please find three copies each of U.S.G.S. form 9-331, Sundry Notice of intention to abandon the above referred to wells.

Reference is made to your letter of May 4, 1964 concerned with isolation of the Greenriver Formation. After thoroughly discussing the matter with our chief engineer, Mr. C.M. Heglin and the U.S.G.S. we have modified our plugging program to give adequate protection to the zones in question.

We request that you disregard our previous submittal on Form 9-331a dated April 23 and May 11, and base your approval on the attached program.

With reference to the Ute Trail unit #2, this well has been assigned to the U.S. Government as a water well and will be plugged as previously submitted. Also we propose to plug the Ute Trail Unit 11-X as previously submitted, as we plan to leave the intermediate casing in the well, consequently the Greenriver section will be adequately protected by the present plugging program and primary cement.

Upon receipt of approval we wish to begin plugging operations at once, we request that you give this matter prompt consideration. In the event you wish to witness the plugging of these wells we will be pleased to notify you of the exact starting date.

Very truly yours,

DEKALB AGRIC. ASSOC. INC.

J.F. Tadlock
J.F. TADLOCK
Production-Drilling Supt.

JFT/ns

C.C. Mr. C.M. Heglin, Chief Engineer
DeKalb Petroleum

U.S.G.S., Mr. Rodney Smith, Dist. Engineer

*original
copy of report only. etc*

DEKALB

[Handwritten signature]

Agricultural Association Inc.
COMMERCIAL PRODUCERS AND DISTRIBUTORS OF AGRICULTURAL PRODUCTS

U. S. Oil Division
P. O. BOX 523
VERNAL, UTAH
TELEPHONE 1073

August 24, 1964

Mr. Rodney A. Smith
U.S. Geological Survey
8416 New Federal Building
Salt Lake City, Utah

Re: DeKalb Agric. Assoc., Inc.
Ute Trail Unit #2

Gentlemen:

Attached please find the original and first two carbon copies form 9-331 subsequent report of abandonment for the above referred to well.

Very Truly Yours,

DEKALB AGRICULTURAL ASSOC., INC.

J. F. Tadlock

J.F. TADLOCK
Production Supt.

JFT/ns

CC: Mr. Paul W. Burchell
The State of Utah
Oil & Gas Conservation Commission
348 East South Temple
Suite 201
Salt Lake City, Utah

Working Interest Owners

4.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-01196-C

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Ute Trail

8. FARM OR LEASE NAME

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Bitter Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

17-10S-22E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

DeKalb Agric. Assoc., Inc.

3. ADDRESS OF OPERATOR

P.O. Box 523, Vernal, Utah

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

660 FNL, 660 FEL Sec. 17

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5082 D.F.

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDISE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

7-6-64 Move over well with pulling unit, Howco R-3 packer set @ 4749', squeeze across
to Wasatch perms. 4903-5155, W/150 SXS displaced to packer, released packer, spot
7-8-64 25 SXS plug in 7" from 4749-4400'.

7-29-64 Shut in pressure 7" csg. 195 P.S.I S.I.P. between 7" and 9 5/8" Csg. 100 P.S.I.
set Baker 3B. Bridge plug in 7" @ 2850' shut in well for observation August 14,
S.I.P. casing 0 P.S.I., August 24 S.I.P casing 0 P.S.I. S.I.P. between 7"
and 9 5/8" 95 PSLG.

Prep to turn over operations of this well to U.S. Government Bureau of Land Management as a water well.

18. I hereby certify that the foregoing is true and correct

SIGNED J. F. Adcock TITLE Production-Drilling Supt. DATE 8/25/64

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

February 26, 1965

DeKalb Agricultural Association, Inc.
P. O. Box 523
Vernal, Utah

Attention: Mr. J. P. Tadlock, Production-Drilling Supt.

Re: Well No. Ute Trail #2
Sec. 17, T. 10 S., R. 22 E.,
Uintah County, Utah

Gentlemen:

This letter is to advise you that the Subsequent Report of Abandonment and Plugging of the above mentioned well is due and has not been filed with this Commission as required by Rule D-2, General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission. We would also appreciate the date in which said well was assigned to the U. S. Government as a water well.

Thank you for your attention to this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER
RECORDS CLERK

kgw

Enclosed - Forms

SCOTT M. MATHESON
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple

Salt Lake City, Utah 84116

(801) 533-5771

I. DANIEL STEWART
Chairman

CHARLES R. HENDERSON
JOHN L. BELL
THADIS W. BOX
C. RAY JUVELIN

CLEON B. FEIGHT
Director

August 24, 1978

Depco, Inc.
1025 Petroleum Club Bldg.
Denver, Colorado 80202

Re: Well No. Ute Trail Unit #2
Sec. 17, T. 10S, R. 22E,

Well No. Ute Trail Unit #4
Sec. 27, T. 9S, R. 20E,

Well No. Uintah Unit #2
Sec. 35, T. 10S, R. 20E,
ALL Uintah County, Utah

Gentlemen:

In the process of updating this Division's Water Well files, it was noted that we have not received any recent status notification on the above mentioned well(s).

In order to keep our records accurate and up-to-date, please complete the enclosed form OGC-lb, and forward them to this office as soon as possible.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY AVILA
RECORDS CLERK