

* 1-11-62, As of Nov. 1961 this well was connected to gas line
 * Effective 12-8-71, Gas Producing Enterprises, Inc. has purchased from Tenneco Oil this well.

FILE NOTATIONS

Entered in NFD File	<input checked="" type="checkbox"/>	Checked by Chief	<input type="checkbox"/>
Entered on Plot	<input checked="" type="checkbox"/>	Copy NFD to Field Office	<input type="checkbox"/>
Location Map Printed	<input checked="" type="checkbox"/>	Approval Letter	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>	Disapproval Letter	<input type="checkbox"/>
IWR for State Fee Land	<input type="checkbox"/>		

CONTROLLING DATA:

Date Well Completed 9-21-59 Location Inspected _____
 OW _____ WW _____ TA _____ Bond released _____
 SIGW OS _____ PA _____ State of Fee Land _____

LOGS FILED Pressure Build-up curves } duplicate
Well History } copies

Driller's Log 9/24/59
 Electric Logs (No.) 2
 E I E-I GR GR-N Micro
 Lat _____ Mi-L _____ Sonic _____ Others _____

Gamma & Neutron and Cement log

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City
Lease No. State 15-3276
Unit DeKalb, et al # 3
UTE TRAIL UNIT

			X
		16	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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)

July 10, 19 59

Well No. 3 is located 660 ft. from [N] line and 660 ft. from [E] line of sec. 16
NE/4 NE/4 Section 16 T-10-S, R-22-E S. L. M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Utah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. Not Run

DETAILS OF WORK

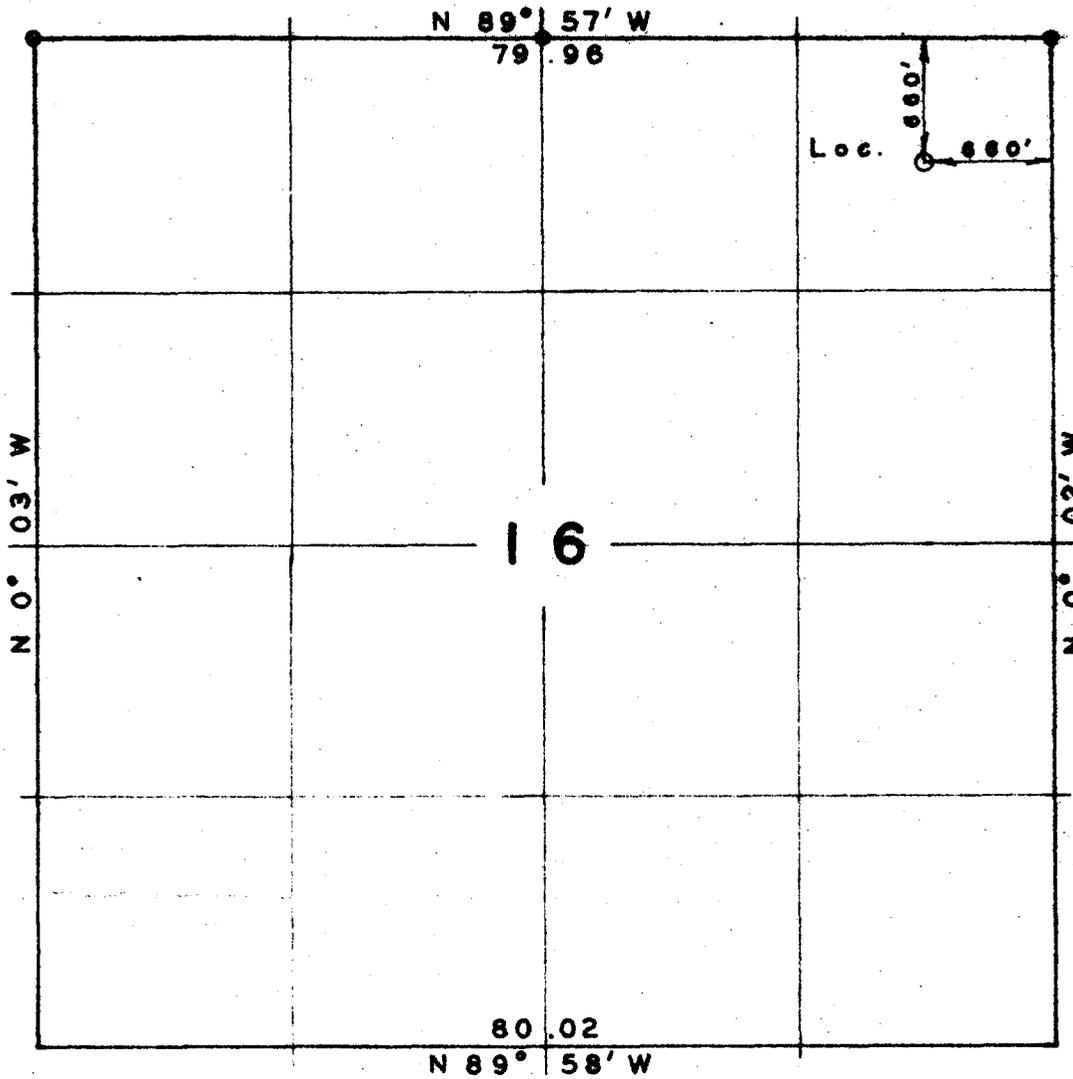
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Will drill with water to approximately 3000' and then with native mud, spagel and water to total depth.
Spud in Uintah Formation, Green River 690', Wasatch 4235', Total depth 5500'.
Will perforate and frac as warranted. Will core and test as warranted.
This well will be to test the Wasatch Formation.
Will set 250' of 13-3/8", 48# surface casing.
Will set 3000' of 6-5/8", 32#, or 7-5/8", 26-10# casing.
Will set to total depth 5-1/2", 15.5# casing.

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
Yermal, Utah
By J. R. Ray
Title Production Supt.

T 10 S, R 22 E



Scale 1" = 1000'

D. J. Ross
 DEKALB COUNTY, UTAH
 1959

○ CORNERS FOUND

ROSS CONSTRUCTION CO.
 VERNAL, UTAH

PARTY N. MARSHALL
 M. SLAUGH
 L. TAYLOR
 WEATHER FAIR

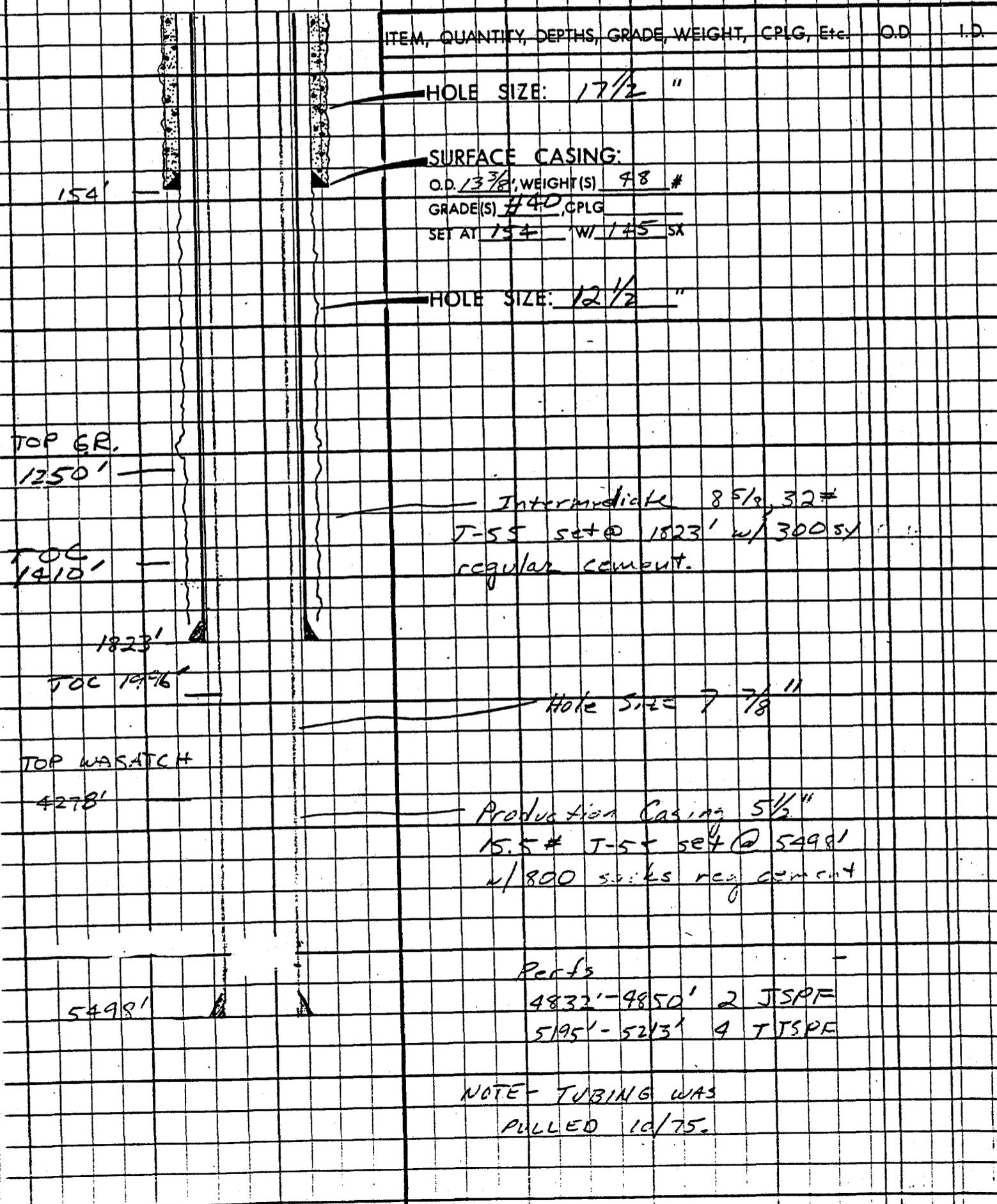
SURVEY
 DEKALB AGRICULTURAL ASSOCIATION INC., ETAL.
 WELL NO. 9 UTE TRAIL UNIT
 NE 1/4 - NE 1/4 - SECTION 16, T 10 S, R 22 E
 SLB & M, UINTAH COUNTY, UTAH.

DATE 13 MAY, 1959
 REFERENCES
 GLO PLAT - 1904
 FILE DEKALB

PRODUCING STATUS: 1/2c Trail #3
 WELLHEAD WORKING PRESSURE: _____

DOWNHOLE SCHEMATIC	
LEASE:	<u>1/2c Trail</u>
WELL #:	<u>3</u>
FIELD:	<u>WBU</u>
LOCATION:	<u>16-7105-R-20</u>
COUNTY/STATE:	<u>1/2c 4th 11/20/11</u>
TD:	<u>5499</u>
PBD:	_____
PERFS:	_____
PROD. FORM(S):	_____
DATE:	_____ BY: _____

KB ELEVATION: _____
 FORM. TOPS _____



July 11, 1959

U. S. Geological Survey
Oil and Gas Leasing Branch
Atten: D. F. Russell
457 Federal Building
Salt Lake City, Utah

State of Utah
Oil and Gas Conservation Commission
310 Newhouse Building
Salt Lake City 11, Utah

RE: DeKalb, et al # 3
Ute Trail Unit
NENE Sec. 16, T-10-S, R-22-E
Uintah County, Utah

Gentlemen:

Enclosed herewith please find certified plat to be attached to our application for "Notice of Intention Drill" the above referred to well, in Uintah County, Utah.

Yours very truly,

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



Clelia Coker

CC/
Encl.

		X
	16	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office State 11-3276
Lease No. 1616, et al 3
Unit Its Trail Unit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	X
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	X
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)

July 22, 1959

Well No. 3 is located 560 ft. from N line and 660 ft. from E line of sec. 16
16-1-1 7-10-1 1-22-1 S. L. N.
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian) Utah
Wilcox Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5117 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)

Drilled 17-1/2" hole to 155', ran 4 joints 13-3/8", 48', J-55, 8-3 casing that measured 141.37', set at 154'. Cemented with 145 sacks Regular Cement plus 2' Calcium Chloride. Cement circulated to surface. Plug down at 11:30 P. M. July 20, 1959. W. O. G. 48 Hours. Test casing with 1,000# psi, held pressure 30 minutes. No indication of pressure drop. Resume drilling.

If and when lost circulation zones are drilled will set approx. 2500', 32", J-55 6-5/8" intermediate casing string.

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

Company BEALD AGRICULTURAL ASSN., INC.
 Address P. O. Box 523
Vernal, Utah
 By J. H. Kay
 Title Prod. Mgr.

			X
	16		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City
Lease No. State HL-3276
Unit DeKalb, et al / 3
UPS TRAIL UNIT

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	X
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)

July 31, 19 59

Well No. 3 is located 660 ft. from [N] line and 660 ft. from [E] line of sec. 16
NE/4 NE/4 Sec. 16 T-10-3 S-22-E S. L. M.
(1/4 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 5117 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 1623'. Dry drilled to 1623'- 12-1/4" Hole. Ran 56 Jts., 8-5/8", J-55, Rg. 2, LTAI and PC&I Casing, set at 1623', cemented with 300 sacks regular cement, plus 25 Calcium Chloride. Plug down July 29, 1959 at 12:10 A. M. W. O. C. 48 Hours. Ran Temperature Survey 12:10 P. M. July 29, 1959 top of cement at 1410'. Pressured casing to 1,000/ psi, 12:10 A. M. July 30, 1959, held pressure 30 minutes, no loss of pressure, will resume drilling.

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 J. R. Ray

Title Production Supt.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
LEASE NUMBER _____
UNIT **UTE TRAIL UNIT**
Uintah County, 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 July, 19 59,

Agent's address Box 523 Company DEKALB AGRICULTURAL ASSN., INC.
Vernal, Utah Signed Saul Tugh
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)
NENE 8	10-S	22-E	1	-0-	-0-	-0-	-0-	-0-	-0-	Shut in for pressure build up. Last test est. 1 million Cu. Ft. Gas per day.
NENE 17	10-S	22-E	2	-0-	-0-	-0-	-0-	-0-	-0-	Temporarily Abandoned
NENE 16	10-S	22-E	3	-0-	-0-	-0-	-0-	-0-	-0-	Drilling in Shale at 2007'
NENE 27	9-S	20-E	4	-0-	-0-	-0-	-0-	-0-	-0-	Blowing and Testing after Frac. Est. of 200,000 Cu. Ft. Gas per day
NENE 23	9-S	20-E	5	-0-	-0-	-0-	-0-	-0-	-0-	Drilling in Hard Rocky Lime at 3352'

NOTE.—There were None 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.

		X
16		

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

Land Office **State # 11-3276**
 Lease No. **DeKalb, et al # 3**
 Unit **the Trail Unit**

71K
8-17

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.....	
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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)

August 14, 1959

Well No. 3 is located 660 ft. from N line and 660 ft. from W line of sec. 16
NE/4 NE/4 Sec. 16, T-10-S R-22-E S. L. M.
(Sec. and Sec. No.) (Township) (Range) (Meridian) Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5117 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 5499', ran Electric logs to total depth.
 Ran 172 lbs., 5-1/2" OD, 15.5#, J-55, Rg. 2 & 3, J & L Casing, measured 5503',
 Set at 5498', cemented with 800 sacks regular cement, plus 2% Calcium Chloride.
 Plug Down at 12:15 A. M. August 12, 1959. Ran temperature survey, found top of
 cement at 1996'. Will perforate and frac intervals to be determined at a later
 date.

Handwritten signature/initials

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 J. B. Ray
 Title Production Supt.

WELL HISTORY

DEKALB, ET AL
#3 UTE TRAIL UNIT
NE NE 16, T-10-S, R-22-E
UINTAH CO., UTAH

OPERATOR: DeKalb Agricultural Association, Inc.

WELL: # 3 Ute Trail Unit

LEASE: State ML-3276

LOCATION: NE NE Section 16, T-10-S, R-22-E (SLM)
Uintah Co., Utah

ELEVATION: 5117.16' G. L. 5128' K. B.

COMMENCED: July 19, 1959

SET SURFACE: July 20, 1959

FROM UNDER SURFACE: July 22, 1959

REACHED TOTAL DEPTH: August 10, 1959

COMPLETED: September 21, 1959

TOTAL DEPTH: 5499' Driller

LITHOLOGY BY: M. C. Johnson

CASING: SURFACE: Set 13-3/8", 48#, J-55 casing at 154' K.B.
with 145 sacks plus 2% CaCl W.O.C. 48 hours
INTERMEDIATE: Set 8-5/8", 32#, J-55, csg. at 1823' K.B.
with 300 sacks regular cement.
PRODUCTION: Set 5-1/2", 15.5#, J-55, csg. at 5498' K.B.
with 800 sacks regular cement.

PERFORATIONS: 5195 to 5213', with 4 Expendable tubing jet shots per
foot. (3/8" hole)
4832 to 4850' with 2 torpedo jet shots per foot (5/8"
hole)

PRODUCTION: 25,000 MCFPD

HOLE SIZE: Drilled 12-1/4" hole to 160' and reamed to 17-1/2" to
155 feet.
Drilled 12-1/4" hole from under surface casing to 1823
feet to facilitate setting intermediate casing.
Drilled 7-7/8" hole from under intermediate to 5499'.

CONTRACTOR: Miracle and Wooster Drilling Company

TYPE RIG: Unit - 15

FORMATION TOPS FROM SAMPLES:

Green River	1250'
Wasatch	4270'
Total Depth	5499'

LOGS:

Schlumberger	Induction Log	1819 to 3954'
		unable to get below brige at 3950'.
McCullough	Gamma-Neutron	350 to 5418'
	Cement Log	1000 to 5418'
Continental Lab	Mud Log	1830 to 3658'
	Lithologic Log	170 to 5499'

DRILLING TIME: One foot drilling time was maintained by means of a Geolograph.

SAMPLE PROGRAM: Ten foot wet samples were caught from under surface casing to total depth except for the interval 1570 to 1823 feet which was dry drilled.

CORES: No cores were cut.

MUD PROGRAM: Drilled with water from surface to 2050 feet. Due to severe lost circulation conditions the interval from 1570 to 1823 feet was dry drilled. At 2050 feet commenced mudding up and used gel and chemical mud to 3659 feet. At 3659 feet converted to gasiated water and drilled to a total depth of 5499 feet using this method of drilling. Every hour one to two sacks of lime was added to the gasiated water to prevent corrosion of the pipe.

LOST CIRCULATION ZONES: The first lost circulation zone was encountered at 1365 feet. A severe lost circulation zone was encountered at 1570 feet and continued to approximately 1700 feet although the entire interval to 1823 feet was dry drilled. After running 8-5/8" intermediate casing to 1823 feet there was no further loss of fluid.

OIL & GAS SHOWS: UINTAH FORMATION: Good brown oil stain was noted in a fine grained sand at 350 to 380 feet, overlying a seam of gilsonite.

BIT RECORD

NO.	SIZE	MAKE	TYPE	DEPTH		FEET	HOURS	COMMENT
				FROM	TO			
1	12-1/4"	HTC	OVS	0	157	157	13	
1A	17-1/2	REED	OVS	0	155	155	7-1/2	
1B	12-1/4	HTC	OSC-3	155	313	158	7-1/2	
2	12-1/4	HTC	OWSV	313	666	353	11	
3	12-1/4	HTC	OWSV	666	1025	359	11-1/2	
4	12-1/4	HTC	OWSV	1025	1126	101	6-1/4	
5	12-1/4	HTC	OWSV	1126	1221	95	10-1/2	
6	12-1/4	HTC	OSC	1221	1278	57	6	
7	12-1/4	HTC	OSC-3	1228	1332	54	3-3/4	
8	12-1/4	HTC	OVS	1332	1401	69	8-1/2	
9	12-1/4	HTC	OWC	1401	1613	212	10-3/4	
10	12-1/4	HTC	OSC-1G	1613	1685	72	9-1/4	
11	12-1/4	REED	YT	1685	1823	138	5	
12	7-7/8	SEC	M4N	1823	2096	276	7-1/2	
13	7-7/8	HTC	OWV	2096	2321	225	7-1/2	
14	7-7/8	SEC	M4N	2321	2490	169	7-1/4	
15	7-7/8	REED	YT	2490	2618	128	5-1/4	
16	7-7/8	HTC	OWV	2618	2764	146	6-1/2	
17	7-7/8	SEC	M4N	2764	2944	180	10-1/2	
18	7-7/8	SEC	M4N	2944	3111	167	12-1/2	
19	7-7/8	SEC	M4N	3111	3227	116	1	
20	7-7/8	SEC	YS-1	3227	3363	136	11-1/4	
21	7-7/8	HTC	OWV	3363	3436	73	8-1/2	
22	7-7/8	HTC	OWV	3436	3549	113	10-1/4	
23	7-7/8	HTC	OWV	3549	3659	110	10	
24	7-7/8	REED	YS-1	3659	4214	555	15-3/4	Commenced
25	7-7/8	REED	YS-1	4214	4633	419	12	Drilling with
26	7-7/8	HTC	OWV	4633	5059	426	12-1/2	Gas & Water
27	7-7/8	HTC	OWV	5059	5495	436	15	at 3659'

SLOPE TESTS:

71' -	1/2°	1464' -	2°
285' -	3/4°	1578' -	2°
533' -	1°	2007' -	1 1/4°
593' -	1-1/4°	2309' -	2-1/4°
773' -	3/4°	2690' -	2°
965' -	1°	3111' -	2°
1265' -	1/2°	3221' -	1-1/4°
1444' -	2°	3318' -	1-3/4°

The gilsonite seam appeared from samples to extend from 380 to approximately 550 feet. Other lenses of gilsonite were encountered at 620 to 650', 790 to 850' and 1080 to 1130 feet.

GREEN RIVER: Scattered poor to fair residual brown oil stain was noted in the mahogany shale and developed sands.

WASATCH: Well developed sands were encountered at 4828 to 4854', 4983 to 5002', 5052 to 5062, 5120 to 5154', and 5192 to 5216 feet.

Since the hole was sloughing while drilling with gasiated water the only practical way to test the sands was to shut the gas and pump off and pull the bit up off bottom. The drilling was shut down for periods of approximately an hour to see if there was a strong continuous gas blow. After the first sand at 4828 feet was encountered and after which a continuous gas blow was noted it was apparent that any gas from succeeding sands would be mashed. Therefore, it is questionable whether or not the other sands in the Wasatch contained gas.

COMPLETION PROCEEDURE:

ZONE 5195 to 5213:

Perforated with 4 tubing jet shots per foot (3/8" hole) Fraced down tubing with 5,000 pounds of 20/40 mesh sand, 10,000 gallons diesel treated with 1,000 pounds Adomite and 6 gallons Fre flow. Initial break down 3100 psi, treating pressure maximum 5000 psi minimum 4900 psi. Average injection rate of treating fluid 11 bbls per min. Shut in for 12 hours. Flowed day gas for 15 minutes then slugs of diesel. At the end of 30 minutes making heavy spray and heading. Settled to flowing 2 bbls fluid per hour, 65% water and 10% diesel oil emulsion.

ZONE 4832 to 4850':

Perforated with 2 torpedo jet shots per foot (52 gram charge, 5/8" hole) Fraced down casing and tubing with 23,000 pounds of 20/40 mesh sand and 16,000 gallons deisel oil treated with 1,500 pounds of Adomite. Formation broke down at 2800 psi. Treating pressure maximum 3700 psi (casing) and minimum 3500 psi (casing)

Average injection rate 30 bbls per min. shut in for 21 hours.

August 28, 1959 opened well at 6:00 A.M. flowed back load oil and considerable amount of gas.

August 29, 1959 opened with tubing pressure 2200 psi and casing pressure 2150 psi at the end of 2 hour flow on 3/4" choke well was making 9,614 MCFD with a back pressure of 1375 psi on tubing and 1500 psi on casing.

August 30, 1959 Opened with 2250 psi on tubing, 2150 psi on casing. On two hour test through 2" tubing open flow made 23,500 MCFGPD with 450 psi back pressure on tubing, 1250 psi back pressure on casing.

DEKALB NO. 3 UTE TRAIL UNIT

- 170-80 Sandstone, gray, fine coarse grained, angular to sub-rounded clear frosted, quartz grains, with gray, black chert grains, trace green black, accessory mineral, micro-micaceous, very slightly calcareous, very argillaceous trace kaolinitic trace orange sandstone as above.
- 180-90 Sandstone as above with trace dark gray, gray, slightly carbonaceous bentonite shale.
- 190-200 Shale gray to black, green, light tan, red-tan, firm, black, slightly dolomitic, with sandy and silty inclusions micaceous, sample burned.
- 200-10 Shale as above with sandy and silty inclusions.
- 210-20 Shale as above with sandy and silty inclusions.
- 220-30 Shale as above with sandy and silty inclusions.
- 230-40 Shale green, gray dark gray, black, purple-gray, firm, blocky, with silty and sandy streaks slightly micro-micaceous, scattered weak trace oil stain.
- 240-50 Shale as above with considerable, silty stone, flesh, pink-gray, very light orange, calcareous, slightly argillaceous, very firm.
- 250-60 Shale light to very dark gray, firm, blocky, very sandy, silty slightly calcareous, micro-micaceous, trace sandstone gray, fine to medium grained, very argillaceous.
- 260-70 Burned,
- 270-80 Siltstone, sandstone, light buff, buff-tan, very fine to fine grained, slightly calcareous, argillaceous quartzitic, with scattered, good brown oil shale, with trace shale, black, gray-green.
- 280-90 Siltstone, sandstone as above with oil stain.
- 290-300 Siltstone, sandstone as above with oil stain with increase in shale.
- 300-10 Shale gray, green-gray, very firm, blocky, with very silty and sandy streaks, micro-micaceous.
- 310-20 Shale as above.
- 320-30 Sandstone light tan, light brown, very fine, fine, medium grained, angular to sub-rounded, clear, frosted quartz grains with scattered gray to black chert grains, trace green to black accessory mineral, micaceous calcareous, slightly argillaceous with good light brown oil stain trace shale as above.
- 330-40 Shale, siltstone, sandstone, light gray, light gray-green, very fine to fine grained, very argillaceous slightly calcareous micaceous, firm.
- 340-50 Burned check other samples.
- 350-60 Sandstone, light tan, light brown, very fine to fine grained, angular to sub-rounded, clear frosted quartz green with black to gray chert grains, trace green and black accessory mineral, micro micaceous, slightly argillaceous, slightly calcareous with good brown oil stain, trace tan, gray shale.
- 360-70 Sandstone, sand as above heavily saturated with brown oil.
- 370-80 Sandstone, sand as above with copious amount gilsonite.
- 380-90 Shale, light green, light gray, light tan, slightly calcareous, sub-bentonite, trace siltstone, light green, light tan is lightly calcareous firm, with good trace gilsonite.

DEKALB NO. 3 UTE TRAIL UNIT

- 390-400 Siltstone, sandstone, tan, light green, light gray, very fine grained, with scattered good brown oil stain copious amount gilsonite.
- 400-10 Siltstone, sandstone, shale with copious amount gilsonite.
- 410-20 Same as above with copious amount gilsonite.
- 420-30 Same as above with copious amount gilsonite.
- 430-40 Same as above with copious amount gilsonite.
- 440-50 Siltstone, shale light tan, green, gray, slightly calcareous, micaceous, good trace gilsonite.
- 450-60 Gilsonite with siltstone and shale as above.
- 460-70 Gilsonite siltstone and shale as above.
- 470-80 Gilsonite with siltstone and shale as above.
- 480-90 Gilsonite with trace siltstone and shale.
- 490-500 Gilsonite with weak trace siltstone and shale.
- 500-10 Gilsonite with weak trace siltstone and shale.
- 510-20 Gilsonite with trace green, very light gray-green, very light tan, shale, trace siltstone, sandstone, tan, very fine grained oil stained.
- 520-30 Gilsonite with good trace siltstone, sandstone, light green, light green-gray, very light gray, very fine grained, calcareous, very argillaceous in part, with interbedded, light gray, gray-green, firm, silty, micro-micaceous, shale.
- 530-40 Gilsonite with fair trace siltstone, sandstone and shale as above.
- 540-60 Gilsonite with trace siltstone, sandstone and shale as above.
- 550-60 Gilsonite with considerable siltstone, sandstone, light gray very light green, very fine to fine grained, calcareous micro-micaceous slightly argillaceous with scattered very light yellow, very light orange, orange oil stain, with fair trace shale light green, light gray-green, gray-tan, firm, blocky slightly calcareous
- 560-70 Siltstone, sandstone, light gray, light green-gray, very light green, very fine to fine grained, calcareous argillaceous with scattered very poor oil stain, trace shale light gray, light green-gray, firm, blocky, slightly calcareous, micro-micaceous fair trace gilsonite.
- 570-80 Siltstone, sandstone shale as above with scattered orange-brown oil stain, trace gilsonite.
- 580-90 Siltstone, sandstone shale, as above scattered brown-orange oil stain weak trace gilsonite.
- 590-600 Siltstone, sandstone, shale as above with scattered fair trace orange brown oil stain, weak trace gilsonite.
- 600-10 Shale green, light gray-green, firm, black, slightly calcareous micro-micaceous, trace sandstone, light tan, light gray green, very fine grained, calcareous argillaceous with brown oil stain.
- 610-20 Limestone, dolomite limestone, light gray buff, light buff-green, micro xln, sandy, slightly argillaceous slightly micaceous den, tite.
- 620-30 Gilsonite, with good trace green, gray-green, firm, blocky, micro micaceous, slity shale.

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- 630-40 Siltstone, sandstone, light gray, green-gray, light green, very fine grained, calcareous argillaceous micro-micaceous with scattered brown oil stain, and saturated pieces, fair trace gilsonite, trace shale as above.
- 640-50 Shale, siltstone, sandstone as above with scattered oil stain with moderate trace gilsonite.
- 650-60 Shale, siltstone, sandstone as above with saturated brown oil stain, trace gilsonite.
- 660-70 Shale, siltstone, sandstone as above with scattered brown oil stain, trace gilsonite.
- 670-80 Shale siltstone, sandstone as above with scattered brown oil stain, trace gilsonite.
- 680-90 Same as above with sandstone, light buff-gray, very light green-gray, very fine to fine grained, angular to sub-rounded clear frosted, quartz grains with trace black to gray chert grains, trace green accessory mineral trace micro-mica, slightly calcareous, slightly argillaceous, firm tite with scattered brown oil stain trace very poor porosity.
- 690-700 Interbedded shale, siltstone and sandstone as next above.
- 700-10 Interbedded shale, siltstone and sandstone as next above.
- 710-20 Shale light gray, light green, gray, firm, blocky, micro-micaceous silty to sandy, with thin leases with siltstone, sandstone, very light gray, very light tan, very fine to fine grained, calcareous, argillaceous micro-micaceous, with very scattered very poor porosity with trace brown oil stain.
- 720-30 Shale, siltstone and sandstone as above with scattered brown oil stain.
- 730-40 Shale, siltstone and sandstone as above with scattered brown oil stain.
- 740-50 Siltstone, sandstone as above with decrease in shale trace scattered brown oil stain.
- 750-60 Siltstone, sandstone as above with decrease in shale trace scattered brown oil stain.
- 760-70 Limestone, very light gray-green, vey light gray very light gray-tan, micro-xln, argillaceous micro-micaceous, slightly silty with scattered frac with brown oil stain, with trace siltstone, sandstone, shale as above with scattered brown oil stain.
- 770-80 Limestone as above with interbedded shale siltstone, and sandstone as above very scattered brown oil stain.
- 780-90 Limestone as above with interbedded shale siltstone and sandstone as above trace purple-gray, purple-red firm blocky shale, scattered light brown, orange-brown oil stain and trace gilsonite.
- 790-800 Gilsonite, with trace whate very light green, very light gray-green, very light tan, siltstone and shale trace oil stain.
- 800-10 Gilsonite with trace white, very light green, very light gray-green, very light tan, siltstone, and shale, trace oil stain.

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- 810-20 Siltstone, shale, very light gray, light green-gray, white, light tan, calcareous firm, blocky slightly micro-micaceous, trace sandstone, white, very light green, very fine grained, argillaceous calcareous, with scattered brown oil stain very good trace gilsonite.
- 820-30 Shale, siltstone, sandstone as above with fair trace gilsonite trace oil stain.
- 830-40q Shale, siltstone, sandstone as above becoming very firm, blocky calcareous with trace oil stain, and gilsonite.
- 840-50 Shale, siltstone, sandstone light gray-green, light green, very fine grained, very argillaceous, calcareous, micro-micaceous, with very scattered trace light orange-brown oil stain, weak trace gilsonite.
- 850-60 Shale, siltstone sandstone as above with very scattered oil stain, trace gilsonite.
- 860-70 Shale, siltstone, sandstone as above with scattered oil stain trace gilsonite.
- 870-80 Shale, siltstone, sandstone as above with limy streaks, trace scattered oil stain, trace gilsonite.
- 880-90 Shale, siltstone, sandstone, light gray, gray-green, light green, very fine to fine grained, very argillaceous microp-micaceous with trace brown oil stain, trace gilsonite.
- 890-900 Shale, siltstone, sandstone as above with very scattered oil stain, trace gilsonite.
- 900-10 Shale, siltstone, sandstone as above very weak trace oil stain weak trace gilsonite.
- 910-20 Siltstone, sandstone, light gray, very light green-gray, very light green, very fine grained, a very argillaceous, calcareous, micro-micaceous, firm, tite with occasional scattered brown oil stain, weak trace gilsonite.
- 920-30 Siltstone, sandstone as above with very scattered occasional brown oil stain trace gilsonite.
- 930-40 Siltstone, sandstone as above with very scattered occasional brown oil stain, trace gilsonite.
- 940-50 Siltstone, sandstone as above with increase in sandstone slightly increase in brown oil stain, trace gilsonite.
- 950-60 Siltstone, sandstone as above with good trace limestone, light gray, light green-gray, light buff-green den arenaceous, argillaceous, slightly micro-micaceous very scattered occasional piece with brown oil stain, trace gilsonite.
- 960-70 Shale, light gray, medium-gray, green-gray, very limy, firm, blocky, with trace siltstone and sandstone as above.
- 970-80 Siltstone, sandstone, very light gray, very light gray-green, 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 green and black accessory mineral trace mica, kaolinitic slightly calcareous, slightly argillaceous, firm, tite, "dirty" with scattered occasional trace very poor porosity with trace brown oil stain, trace gilsonite flecks trace green, light gray, light gray tan shale.

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- 980-90 Shale, light gray, gray, light gray-tan, light green-gray, firm blocky, very calcareous, silty with trace siltstone, and sandstone weak trace oil stain, trace gilsonite.
- 990-1000 Siltstone, sandstone, very light gray, very light green-gray, light gray-tan, very fine to fine grained, trace medium grained, argillaceous, calcareous, micro-micaceous, trace kaolinitic, firm, tite with occasional, brown oil stain.
- 1000-10 Siltstone, sandstone as above becoming very argillaceous and shaly, trace shale, light gray, very light gray tan, light green, gray-green, sub-blocky, firm.
- 1010-20 siltstone, sandstone as above becoming predominate, shale as above.
- 1020-30 Siltstone, sandstone and shale as above predominate, shale.
- 1030-40 Shale, gray-tan, very light green-tan, very light gray, firm, blocky, very dolomitic to very calcareous, with silty and sandy inclusions, slightly micro-micaceous, trace brown oil stain, trace gilsonite, trace gray, waxy shale very scattered.
- 1040-50 Shale as above with scattered silty and sandy streaks, very white, trace brown oil stain.
- 1050-60 Shale as above.
- 1060-70 Shale as above.
- 1070-80 Siltsone, sandstone, light gray, light gray-tan, very fine grained, argillaceous, micro-micaceous, calcareous, firm tite, with very scattered occasional brown oil fleck, trace gilsonite.
- 1080-90 Gilsonite with occasional trace silt and sandstone as above.
- 1090-1100 Gilsonite with fair trace siltstone and sandstone as above trace brown oil stain.
- 1100-10 Gilsonite with fair trace siltstone, sandstone, light gray, very fine grained, calcareous micro-micaceous, very good cut with CCl₄.
- 1110-20 Gilsonite weak trace siltstone, sandstone with scattered stain, trace shale, brown, tan, gray-tan, firm dolomite trace dolomite, gray-tan, brown, den tite, with scattered oil stain.
- 1120-30 Gilsonite as above with fair trace shale, tan to brown, gray-tan, firm, blocky dolomite sub-waxy lustre with trace dolomite tan to brown gray-tan, den tite, slightly argillaceous, trace pyrite trace brown oil stain.
- 1130-40 Siltstone, sandstone, light gray, very light tan-gray, very fine grained, dolomite micro-micaceous den tite, trace oil stain, with trace shale as above.
- 1140-50 Siltstone, sandstone as above with trace black carbonaceous shale partings trace oil stain leacked with CCl₄.
- 1150-60 Siltstone, sandstone as above with trace black carbonaceous shale partings, trace oil stain leacked with CCl₄.
- 1160-70 Siltstone, sandstone as above with sandstone, very light gray, fine to medium grained, angular to sub-angular, clear frosted quartz grains with occasional trace black chert, micro-micaceous slightly dolomitic, kaolinitic, fairly clean, fair sorting, firm tite with trace poor porosity with very spotty dark brown oil stain and gilsonite flecks, with good yellow cut and fluorescence after application of ccl₄.

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- 1170-80 Siltstone, sandstone as above with trace gilsonite, brown oil flecks very good cut with CCl₄.
- 1180-90 Siltstone, sandstone as above with trace gilsonite brown oil flecks very good cut with CCl₄, trace shale, tan, gray-tan, waxy lustre dolomite, slightly oil stained.
- 1190-1200 Siltstone, sandstone, very light gray, very light tan-gray, very fine grained, with trace fine grained, slightly dolomite, kaolinitic, den, tite with dark brown oil stain, trace gilsonite, flecks, trace brown, tan, dolomite, waxy shale.
- 1200-10 Siltstone, sandstone as above with fair to good cut with CCl₄ weak trace tan and brown shale.
- 1210-20 Siltstone, sandstone as above with fair to good cut with CCl₄ becoming shaly trace shale as above.
- 1220-30 Siltstone, and sandstone as above becoming more silty with poor to fair cut with CCl₄, trace shale as above.
- 1230-40 Siltstone, and sandstone as above with poor to fair cut with CCl₄.
- 1240-50 Siltstone sandstone, very light gray, light tan-gray, very fine to fine grained, slightly dolomitic, micro-micaceous, kaolinitic very firm, tite, with trace brown oil flecks, trace gilsonite and carbonaceous flecks, fair cut with CCl₄.
- 1250-60 Siltstone, sandstone as above with trace dolomite dolomitic limestone, cream-tan, gray-tan, den tite.
- 1260-70 Shale, gray-tan, gray-brown, tan, very firm brittle, micro-micaceous, dolomite, silty with scattered brown oil stain.
- 1270-80 Shale as above.
- 1280-90 Dolomite-limestone, brown, gray-brown, very dark tan, crypto to micro-xln, argillaceous brittle den tite very scattered brown oil stain, fair cut with CCl₄.
- 1290-1300 Dolomite limestone as above with weak trace pyrite, poor cut with CCl₄.
- 1300-10 Dolomite, gray-tan, light gray-brown, micro-gln argillaceous, slightly silty, micro-micaceous blocky to brittle with fair to good cut with CCl₄.
- 1310-20 Dolomite, dolomitic limestone, gray-tan, gray-brown, micro-xln argillaceous den tite trace micro-mica, weak trace pyrite, scattered oil stain, trace tan to brown dolomite shale.
- 1320-30 Shale, light to dark brown, gray-brown, very firm, blocky, dolomite to calcareous lightly oil stained trace dolomite cream-tan, tan, den slightly earthy.
- 1330-40 Dolomite-limestone, gray-brown, dark brown, brown, tan, micro to crypto xln, very argillaceous den tite with scattered brown oil stain cut with CCl₄.
- 1340-50 Dolomite-limestone as above with trace oil stain musty odor.
- 1350-60 Dolomite-limestone as above with trace honey combed tan dolomite okl stained, trace gilsonite trace vein filling calcite.
- 1360-70 Dolomite, dolomitic-limestone as above trace calcareous vein filling material trace gilsonite in veinlets, oil stained.
- 1370-80 Dolomite, dolomitic limestone as above very poor sample due to loss circulation material

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- 1380-90 Same as above poor sample due to loss circulation material.
- 1390-1400 Shale, light to dark brown, gray-brown, tan, firm to brittle slightly micro-micaceous, very dolomitic to calcareous trace pyrite, trace brown den dolomite, trace brown oil stain, cut with CCl₄.
- 1400-10 Shale as above.
- 1410-20 Shale with trace dolomite as above scattered oil stain.
- 1420-30 Dolomite, brown, dark-brown, gray-brown, crypto xln, argillaceous brittle den, with gray-brown, dolomite very firm shale, trace white calcite vein let material weak trace brown oil stain, fair cut with CCl₄.
- 1430-40 Dolomite, dolomite-shale, ss above with trace calcite fair cut with CCl₄.
- 1440-50 Dolomite, dolomitic shale as above with trace calcite fair cut with CCl₄.
- 1450-60 Dolomite, dolomitic shale as above with calcite fair cut with CCl₄, trace cavings.
- 1460-70 Shale, tan, to brown, gray-brown, dolomite, very firm, with slight trace stain, trace dolomite dolomitic limestone as above.
- 1470-80 Shale as above with fair trace dolomite, dolomitic-limestone as above with trace stain.
- 1480-90 Dolomite tan, to brown, crypto to micro-xln, argillaceous den brittle trace calcareous trace stain tan to brown, slightly micaceous, dolomite, Brittle, slightly oil stain, cut with CCl₄.
- 1490-1500 Dolomite and shale as above with trace calcite slightly oil stained.
- 1500-10 Dolomite and shale as above with considerable calcite slightly oil stained,
- 1510-20 Dolomite and shale as above with considerable calcite slightly oil stained.
- 1520-30 Dolomite and shale as above with trace honey combed dolomite fair trace calcite.
- 1530-40 Dolomite and shale as above with honey combed dolomite fair trace calcite.
- 1540-50 Dolomite and shale as above with honey combed dolomite fair trace calcite trace nahcolite and pyrite.
- 1550-60 Dolomite and shale as above.

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- 1830-40 Shale, light to dark brown, gray-brown, tan, sub-waxy dolomite firm trace brown, micro-xln, argillaceous dolomite good to fair oil stain.
- 1840-50 Shale, light to dark brown, gray-brown, tan, sub-waxy lustre, dolomite firm blocky to soft, etastic, trace gray-brown, brown micro-xln dolomite very scattered fair to good brown oil stain/
- 1850-60 Shale as above becoming more dolomitic less oil stain, trace dolomite as above.
- 1860-70 Shale as above with trace dolomite as above trace brown oil stain.

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- 1870-80 Shale as above with weak trace dolomite, fair brown oil stain.
- 1880-90 Shale as above with fair trace dolomite very poor to fair oil stain.
- 1890-1900 Shale as above with fair trace buff-tan, very light tan, crypto to micro-xln, dolomite trace pyrite, very poor to fair scattered oil stain.
- 1900-10 Shale, light to dark brown, tan, gray-tan, earthy, resinous, slightly dolomitic, elastic with fair to good oil stain weak trace dolomite.
- 1910-20 Shale as above with trace calcite xls, fair to good brown oil stain, very weak trace dolomite.
- 1920-30 Shale as above with good trace dolomite, brown, tan, buff-tan den tite, very poor oil stain.
- 1930-40 Shale, tan, resinous, brown, amber-brown, laminated earthy elastic, very slightly dolomite, slightly micro-micaceous waxy lustre, with very good brown oil stain, and saturated musty odor, trace clear gyp plates.
- 1940-50 Shale as above with very good oil stain and saturated trace amber brown den dolomite.
- 1950-60 Shale, very light tan, tan, light brown, firm, blocky, dolomite sub-waxy with very poor oil stain, trace dolomite as above.
- 1960-70 Shale and dolomite as above with fair to good oil stain.
- 1970-80 Shale, tan, gray-brown, brown, resinous-brown, earthy, laminated, elastic to firm, blocky, dolomite with fair to good oil stain trace dolomite, brown, den.
- 1980-90 Shale as above becoming firmer trace dolomite.
- 1990-2000 Shale, gray-brown, brown-gray, tan, gray-tan, firm, blocky dolomite, slightly micro-micaceous with very poor oil stain weak trace dolomite.
- 2000-10 Shale as above with very poor stain trace dolomite.
- 2010-20 Dolomite-limestone, light gray, light gray-tan, den argillaceous slightly trace shale as above trace oil stain.
- 2020-30 Dolomite limestone as above.
- 2030-40 Dolomite-limestone, dolomite, light tan, gray-tan, buff, micro xln, slightly argillaceous, slightly micro-micaceous, trace scattered brown oil stain.
- 2040-50 Dolomite, dolomitic limestone, as above with scattered brown oil stain.
- 2050-60 Dolomite, dolomitic limestone, as above with trace shale light gray-tan, dolomite firm tite.
- 2060-70 Dolomite, dolomiteic limestone, as above traceshale brown, gray-brown, tan, sub-waxy lustre, dolomite micro-mica firm, blocky with scattered trace bornw oil.
- 2070-80 Shale as above with fair trace tan dolomite weak trace oil stain.
- 2080-90 Shale as above with trace dolomite weak trace oil stain.
- 2090-2100 Shaleas above fair trace dolomite cream-tan, light tan, brown den slightly argillaceous very scattered brown oil stain.

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- 2100-10 Dolomite, dolomitic limestone and shale as above.
- 2110-20 Dolomite, tan, gray-tan, brown, micro-xln, slightly argillaceous scattered trace micro-mica weak trace brown oil stain, weak trace shale.
- 2120-30 Dolomite as above with shale inclusions weak trace scattered brown oil trace pyrite.
- 2130-40 Dolomite as above with increase in shale gray-brown, brown tan, resinous brown, trace silty and very fine grained, sandy inclusions scattered poor brown oil stain, trace pyrite.
- 2140-50 Dolomite, light gray, gray-brown crypto to micro-xln, very dense, argillaceous with trace micro-mica trace tan to brown shale very weak scattered trace oil stain.
- 2150-60 Dolomite as above with trace shale, weak scattered trace oil stain.
- 2160-70 Dolomite as above with trace shale.
- 2160-70 Dolomite as above with trace shale dolomite slightly micro-more argillaceous.
- 2170-80 Dolomite as above with trace shale.
- 2180-90 Dolomite, light gray, gray-tan, brown, micro to crypto xln, slightly argillaceous dense trace micro-micaceous with scattered trace shale, very weak trace brown oil stain.
- 2190-2200 Dolomite as above predominate light gray.
- 2200-10 Dolomite as above predominate light gray with white scattered trace brown oil stain, trace shale brown, tan, firm, blocky.
- 2210-20 Dolomite as above.
- 2220-30 Dolomite as above with trace gray-tan, dolomite shale.
- 2230-40 Dolomite as above with trace gray-tan, dolomitic shale.
- 2240-50 Shale, brown, gray-brown, tan, resinous-brown, sub-waxy, dolomite slightly micro-micaceous, trace dolomite, gray-brown, gray-tan, light gray, dense argillaceous dense, weak trace oil stain.
- 2250-60 Dolomite and shale as above with trace pyrite and white succrosic gypsum.
- 2260-70 Dolomite, gray-tan, gray-brown, crypto to micro-xln, argillaceous dense, with shale gray-tan, gray-brown, firm, blocky, dolomite slightly micaceous trace pyrite.
- 2270-80 Dolomite and shale as above trace pyrite, gypsum and calcite xls, cut with CCl₄.
- 2280-90 Dolomite tan, cream-tan, buff-tan, gray-tan, crypto to micro xln, slightly argillaceous dense, with trace shale light tan, tan, dolomite, micro-micaceous, slightly oil stained trace pyrite.
- 2290-2300 Dolomite as above with trace shale trace silty and sandy streaks with oil stain.
- 2300-10 Dolomite as above with shale, scattered cut with CCl₄.
- 2310-20 Dolomite tan, cream-tan, gray-tan, brown, earthy, crypto to micro-xln, argillaceous dense cut with ccl₄.
- 2320-30 Dolomite as above with trace very light gray dolomite dense argillaceous cut with CCl₄ trace pyrite.
- 2330-40 Dolomite as above with trace very light gray dolomite, dense argillaceous cut with CCl₄ trace pyrite.

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- 2340-50 Dolomite light to dark tan, gray-tan, crypto xln, with trace micro-gray, oolites limy streaks argillaceous brittle very tite with shale, tan, gray-tan, brown, dolomite, brittle, scattered cut with CCl₄.
- 2350-60 Dolomite and shale as above with dark gray, gray, crypto xln argillaceous dolomite.
- 2360-70 Dolomite, gray, dark gray, brown-gray, crypto xln, slightly ostracodal, argillaceous brittle with trace brown, dark gray-brown, dolomite shale, trace cream-tan, calcarenitic, dolomite, slightly cut with CCl₄.
- 2370-80 Dolomite and shale as above with fair trace cream-white, cream-tan, calcarenitic, ostracodal, earthy, micro-succrosic, dolomitic limestone, white with very scattered brown oil stain very weak trace light gray, fine grained, friable sandstone, trace light gray, oil stain.
- 2380-90 Interbedded dolomite, brown, gray-brown tan, crypto xln, argillaceous den and shale gray-brown, tan, earthy, dolomite, firm, brittle trace calcareous trace pyrite, trace oil stain.
- 2390-2400 Limestone, cream-white, cream-tan, very light earthy, micro-xln micro-calcarentic soft to firm, sub-chalky, with scattered ostracodal shale with limestone, fair trace white, milky, tan amber, chert, trace gray-tan, argillaceous dolomite with slight stain.
- 2400-10 Shale, very dark brown, gray-brown, dark-gray, waxy lustre elastic dolomite, oil stained with trace limestone as above.
- 2410-20 Interbedded shale as above and limestone, cream-tan, micro-xln micro-oolitic earthy with trace smoky white chert.
- 2420-30 Interbedded shale and limestone as above with trace sandstone very light gray, very fine to fine grained with micro oolites gray to tan, limy matrix very scattered brown oil stain in shale and sandstone.
- 2430-40 Shale, light gray, gray, brown gray, micro-micaceous, calcareous with silty streaks trace sandstone as above trace limestone and chert as above.
- 2440-50 Interbedded shale light to medium gray, green-gray, brown-gray, micro-micaceous, calcareous, firm and sandstone very light gray, very fine to fine grained, limy micro-micaceous micro-oolites, very firm tite.
- 2450-60 Shale and sandstone as above weak trace limestone, tan, crypto xln, white trace brown oil stain.
- 2460-70 Interbedded shale and sandstone as above.
- 2470-80 Interbedded shale and sandstone as above with increase in shale fair trace cavings.
- 2480-90 Shale, light to dark gray, green-gray, tan-gray, dark, firm, blocky with interbedded dolomite, tan, gray-tan, very light gray, crypto xln, brittle, tite weak trace sandstone trace pyrite as above.
- 2490-2500 Limestone, very light tan, very light gray-tan, cream-tan crypto to micro-xln, earthy firm tite with interbedded shale, brown, gray-brown firm, dolomitic micro-micaceous slightly oil stained

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- 2500-10 Shale, light to dark brown, gray-brown, gray-tan, firm, dolomite sub-waxy, lustre with thin streaks dolomite gray-tan, brown, crypto xln, trace ostracoda slightly oil stained.
- 2510-20 Shale as above becoming very dolomitic with trace cream-tan, gray-tan, dolomite limestone, crypto - xln, with black carbonaceous plant fragment, trace pyrite trace brown oil stain.
- 2520-30 Shale, light to very dark brown, gray-brown, gray-tan, waxy lustre dolomite with elastic shale streaks, and interbedded, brown to tan crypto xln, argillaceous brittle dolomite, scattered brown oil stain.
- 2530-40 Shale as above with resinous brown elastic shale, good oil stain scattered trace ostracoda, trace dolomite-limestone as above.
- 2540-50 Limestone, cream-tan, cream-white, micro-xln, with scattered trace ostracoda and with scattered very light gray, very fine grained, sandstone inclusions very weak trace oil stain, weak trace shale as above.
- 2550-60 Interbedded limestone as above with fair trace sandstone light gray, very fine grained, micro-micaceous limy.
- 2560-70 Shale, gray-tan, gray-brown, green-gray, calcareous micro-micaceous sub-waxy lustre, firm, with trace sandstone light gray, fine to medium fine grained, calcareous, well sorted, clean, with good porosity, no show, no fluorescence, trace tan den, ostracodal micro-xln, limestone with slightly stain.
- 2570-80 Shale as above with weak trace limestone and sandstone.
- 2580-90 Shale, brown, gray-brown, tan, very dark gray-brown, dolomite firm, sub-fissile with interbedded limestone cream-tan, very light earthy tan, micro-xln and succrosic sub-chalky slightly ostracodal, trace smoky white chert very scattered trace oil stain.
- 2590-2600 Limestone, cream-tan, micro-xln and succrosic, micro oolitic and ostracodal, slightly chalky to firm, trace very poor interbedded oolitic, fragment and ostracodal porosity, trace interbedded shale, brown, gray-brown firm waxy dolomite with scattered oil stain and cut with CCl4.
- 2600-10 Limestone as above with spotty brown oil stain, very good trace shale, siltstone, very light gray, very light green-gray micro-micaceous, calcareous firm, argillaceous trace brown shale.
- 2610-20 Siltstone and shale as above weak trace limestone.
- 2620-30 Siltstone and shale as above very weak trace limestone.
- 2630-40 Siltstone and shale as above with trace limestone cream-tan, slightly earthy, firm to soft.
- 2640-50 Shale light gray, gray-tan, green-gray, sub-waxy lustre, calcareous micro-micaceous with interbedded trace siltstone, sandstone, light gray, fine grained, limy, friable, micro-micaceous trace limestone cream-tan crypto to micro-xln, micro-oolitic and ostracodal den tite.

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- 2650-60 Shale, siltstone and sandstone as above trace limestone.
- 2660-70 Shale, siltstone and sandstone as above with increase in sandstone, trace limestone as above trace brown, gray-brown, waxy shale, trace free brown oil.
- 2670-80 Shale, gray-green, green-gray, dark gray-green, very dark brown sub-waxy calcareous micro-micaceous with limestone, cream-tan, micro-xln, slightly oolitic, ostracodal slightly chalky with scattered brown oil stain trace free oil weak trace sandstone, very light gray, fine grained, calcareous friable.
- 2680-90 Shale as above with fair trace sandstone, light gray, very light green-gray, very fine to medium grained, angular to sub-angular clear frosted quartz grains micro-micaceous, calcareous with trace micro-oolites good porosity no show trace limestone as above.
- 2690-2700 Sandstone as above with no show with fair trace shale and siltstone, gray-green, light green, calcareous micro micaceous, trace oolitic, ostracodal fragment, cream-tan, limestone with very scattered brown oil stain.
- 2700-10 Sandstone, white, very light gray, very fine to fine grained, calcareous micaceous with scattered gray and tan micro-oolitic slightly kaolinitic trace very poor porosity no show good trace shale light gray-green, green-gray, blocky calcareous micaceous weak trace limestone cream-tan.
- 2710-20 Sandstone with trace shale as above no show.
- 2720-30 Interbedded sandstone and shale as above occasional piece with brown stain (contamination)
- 2730-40 Limestone, cream-tan, cream-white, micro-xln and succrosic, micro oolitic, scattered trace ostracoda scattered trace sandstone inclusions, very scattered trace very poor porosity occasional trace brown oil stain trace shale green, gray-green calcareous micaceous.
- 2740-50 Sandstone, white, very light cream-white, fine to medium fine grained, angular to sub-rounded, clear, frosted, occasional very light orange pink quartz grains occasional gray to black chert grains, trace pasper grains slightly micaceous slightly micro-oolitic very calcareous clean, fairly well sorted, firm to friable with very scattered good to very poor porosity scattered occasional piece with brown oil trace pyrite.
- 2750-60 Sandstone as above becoming dense, limy tite, with fair trace shale gray-green, green sub-waxy calcareous with silty streaks trace cream-tan, oolitic limestone inclusions.
- 2760-70 Sandstone and shale as above.
- 2770-80 Shale, light gray, light green-gray, blocky, calcareous slightly sub-waxy, micro-micaceous, with silty inclusions trace siltstone trace sandstone, light gray very fine grained calcareous micaceous weak trace gilsonite.

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- 2780-90 Shale, light to dark gray-brown, green-gray, dolomite firm blocky to sub-fissile trace limestone cream-tan, earthy sub-chalky with trace micro-xln streaks, trace siltstone.
- 2790-2800 Limestone, cream-tan, cream-white, micro-xln succrosic and fragment, slightly oolitic, very sandy with stringers of sandstone, white, cream-white, very fine to fine grained, calcareous to limy, scattered very poor porosity, scattered brown oil stain trace shale light to dark gray, gray-green sub-waxy firm.
- 2800-10 Siltstone, sandstone, very light gray, very light green-gray very firm to fine grained, calcareous, micro-oolitic, micaceous with trace cream-tan, micro-oolitic limestone inclusions with scattered trace ostracoda scattered trace very poor porosity very occasional trace light brown oil stain trace light gray-green, sub-waxy calcareous shale.
- 2810-20 Siltstone, sandstone and limestone as above with fair trace shale light gray-green, green, green-gray, tan, firm, blocky calcareous, slightly micro-micaceous and with scattered silty streaks.
- 2820-30 Interbedded sandstone as above and cream tan, light brown, oolitic limestone, firm, den tite, trace shale light gray, light green-gray, calcareous.
- 2830-40 Shale, light to dark gray, green-gray, firm, black calcareous, micro-micaceous with fair trace interbedded siltstone, sandstone, very light gray, very light tan-gray, very fine grained very calcareous with cream-tan, gray-tan, micro-oolitic limestone, very scattered trace brown oil stain.
- 2840-50 Siltstone, sandstone, very light gray, very light gray-tan very fine grained, calcareous to limy, micro-micaceous, firm with trace pyrite, scattered trace pseudo oil stain, with scattered trace cut with CO_2 trace shale brown, gray-green, gray.
- 2850-60 Sandstone and shale as above.
- 2860-70 Sandstone, as above with micro-oolitic limestone streaks weak trace brown oil stain weak trace shale.
- 2870-80 Siltstone, sandstone, very light gray, buff, very fine to fine grained, calcareous to limy, slightly micro-micaceous firm, tite with poor trace shale green, very light green-gray, calcareous blocky, micro-micaceous.
- 2880-90 Interbedded and intermexed, sandstone, light gray, very fine to fine grained, calcareous to limy slightly micro micaceous and limestone light gray, light gray-tan sal tan pepper, micro to fine oolitic, with scattered very poor porosity, and very scattered very spotty brown oil stain.

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- 2890-2900 Sandstone, very light gray, very fine to fine grained, calcareous to limy, micro-micaceous, with interbedded and interbedded, intermixed fair trace micro to fine oolitic limestone, very scattered very poor porosity with scattered occasional brown oil stained piece.
- 2900-10 Sandstone as above with trace oolitic limestone inclusions, fair trace shale, light to medium gray blocky, very firm, calcareous micro-micaceous, with scattered silty silty streaks
- 2910-20 Sandstone, very light gray, slightly salt and pepper, very fine to fine, medium fine, angular to sub-rounded, clear, frosted very light orange, very light pink quartz grains, with occasional trace gray to black chert green, slightly micro-micaceous, slightly micro-oolitic with interbedded, tan, micro-xln and oolitic limestone streaks, with scattered trace very poor porosity very scattered trace brown oil stain trace pyrite, trace very light gray, very light tan-gray, limy shale.
- 2920-30 Sandstone, very light gray, very light gray-tan, slightly salt and pepper, fine to medium grained, angular to sub-rounded, clear frosted with occasional light pink and orange quartz grains, trace gray to black, white chert grains, micro-micaceous trace micro oolites calcareous clean well sorted friable, with good porosity; trace limestone tan, micro-xln micro-oolitic very scattered trace brown oil flecks trace pyrite trace brown dolomite, very firm, blocky, micro-micaceous shale.
- 2930-40 Sandstone as above with fair trace micro to medium, amber-brown, spherical oolites with trace ostracoda, very good porosity water sand.
- 2940-50 Shale, light to dark brown, gray-brown, very firm, dolomite trace dolomitic gray-brown den argillaceous with trace sandy inclusions trace pyrite.
- 2950-60 Siltstone, sandstone, very light gray, white, very fine to fine grained, medium fine, angular to sub-rounded, calcareous slightly micro-micaceous with fair trace very fine to medium amber-tan, spherical oolites trace ostracoda, with scattered fair to very good porosity, no show water sand trace shale, light tan, gray.
- 2960-70 Siltstone, sandstone as above with very scattered trace micro oolites, black to tan, trace ostracoda trace shale, light gray light gray-green, light green-tan, blocky, calcareous, slightly micro-mica trace pyrite.
- 2970-80 Siltstone, sandstone as above with cream-tan, streaks, and with oolitic and ostracodal inclusions trace shale very light gray very light green-gray, micro-micaceous calcareous, silty, trace pyrite.

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- 2980-90 Siltstone, sandstone, very light gray, gray, very fine to fine grained, calcareous, micaceous, with scattered trace micro oolites and trace tan, micro-oolitic limestone inclusions very firm, tite fair trace shale very light to medium gray-green, calcareous micaceous, blocky.
- 2990-3000 Siltstone, sandstone as above with scattered mico-oolites and ostracoda, trace shale as above.
- 3000-10 Siltstone, sandstone as above with limy inclusions weak trace very poor to fair porosity, trace shale, gray-brown, gray-green, micro-micaceous, dolomite firm, blocky, trace tan, micro-xln, den very slightly oolitic limestone.
- 2010-20 Siltstone, sandstone, very light gray, white, very fine to fine grained, calcareous to limy slightly mica, with micro to fine oolitic and ostracodal limestone inclusions very tite very scattered very poor porosity, trace shale light to dark gray, green-gray trace black carbonaceous plant fragment trace gray-tan, bone fragment, gray-tan, dolomite, micaceous, very firm blocky.
- 3020-30 Siltstone, sandstone as above trace shale.
- 3030-40 Shale, brown, gray-brown, tan, sub-waxy lustre, dolomite firm, sub-blocky with trace dolomite, den, brown, trace dolomite limestone, dark cream-tan, very den tite, slightly oolitic, ostracodal.
- 3040-50 Shale as above slightly resinous with trace limestone cream-tan, to dark gray, crypto to xln, oolitic very firm tite trace silty and sandy streaks.
- 3050-60 Shale, light to medium gray light green-gray, brown-gray-brown calcareous to dolomite firm, blocky and oolitic, ostracodal, cream-tan, gray, black limestone, trace silty and sandy streaks trace pyrite.
- 3060-70 Shale and limestone as above with weak trace siltstone and sandstone.
- 3070-80 Siltstone, sandstone, white, very light gray, very fine to fine grained, calcareous slightly micro-micaceous firm to friable, clean fair sorting with scattered trace light gray-tan, oolitic slightly ostracoda limestone inclusions trace very poor to good prosity, no shwo trace shale, light to medium gray, micaceous calcareous.
- 3080-90 Siltstone, sandstone as above with very weak trace limestone inclusions trace brown, gray, shale.
- 3090-3100 Shale, light to very dark brown, gray-brown, resinous-brown, firm blocky to fiddle, dolomite waxy., with trace gray-brown, den, dolomitic and interbedded limestone cream-tan, micro-fragment oolitic, ostracodal, with trace inter oolitic porosity scattered trace brown oil stain, trace light gray very calcareous siltstone, and sandstone.
- 3100-10 Shale as above with trace limestone and light gray, silt and sandstone, inclusions weak trace oil stain.
- 3110-20 Shale as above with trace limestone and light gray, silt and sandstone inclusions weak trace oil stain.

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- 3120-30 Shale as above with good trace limestone, cream-tan, slightly earthy, micro-xln, oolitic and ostracodal, sub-whalky streaks with scattered poor porosity scattered trace brown oil stain siltstone trace sandstone, light gray very fine to fine very calcareous firm, tite.
- 3130-40 Shale, very light gray, very light gray-green, green, micro-micaceous, calcareous firm blocky with scattered silty inclusions trace sandstone, light gray, very fine grained, limy firm tite, trace tan, amber-tan, den slightly oolitic limestone with siliceous streaks.
- 3140-50 Shale, limestone and siltstone and sandstone as above with increase in tan, oolitic limestone with trace ostracoda.
- 3150-60 Sandstone, very light gray-white, very fine to fine grained, calcareous to limy micro-micaceous, very firm, tite with scattered trace very light tan, oolitic ostracoda limestone inclusions trace light gray, blocky, calcareous, shale.
- 3160-70 Siltstone, sandstone as above with fair trace interbedded oolitic ostracodal, cream-tan, limestone, fair trace shale, light gray, light green-gray, calcareous blocky micro-micaceous
- 3170-80 Siltstone, sandstone as above with trace limestone and trace shale as above.
- 3180-90 Siltstone and sandstone as above with trace limestone and trace shale as above.
- 3190-3200 Siltstone and sandstone as above with fair trace shale light to very dark gray, gray-brown, firm blocky, calcareous micaceous, trace limestone tan, oolitic, ostracodal, micro xln, with very scattered trace brown oil stain.
- 3200-10 Siltstone, sandstone as above with fair trace shale, light gray gray-green, calcareous, blocky.
- 3210-20 Siltstone, sandstone as above with trace interbedded cream-tan light tan, micro-oolitic limestone firm, tite trace shale light gray-green, sub-waxy lustre, calcareous micro-micaceous.
- 3220-30 Silt and sandstone as above with weak trace oolitic limestone trace shale as above.
- 3230-40 Siltstone, sandstone as above with fair trace shale light gray-green firm, calcareous, slightly micaceous with silty streaks.
- 3240-50 Siltstone sandstone as above with fair trace shale, trace cream-tan, oolitic limestone.
- 3250-60 Siltstone, sandstone, very light gray, very fine to fine grained very calcareous slightly micro-micaceous, scattered trace micro-oolites fair trace shale, light gray-green, green-gray sub-waxy lustre, calcareous, micro-micaceous.
- 3260-70 Sandstone, very light gray, very light tan, very fine to fine medium fine grained, calcareous, micro-micaceous, firm to friable clean, well sorted with scattered very poor to fair porosity scattered trace brown oil stain, trace light gray-green, calcareous shale.
- 3270-80 Shale, green-gray, gray-green, gray, gray-tan, micro-micaceous blocky, firm, calcareous with silty and sandy inclusions weak trace sandstone as above becoming shaly

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- 3280-90 Shale light to very dark brown, gray-brown, waxy lustre, sub-fissile to firm, blocky dolomite "oil shale", trace brown, dne dolomite trace pyrite.
- 3290-3300 Shale as above with considerable dolomite, dolomitic-limestone, light to dark gray-tan, tan, crypto xln, slightly argillaceous den tite, trace very light gray, very light green-gray, blocky calcareous shale.
- 3300-10 Shale, gray, green-gray, tan-gray, trace brown, sub-waxy to waxy with silty streaks, slightly micaceous calcareous firm blocky, weak trace cream-tan, den limestone, trace sandstone white, very fine grained, calcareous.
- 3310-20 Shale as above with limy streaks,
- 3320-90 Sandstone, white, very light gray, very fine to fine grained, angular to sub-rounded, clear frosted, with light orange light pink quartz grains, occasional trace black, gray, white, chert grains, trace micro-mica, clean well sorted calcareous firm to friable trace pyrite, scattered very poor to fair porosity no show good trace shale as above trace limestone, gray-tan, micro oolitic.
- 3330-40 Sandstone as above with fair trace shale as above no show.
- 3340-50 Sandstone as above with trace very light gray-tan, micro-oolitic ostracodal limestone inclusions with fair trace shale as above.
- 3350-60 Sandstone, as above with trace micro-oolites and micro-oolitic limestone trace shale.
- 3360-70 Siltstone, sandstone as above with fair trace gray-green, very dark gray, shale, trace brown oil.
- 3370-80 Siltstone, sandstone as above with trace micro-oolites, no show trace shale.
- 3380-90 Siltstone, sandstone, white, very light gray, very fine to fine medium fine grained, clear frosted with trace light pink and orange quartz grains occasional trace very light gray, black chert grains, trace micro-oolites trace micro-micaceous, calcareous to limy fairly clean, well sorted, calcareous with scattered very poor to fair porosity trace weak brown oil stain, trace black carbonaceous shale inclusions.
- 3390-3400 Siltstone sandstone, as above becoming argillaceous with fair trace gray, black, tan, micro-oolitic limestone inclusions with fair trace shale light green-gray, gray, sub-waxy, micaceous calcareous with silty and sandy inclusions.
- 3400-10 Siltstone, sandstone as above becoming very limy firm, tite trace shale as above.
- 3410-20 Siltstone, sandstone as above with gray, tan, micro-oolitic limestone inclusions trace shale dark gray-green, sub-fissile to splintery, firm, very slight calcareous.
- 3420-30 Siltstone, sandstone very light gray, white, very fine to fine grained, calcareous to limy, micaceous, with very scattered trace micro oolites weak trace gray-green, waxy shale.
- 3430-40 Shale, gray-green, gray, dark gray, sub-waxy calcareous firm blocky to splintery with fair trace sandstone as above trace micro oolites and gray tan, limestone.

- 3440-50 Shale gray-green, gray, dark gray, blocky, micaceous, slightly calcareous, with very scattered silty streaks, weak trace siltstone and sandstone as above.
- 3450-60 Shale as above with trace sandstone, very light gray, white, very fine grained, micaceous, calcareous.
- 3460-70 Shale as above with trace sandstone, very light gray, white, very fine grained, micaceous calcareous, trace limestone, gray-brown, very argillaceous.
- 3470-80 Shale as above with trace sandstone very light gray, white, very fine grained, micaceous calcareous, trace limestone, gray-brown, very argillaceous.
- 3480-90 Shale, very dark gray, gray, very dark gray-brown, firm, blocky calcareous very slightly micro-micaceous slightly sub-waxy weak trace white, very fine grained, very calcareous sandstone.
- 3490-3500 Shale as above with trace brown, gray-brown, waxy dolomite shale.
- 3500-10 Shale light to dark brown, tan, waxy sub-fissile, dolomite with slightly oil stain trace tan amber-tan, brown, micro-xln, dolomite, trace shale as above.
- 3510-20 Shale, gray-brown, green, light gray-gray, sub-waxy, calcareous firm, blocky slightly micro-micaceous, trace brown shale as above trace siltstone, sandstone, very light gray, very fine grained, very calcareous micaceous.
- 3520-30 Shale as above with trace sandstone, very light gray, white, very fine to fine grained, calcareous, micaceous, hard tite.
- 3530-40 Shale as above with fair trace sandstone, very light gray, white, very fine to fine grained, calcareous micaceous, hard tite.
- 3540-50 Sandstone, very light gray, white, very light tan, very fine to fine grained, angular to sub-rounded, clear frosted, with occasional trace very light pink, very light orange quartz grains occasional trace black and gray chert grains, micro-micaceous, calcareous, clear well sorted, firm to friable, with scattered very poor to trace fair porosity good spotty to solid light brown oil stain, weak trace shale.
- 3550-60 Shale, gray-green, gray, dark gray, sub-waxy, calcareous firm sub-fissile with weak trace micro-micaceous and pyrite, trace siltstone, sandstone, very light gray, white, very fine grained calcareous.
- 3560-68 Shale, light to dark brown, gray-brown, slightly earthy, fissile to blocky elastic, dolomite, waxy, with fair oil stain, trace dolomite, fair to brown, den argillaceous.
- 3565-70 Shale as above with trace gray-green shale, trace dolomite as above.
- 3570-80 Shale as above with considerable, gray-green, gray, shale with occasional silty streak.
- 3580-90 Shale as above with considerable, gray-green, gray, shale with occasional silty streak.
- 3590-3600 Shale as above with considerable gray-green, gray, shale.

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- 3600-10 Shale, gray-green, gray, gray-brown, sub-waxy slightly calcareous firm, blocky with scattered silty streaks.
- 3610-20 Shale as above with fair trace siltstone, very light gray, very light green-gray, calcareous micaceous.
- 3620-30 Shale as above with trace siltstone, sandstone, light tan, very light gray, very fine grained, calcareous, with friable porous streaks saturated, with brown oil.
- 3630-40 Siltstone, sandstone, very light gray, white, trace tan, very fine grained, very calcareous firm, tite with copious shale gray, gray-green, brown, slightly calcareous, micaceous.
- 3640-50 Shale, gray-green-gray, dark-gray firm, sub-fissile, to splintery, slightly calcareous with trace siltstone, light gray, limy, micaceous with weak very scattered spotty oil stain trace very light gray, bentonite calcareous shale.
- 3650-59 No Samples.
- 3660-70 Shale gray-green, gray, firm, sub-fissile to splintery slightly calcareous with good amount gray-brown, green-brown, dolomite waxy shaly, ostracodal, trace white very fine grained, calcareous sandstone.
- 3670-3760 Missing.
- 3760-70 Shale, brown, dark-gray, brown, gray-tan, dolomite, waxy, firm, sub-fissile to blocky, trace den gray-brown, dolomite weak trace brown oil stain.
- 3770-80 Sandstone, white, light gray, very fine to fine grained, calcareous micaceous, with trace limestone, tan, cream-tan, micro-xln, trace oil stain.
- 3780-90 Shale, light to dark gray-brown, brown, tan, gray tan, sub-waxy dolomite, firm, with trace dolomite limestone, gray-tan, micro xln, argillaceous, scattered oil trace stain, trace brown amber-brown chert.
- 3790-3800 Missing.
- 3800-10 Shale as above with light tan earthy streaks, trace dolomite limestone, trace amber-brown, fish fragment scattered oil stain and saturated,
- 3810-20 Missing.
- 3820-30 Shale, very dark gray-brown, brown, gray-tan, tan, brown-gray sub-waxy dolomite firm, sub-fissile to blocky, trace limestone gray-tan, dark-gray, brown, micro-xln, to micro oolitic, and ostracodal, scattered white trace oil stain.
- 3830-40 Shale as above with trace cream-tan, crypto xln limestone, scattered weak trace oolites.
- 3840-50 Shale as above with trace cream-tan, gray-tan, crypto xln limestone, very scattered trace brown oil saturated shale.
- 3850-60 Shale as above with weak trace limestone as above trace brown oil stain.
- 3860-80 Missing.
- 3880-90 Sandstone, very light gray, very fine to fine grained, calcareous micaceous, trace brown, amber-tan, den limestone.

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- 3890-3900 Sandstone as above with trace brown, gray-brown, tan, dolomite waxy shaly trace amber limestone.
- 3900-10 Sandstone as above with very weak trace shale and amber limestone.
- 3910-20 Sandstone, very light gray, very fine to fine grained, calcareous micaceous, with trace green, gray-green, brown, gray brown, calcareous to dolomitic shale.
- 3920-30 Missing.
- 3930-40 Sandstone as above with fair trace shale light gray to dark gray brown, brown, tan, sub-waxy dolomitic, trace limestone, cream-tan, very light tan, den.
- 3940-50 Limestone, light tan, light gray-tan, micro-xln, micro-oolitic ostracodal with trace sandstone as above trace light green, light gray-green, purple-red, red-brown, firm, shale.
- 3950-60 Sandstone, very light gray, very light green-gray, very fine grained, calcareous, micaceous, with shale very light green, very light green-gray, red-brown, purple red, firm, blocky.
- 3960-80 Missing.
- 3980-90 Sandstone, very light gray, very light gray-green, very fine grained, calcareous, micaceous, with interbedded, shale, varicolored as above.
- 3990-4000 Shale, light gray-green, green, purple-red, red-brown, sub-waxy calcareous, with trace sandstone, as above, very weak trace oolitic, micro-xln, trace limestone.
- 4000-60 Missing.
- 4060-70 Sandstone, white, very light gray, very light green-gray, very fine to fine grained, calcareous, micaceous, with trace shale brown, tan, very light gray-green very light gray, blocky, slightly calcareous, trace limestone light tan, brown, micro xln den.
- 4070-80 Missing.
- 4080-90 Sandstone, white, very light gray, very fine to fine grained, calcareous, micaceous, with weak trace shale.
- 4090-4110 Missing.
- 4110-20 Sandstone, white, very light gray, very fine to fine grained, calcareous, micaceous, with shale, green-gray, green-brown, gray-brown sub-waxy, slightly dolomite, trace limestone amber den.
- 4120-30 Shale as above with fair trace limestone, brown, cream-tan, tan, gray tan, micro to crypto xln trace sandstone.
- 4130-40 Shale, gray, very light gray, very light green-gray, firm, blocky, slightly calcareous micaceous, with fair trace silt and sandstone, very light gray, very fine to fine grained, calcareous, trace pyrite.
- 4170-90 Interbedded shale, light to dark gray-brown, gray-tan, green-tan dolomite, firm with considerable limestone brown to tan, cream tan, crypt to micro-xln, slightly micro-oolitic and ostracodal den tite, trace pyrite.

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- 4190-4220 Shale, gray-green, green, light gray, light brown-green, red-brown, purple red, sub-waxy calcareous blocky with limestone light tan, tan, micro-xln, oolitic, ostracodal with scattered trace brown oil stain.
- 4220-40 Limestone, tan, brown, earthy, crypto to micro-xln, micro- to medium oolitic and ostracodal, trace poor porosity, with trace brown oil stain, fair trace brown-gray gray, calcareous, blocky slightly silty shale.
- 4240-60 Limestone as above with trace pyrite, trace light green, green-gray, green-red, red-brown shale.
- 4260-80 Oolitic and ostracodal limestone as above green, gray-green, gray shale.
- 4270-80 Shale, light green, very light gray-green, red-green firm, sub-splintery, calcareous, trace limestone brown shale.
- 4280-90 Shale, light green, very light gray-green, red-green, purple-green, red-purple, rusty-red, sub-splintery calcareous meta-bentonite, with very scattered silty streaks.
- 4290-4300 Shale as above with copious siltstone sandstone, very light gray, very light green white, very fine grained, calcareous, slightly micaceous, with scattered argillaceous streaks.
- 4300-10 Shale as above with trace siltstone and sandstone as above.
- 4310-20 Shale as above.
- 4320-30 Missing.
- 4330-40 Shale, light green, very light gray-green, purple-red, purple brown, yellow, green-brown, meta-bentonite, slightly calcareous with light very micro-mica, and scattered silty inclusions trace sandstone, white, very light green-gray very fine to fine grained calcareous
- 4340-50 Shale as above with trace siltstone and sandstone.
- 4350-60 Shale as above with silt and sandstone.
- 4360-70 Shale as above with silt and sandstone.
- 4370-80 Shale, varicolored as above.
- 4380-4425 Siltstone, light gray, very fine grained, calcareous micaceous trace shale as above very poor sample.
- 4425-50 Same as above very poor sample.
- 4425-90 Shale as above with very silty inclusions.
- 4490-4500 Siltstone, sandstone, very light gray, very light green-gray very fine to fine grained, calcareous micaceous with light green argillaceous streaks.
- 4500-10 Missing.
- 4510-20 Siltstone and sandstone light gray, very light green-gray, fine to medium grained, slightly micaceous, trace varicolored shale.
- 4520-30 Shale, rusty-red, light red-brown, green, green-gray, red-purple, yellow, meta-bentonite sub-waxy, slightly calcareous with silty inclusions weak trace sandstone white, medium grained friable.
- 4530-40 Shale, varicolored with scattered silty and sandy inclusions.
- 4540-50 Missing.
- 4550-60 Shale varicolored with silty inclusions.
- 4570-90 Shale as above with considerable silty and sandy inclusions.

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- 4590-4600 Sandstone, light gray, very fine to medium grained, calcareous micaceous, with trace varicolored shale.
- 4600-25 Shale, light green, light gray-green, red-green, red-brown, red-purple, tan, gray, firm, blocky meta-bentonite, slightly calcareous with very scattered silty streaks.
- 4625-50 Shale as above with very weak trace sandstone, white, very light green-white, slightly salt and pepper, fine to medium grained angular to sub-rounded, clear frosted, with occasional light pink, light orange, light amber quartz grains with trace black and gray chert grains, trace black and green accessory mineral, slightly calcareous kaolinitic.
- 4650-60 Shale as above with trace lavender, light gray-tan, light gray very fine grained, argillaceous sandstone inclusions.
- 4660-80 Shale as above with very scattered silty and sandy streaks.
- 4680-90 Shale as above with scattered silty and sandy streaks.
- 4690-4700 Shale as above with scattered silty and sandy streaks.
- 4700-10 Shale as above with increase in red-purple, red-brown, trace silty and sandy streaks.
- 4710-20 Shale as above with increase in red-purple, red-brown, trace silty and sandy streaks.
- 4720-30 Shale as above predominate rusty-red, light green, gray-green, with silty and sandy streaks.
- 4730-40 Shale as above predominate rusty-red, light green, gray-green, with silty and sandy streaks.
- 4740-50 Shale as above predominate rusty-red, with good silty and sandy streaks.
- 4750-60 Shale as above predominate rusty-red, good silty and sandy streaks.
- 4760-70 Shale as above predominate rusty-red, and light green, light gray-green, with scattered silty inclusions scattered white trace gypsum
- 4770-80 Shale varicolored, predominate red-brown, with silty and sandy inclusions.
- 4780-90 Shale, varicolored predominate, red-brown, with trace silty and sandy inclusions, trace varicolored limestone nodules.
- 4790-4800 Shale varicolored as above with very silty streaks.
- 4800-10 Silt and sandstone very light gray, very light gray-white, very fine to fine grained, angular to sub-rounded, clear frosted, with trace very light pink very light orange, quartz grains, weak trace gray to black chert, trace mica fair to poor trace shale as above.
- 4810-20 Shale, varicolored meta-bentonite, slightly calcareous, with silty and very inclusions, slightly micaceous scattered trace limestone nodules.
- 4820-30 Shale varicolored as above with very silty and sandy streaks.
- 4830-40 Sandstone, very light green-white, very light gray, very fine to medium grained, angular to sub-rounded, clear frosted, with occasional trace very light pink and orange quartz grains, trace black to gray chert grains, slightly micaceous, fair sorting.

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- 4840-50 Sandstone as above.
- 4850-60 Sandstone as above with trace varicolored shale.
- 4860-70 Shale, red-brown, red-purple, red-green, light green, very light gray-green, olive, meta-bentonite, blocky slightly calcareous with scattered silty streaks, trace sandstone, light green-white very slightly salt and pepper, very fine to medium grained, angular to sub-rounded, gray wacks, sandstone, micaceous, kaolinitic matrix.
- 4870-80 Shale as above with trace dark gray sub-fissile shale, with scattered silty inclusions.
- 4880-90 Shale as above.
- 4890-4900 Siltstone, sandstone, very light gray, very light green-white, very fine to fine grained, micaceous, kaolinitic? with trace shale as above.
- 4900-10 Siltstone, sandstone as above with trace shale.
- 4910-20 Siltstone, sandstone as above with fair trace varicolored shale.
- 4920-30 Siltstone, sandstone as above with fair trace varicolored shale.
- 4930-40 Shale, varicolored, meta-bentonite, slightly calcareous with silty streaks, trace silt and sandstone as above.
- 4940-50 Shale as above predominate red-brown, purple-red, light green with silt and sandy streaks.
- 4950-60 Shale as above predominate red-brown, purple-red, trace light green, with scattered silty streaks.
- 4960-70 Shale as above predominate red-brown, purple-red trace light green with good trace silty and sandstone inclusions.
- 4970-80 Shale, varicolored as above with interbedded very silty and very sandy inclusions.
- 4980-90 Shale, light green, very light gray-green, rusty-red, red-brown red-purple, yellow, yellow-brown, meta-bentonite slightly calcareous, slightly micro-micaceous, scattered very thin silty streaks.
- 4990-5000 Siltstone, sandstone, very light gray, very light gray-white, very fine to medium grained, angular to sub-rounded, clear, frosted, with scattered very light pink very light orange quartz grains, and trace gray to black chert grains, trace green and black accessory mineral, micaceous kaolinitic, slightly argillaceous slightly calcareous, trace varicolored shale as above.
- 5000-10 Siltstone, sandstone as above kaolinitic, slightly argillaceous trace light green shale inclusions.
- 5010-20 Shale, light gray-green, light green, rusty-red, yellow-brown yellow, meta-bentonite, slightly calcareous, with trace silt and sandstone as above.
- 5020-30 Shale as above with considerable silt and sandstone.
- 5030-40 Shale as above predominate greens and reds with trace silt and sandstone.
- 5040-50 Shale as above predominate greens and reds with weak trace silt and sandstone trace pyrite.
- 5050-60 Shale as above predominate greens and reds.

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- 5060-79 Shale as above predominate greens and reds with fair trace interbedded silt and sandstone.
- 5070-80 Shale as above predominate greens and reds with fair trace siltstone, sandstone, light green, light green-white very fine to medium grained, very light gray, angular to sub-rounded, clear, frosted occasional pink, light orange quartz grains with trace black to gray chert grains, micaceous slightly argillaceous, with trace very light green very argillaceous inclusions, kaolinitic slightly calcareous trace pyrite, firm, tite.
- 5080-90 Shale as above with fair trace sandstone as above with trace very poor porosity.
- 5090-5100 Shale as above with fair trace sandstone as above.
- 5100-10 Shale varicolored, meta-bentonite, slightly calcareous, with trace sandstone, white, very light green, white, very fine to medium grained slightly calcareous, slightly argillaceous, kaolinitic, micaceous, firm, tite.
- 5110-20 Shale as above with scattered silty and sandy inclusions.
- 5120-30 Shale as above with considerable silt and sandstone, very light gray, very light gray-white, very light green-gray, very fine to medium grained, slightly calcareous, slightly argillaceous kaolinitic, micaceous firm, tite.
- 5130-40 Shale as above with trace siltstone and sandstone.
- 5140-50 Silt and sandstone, very light gray, very light green-white, very fine to fine grained to medium grained, micaceous slightly calcareous, kaolinitic.
- 5150-60 Silt and sandstone as above.
- 5160-70 Siltstone, sandstone as above with trace varicolored shale.
- 5170-80 Siltstone, sandstone as above with trace varicolored shale.
- 5180-90 Siltstone, sandstone as above with considerable red-brown, green, gray-green, meta-bentonite shale.
- 5190-5200 Shale, varicolored, with trace silt and sandstone.
- 5200-10 Silt and sandstone, very light gray, very light green-white, very fine to fine grained, micaceous, kaolinitic.
- 5210-20 Silt and sandstone as above.
- 5220-30 Silt and sandstone as above.
- 5230-40 Silt and sandstone as above with good trace varicolored meta-bentonite shale.
- 5240-50 Silt and sandstone as above with very good trace varicolored meta-bentonite shale, predominate, rusty-red, slightly micaceous.
- 5250-60 Shale, varicolored meta-bentonite, slightly calcareous with silt and sandstone.
- 5260-70 Silt and sandstone, very light green-white, very light gray, very fine to fine grained, micaceous, slightly calcareous, kaolinitic.
- 5270-80 Shale varicolored with trace silt and sandstone.
- 5280-90 Shale as above with trace silt and sandstone.
- 5290-5300 Shale as above with trace silt and sandstone.
- 5300-10 Shale as above with good trace gray, green-gray shale, trace silt and sandstone trace limestone nodules.
- 5310-20 Missing.

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- 5330-40 Shale, light gray, light gray-green, green, green-red, red-brown, purple-red, yellow, yellow-brown trace black, meta-bentonite, slightly calcareous, blocky, firm trace silt and sandstone inclusions.
- 5340-50 Shale as above with weak trace siltstone and sandstone.
- 5350-60 Shale as above with trace siltstone and sandstone.
- 5360-70 Shale as above with fair trace siltstone and sandstone.
- 5370-80 Shale as above with fair trace siltstone and sandstone.
- 5380-90 Shale as above with fair trace siltstone and sandstone.
- 5390-5400 Shale, varicolored, predominate, reds and greens, meta-bentonite slightly calcareous with trace silt and sandstone.
- 5400-10 Silt and sandstone, light gray, very to fine grained, slightly calcareous, micaceous, with trace shale as above.
- 5410-20 Shale varicolored with trace interbedded silt and sandstone as above.
- 5420-30 Shale as above with considerable interbedded silt and sandstone as above.
- 5430-40 Siltstone, and sandstone as above with fair trace varicolored shale.
- 5440-50 Siltstone and sandstone as above with fair trace varicolored shale.
- 5450-60 Shale, varicolored predominate, red and green in color with scattered silty streaks.
- 5460-70 Shale as above with good trace silty inclusions.
- 5470-80 Shale varicolored, with trace gray shale tracesilty streaks.
- 5480-90 Shale varicolored with scattered silty streaks.
- 5495 Shale varicolored.
- 5495 Shale as above with scattered silty streaks.

T. D. 5499 Drlr. Steel Line Measurement.

DEKALB AGRICULTURAL ASSN., INC., ET AL

UTE TRAIL UNIT WELL # 3

- 7-11-59 Rigging down Rotary from Ute Trail Unit # 2 well to Well # 3.
- 7-12-59 Laying Gas line from 83-X to # 3. 13 men 8 hours each.
- 7-13-59 Laying Gas line from 83-X to # 3. 10 men 8 hours each.
- 7-14-59 Digging cellar at # 3, moving rig from # 2 to # 3. 11 men 8 hours each.
- 7-15-59 Digging cellar, moving rig in. 13 men 8 hours each.
- 7-16-59 Rigging up Rotary Rig. 13 men 8 hours each.
- 7-17-59 Rigging up Rotary Rig. 13 men 8 hours each.
- 7-18-59 Finish rigging up Rotary at 1:00 P. M., digging rat hole.
- 7-19-59 Finish drilling rat hole.
0-71' Spudded at 4:00 P. M. with 12-1/4" OWS Retip, drill kelly down 45' change to 17-1/2" hole reamer, reamed to 45', change back to 12-1/4" bit, drill to 71' at 12 midnight, 9' to 71' Sandrock.
- 7-20-59 Drilling with water and mud.
71'-157' 12 midnight to 12 noon- 59', 71' to 130' Sandstone.
12 noon to 12 midnight- 27', 130' to 157' Sandstone.
12 midnight to 3:00 A. M. mix mud, 3:00 A. M. to 10:30 A. M., drilling with 12-1/4" OWS Retip. Trip, 10:30 A. M. to 7:00 P. M., reaming with 17-1/2" Reed Reamer, circulate 1-1/4 hours.
Ran four (4) joints 13-3/8", 48#, H-40, Range 3 casing, that measured 141.37', set at 154', KDB, cemented with 145 Sacks regular cement, plus 2% Ca. Cl., Plug Down at 11:30 P. M. W. O. C. 48 hours.
48 Sacks Gel, Bit No. 1 (12-1/4" OWS Retip made 157', 13 hours, 0' to 157' Sandrock.
- 7-21-59 W. O. C.
157' T. D.
- 7-22-59 W. O. C.
157' T. D.
12 midnight to 12 noon W. O. C.
12 noon to 12 midnight W. O. C.
6:00 A. M. to 10:00 A. M. cut off casing and weld Bradenhead 10:00 A. M. to 2:00 P. M., nipple up, pressure casing to 1200# psi, No pressure drop indicated, drill mouse hole, trip in, tag cement at 114.75', 11:30 P. M. to midnight drill cement.
- 7-23-59 Drilling with water.
157' - 814' 12 midnight to 12 noon (345') 155' - 500' Sand and Shale.
12 noon to 12 midnight (314') 500' to 814' Sand, Shale with Gilsomite.
Drill out from under surface 1:00 A. M. to 8:00 A. M. with 12-1/4"

OSC3 Retip Bit No. 3, trip, back on bottom with 12-1/4" OWSV Retip Bit No. 2 at 9:00 A. M., drill til 8:00 P. M., trip, back on bottom with 12-1/4" OWSV Bit No. 3 at 9:00 P. M. Still drilling at 12 midnight. Bit No. 1 made 158' in 7-1/2 hours (155' - 313') Sand and Shale. Bit No. 2 made 353' in 11 hours (313' - 666') Sand and Shale. Survey at 285' - 3/4 Degree, Survey at 490' 2-1/4 Degrees (Misrun), Survey at 533' 1 Degree, Survey at 593' 1-1/4 Degree.

7-24-59

814' - 1144'

Drilling with water.

12 midnight to 12 noon (248') 814' to 1062' Sand and Shale.

12 noon to 12 midnight (82') 1062' to 1144', Sand and Shale.

Drill from midnight until 8:15 A. M., trip, back on bottom with 12-1/4" OWSV Bit No. 4 at 9:45 A. M., drill until 4:00 P. M., twisted off at 1126', trip, 5:00 P. M. to 8:00 P. M., fished out two drill collars, trip, back on bottom with 12-1/4" OWSV Bit No. 5 at 10:00 P. M. (Ream 1/4 Hour) still drilling at midnight. Bit No. 3 made 359' in 11-1/2 hours (666' to 1025') Sand and Shale. Bit No. 4 made 101' in 6-1/2 hours, (1025' to 1126') Sand and Shale. Survey at 965' - 1 Degree.

7-25-59

1144' - 1342'

Drilling with water.

12 midnight to 12 noon (96') 1144' to 1240' Sand and Shale.

12 noon to 12 midnight (102') 1240' to 1342' Sand and Shale.

Drill until 8:15 A. M., trip, back on bottom at 10:00 A. M. (Ream 60') with 12-1/4" OSC Retip Bit No. 6, drill until 4:00 P. M., trip, back on bottom with 12-1/4" OSC (retip) Bit No. 17 at 6:00 P. M., drill until 9:45 P. M., trip, back on bottom with 12-1/4" OWS Retip Bit No. 8 at 11:00 P. M., still drilling at midnight. Bit No. 5 made 95' in 10-1/2 hours, 1126' to 1221' Sand and Shale. Bit No. 6 made 57' in 6 hours, 1221' to 1278' Sand and Shale. Bit No. 7 made 54' in 3-3/4 hours, 1278' to 1332' Sand and Shale. Survey at 1265' 1/2 Degree.

7-26-59

1342' - 1594'

Drilling with Water and Dry Drilling.

12 midnight to 12 noon (87') 1342' to 1429' Sand and Shale.

12 noon to 12 midnight (165') 1429' to 1594' Sand and Shale.

Drill until 7:30 A. M., trip, back on bottom with 12-1/4" OWC Bit No. 9 at 10:15 A. M., drill until 6:30 P. M., lost circulation at 1570', start dry drilling at 1570', Bit No. 9 still drilling at 12 midnight with no Returns. Survey at 1443' - 2 degree, Survey at 1464' - 2 degrees Survey at 1578' - 2 Degrees. Bit No. 8 made 69' in 8-1/2 hours, 1322' to 1401' Sand and Shale. Bit No. 9 still drilling at midnight with no returns.

7-27-59

1594' - 1685'

Drilling with no returns.

12 midnight to 12 noon (81') 1594' - 1675', no returns.

12 noon to 12 midnight 10' - 1675' - 1685' no returns.

Drill until 2:00 A. M., trip, back on bottom with 12-1/4" OSCIC Bit No. 10 at 4:00 A. M., dry drill until 12:30 P. M. Shut down 30 minutes to build up water supply in pits, drill until 1:45 P. M., trip, out of hole until 12 midnight. Hauling water. Bit No. 9 made 212' in 10-3/4 hours, 1401' - 1613', no returns. Bit No. 10 made 72', in 4-1/4 hours, 1613' to 1685', no returns. Hauling water with 5 to 7 trucks from Ute No. 2 location.

7-28-59
1685'-1823'
Run Casing

Drilling with Water, No Returns.
12 midnight to 12 noon, 92' - 1685' to 1777', no returns.
12 noon to 12 midnight, 56' - 1777' to 1823', no returns.
Stay out of hole til 6:00 P. M., hauling water, back on bottom with
12-1/4" YT Bit No. 11 at 7:00 P. M., drill until 2:30 P. M., trip,
rig up to run casing. Start running casing at 4:00 P. M. Wait on
Halliburton 3 hours, truck broke down enroute to job. Ran 56 Joints
8-5/8", 32#, J-55, Range 2, LT&C, CP&I Casing, set at 1823', cemented
with 300 sacks regular cement plus 2% Ca. Cl. Plug down at 12:10 A. M.
(7-29-59). W. O. C. 48 hours.

7-29-59
TD 1823'
W. O. C.

W. O. C.
12 midnight to 12 noon, W. O. C.
12 noon to 12 midnight, W. O. C.
Ran Temperature Survey at 12 noon, top of cement- 1410'.
Tag cement in casing at 1656'.

7-30-59
TD 1823'
W. O. C.

W. O. C.
12 midnight to 12 noon, W. O. C.
12 noon to 12 midnight, W. O. C.
6:00 A. M. cut off casing start nipping up at 7:00 A. M., finish
at 6:00 P. M., trip in, lay down plain drill pipe, pick up drill pipe,
with rubber protectors. Tag cement with Bit at 1656' on bottom with
7-7/8" M&N Bit No. 1 at 12 midnight.

7-31-59
1823' - 2321'

Drilling with water, mud up at 2050'.
12 midnight to 12 noon (273') 1823' to 2096' Sand and Shale.
12 noon to 12 midnight (225') 2096' to 2321' Sand and Shale.
Drill out cement 12 midnight to 1:45 A. M., start drilling formation
at 1:45 A. M., drill til 9:15 A. M., start trip, ream and wash, back
on bottom with 7-7/8" OWV Bit No. 2 at 11:00 A. M. Mud up start
drilling at 2:45 P. M. Drill until 10:00 P. M., trip, back on bottom
(ream and wash) with 7-7/8" M&N Bit No. 2 at 12 midnight.
30 sacks Gel (Mud WT 9.4, Vis. 48, CK 4/32, WL. 11.2, PH 11.
85 Sacks Gel, 90 sacks Baroid, 4 sacks Smentox, 3 sacks Tannex,
1 sack Soda Ash, 4 sacks Lime.
Survey at 2007' - 1-3/4 Degree, Survey at 2309' - 2-1/4 Degree
Bit No. 1 made 273' in 7-1/2 hours, 1823' to 2096' Sand and Shale.
Bit No. 2 made 225' in 7-1/2 hours, 2096' to 2321' Sand and Shale.

8-1-59
2321' 2722'

Drilling with mud, Wt. 9.8, Vis. 40, Ck., WL. 7, PH ?
12 midnight to 12 noon, 228', 2321' to 2549' Shale.
12 noon to 12 midnight, 183', 2549' to 2722' Shale.
Brill until 7:00 A. M. with Bit No. 3, trip, back on bottom with
7-7/8" YT Bit No. 4 at 9:30 A. M. Drill until 2:45 P. M., trip,
back on bottom with 7-7/8" OWV Bit No. 5 at 5:30 P. M., still drilling
at 12 midnight. 1-3/4 hours repair flow line. Survey at 2321'-
2-1/4 Degree, Survey at 2480' - 2 Degrees.
8 sacks Gel, 50# Tannex, 4 sacks Gel.
Bit No. 3 made 169' in 7-1/4 hours, 2321' to 2490' Sand and Shale.
Mit No. 4 made 128' in 5-1/4 hours, 2490' to 2618' sand and Shale.

8-2-59
2722' - 3051'

Drilling with mud Wt. 9.7, Vis. 43, Ck 2/32, Wl 14, PH 10.5.
12 midnight to 12 noon- 173' - 2722' to 2895' Sand and Shale.
12 noon to 12 midnight- 156', 2895' to 3051' Sand, Shale and Lime.
Drill with Bit No. 5 until 1:45 A. M., trip, back on bottom with
7-7/8" M&N Bit No. 6 at 4:30 A. M., drill until 3:00 P. M., trip,
back on bottom with 7-7/8" M&N Bit No. 7 at 5:15 P. M., still drill-
ing at 12 midnight.
Survey at 2735' - 1-1/4 Degree, 2 sacks Tannex, 35 sacks Gel, 4 sacks
Q-Droxin, Bit No. 5 made 146' in 6-1/2 hours, 2618' to 2764' Sand,
Shale and Lime, Bit No. 6 made 180' in 10-1/2 hours, 2764' to 2954',
Sand, Shale and Lime.

8-3-59
3051' - 3282'

Drilling with mud, Wt. 9.8, Vis. 48, Ck. 2/32, W. 14.
12 midnight to 12 noon 125', 3051' to 3176' Sand and Shale.
12 noon to 12 midnight 106', 3176' to 3282' Sand and Shale.
Drill until 4:45 A. M., trip, back on bottom with 7-7/8" M&N Bit
No. 8 at 7:15 A. M., drill until 5:00 P. M., (Repair flow line
1/2 hour), trip, back on bottom with 7-7/8" YSI Bit No. 9 at 7:15
P. M., still drilling at 12 midnight. 50# Tannex, morning tour,
50# Tannex Evening tour, Survey at 3111' - 2 Degrees, Survey at
3218' 1-3/4 Degree. Bit No. 7 made 167' in 12-1/2 hours, 2944 to
3111' Sand and Shale. Bit No. 8 made 116' in 9 hours, 3111' to
3227' Sand and Shale.

8-4-59
3282' - 3481'

Drilling with mud, Wt. 10.2, Vis. 44, Ck 2/32, Wl 12.2, Ph. -
12 midnight to 12 noon, 111', 32828 to 3393', Sand and Shale.
12 noon to 12 midnight 88', 3393' to 3481' Sand and Shale.
Drill with Bit no. 9 until 6:30 A. M., trip, back on bottom with
Bit No. 9 until 6:30 A. M., trip, back on bottom with 7-7/8" OWV Bit
No. 10 at 9:00 A. M., drill until 5:00 P. M., trip (slip drilling
line) back on bottom with 7-7/8" OWV Bit No. 11 at 7:30 P. M., still
drilling at 12 midnight. 1 sack Tannex, Survey at 3363' - 2 Degrees.
Bit No. 9 made 136' in 11-1/4 hours, 3227' to 3363' Sand and Shale.
Bit No. 10 made 73' in 8 hours, 3363' to 3436' Sand and Shale.

8-5-59
3481' - 3659'

Drilling with mud, Wt. 10.1, Vis. 42, Ck. 2/32, Wl. 12.2, Ph. -
12 midnight to 12 noon, 77', 3481' - 3558' Sand and Shale.
12 noon to 12 midnight 101', 3558' to 3659' Sand and Shale.
Drill with Bit No. 11 until 6:15 A. M., trip, back on bottom with
7-7/8" OWV Bit No. 12 at 10:30 A. M., drill until 6:15 P. M., work
on mud pump 1 hour, drill until 9:30 P.M. Survey, start trip out,
lay down rubber protector, drill pipe. 50# Tannex. Bit No. 11
made 113' in 10-3/4 Hours, 3436' to 3549' Sand and Shale.
Bit No. 12 made 110' in 10 hours, 3549' to 3659' Sand and Shale.

8-6-59
3659 TD
Change over
to gas drill

Nippling up to gas drill
12 midnight to 12 noon, finish trip nipple up to gas grill.
12 noon to 12 midnight, preparing to gas drill.

8-7-59
3659' - 4158'

Finish nipple up for gas drill and gas and water drilling.
12 midnight to 12 noon 56', 3659' to 3715' Sand and Shale.
12 noon to 12 midnight 443', 3715' to 4158' Sand and Shale.
12 midnight until 4:00 A. M., install mud pump belts.
4:00 A. M. to 6:00 A. M., trip in hole with 7-7/8" YSI Bit No. 13.

6:00 A. M. until 8:00 A. M. displace mud from hole to tank storage.
8:00 A. M. to 10:00 A. M., circulate hole with gas and water. Start
drilling at 10:00 A. M., Bit No. 13 still drilling at 12 midnight.
4 Sacks Lime, morning tour, 38 sacks lime evening tour.

8-8-59
4158' - 4550'

Drilling with gas and water.
12 midnight to 12 noon, 117', 4158' to 4275', Sand and Shale.
12 noon to 12 midnight 275', 4275' to 4550', Sand and Shale.
Drill with Bit No. 13 until 2:45 A. M., trip, back on bottom with
7-7/8" YSI Bit No. 14 at 7:30 A. M., circulate 1/2 hour, start drill-
ing at 8:00 A. M., (wash and circulate 1/2 hour), drill until 9:30
A. M., (Install new wash pipe 9:30 A. M. until noon) (12 noon until
2:45 P. M., rig up sand by pump), (2:45 P. M. until 3:30 P. M. trip
and circulate, and wash to bottom.) Start drilling at 4:00 P. M.,
Bit No. 14, still drilling at 12 midnight. 2 Sacks Lime morning tour,
13 sacks lime evening tour. Bit No. 13 made 575' in 15-3/4 Hours,
3639' to 4214' Sand and Shale.

8-9-59
4550' - 5030'

Drilling with Gas and Water.
12 midnight to 12 noon 205', 4550' to 4755' Sand and Shale.
12 noon to 12 midnight 275', 4755' to 5030' Sand and Shale.
Drill with Bit No. 14 until 2:00 A. M., trip, back on bottom with
7-7/8" OWV Bit No. 15 at 7:30 A. M., drill until 11:00 A. M. wait on
gas (repair control valve at gas well E3-X) 11:00 A. M. until 1:00
P. M. Drill 1:00 P. M. until 3:30 P. M. (stop drilling and circulating
to watch for gas flow (Natural) from well 3:30 P. M. until 4:45 P. M.
Drill until 6:45 P. M., test gas blow from well 1/4 hour, drill until
11:45 P. M., test gas blow from well estimated well making 500,000
CFGPD Natural. Bit No. 15 still drilling at 12 midnight. 16 Sacks
Lime. Bit No. 14 made 419' in 12 hours, 4214' to 4633' Sand and Shale.

8-10-59
5030' - 5495'

Drilling with Gas and Water.
12 midnight to 12 noon 241', 5030' to 5271' Sand and Shale.
12 noon to 12 midnight 224', 5271' to 5495' Sand and Shale.
Drill until 12:30 A. M., circulate 1/2 hour, trip, back on bottom with
7-7/8" OWV Bit No. 16 at 5:30 A. M., drill until 11:30 A. M., circulate,
and change rotating head rubber 11:30 A. M. to 1:00 P. M., drill from
1:00 P. M. until 10:00 P. M. Cones locked on Bit, circulate 10:00 P. M.
until midnight. Start out of hole at 12 midnight. 9 Sacks Lime Morning
Tour, 24 Sacks Lime evening Tour. Bit No. 15, made 426' in 13-1/2 hours,
4633' to 5059' Sand and Shale. Bit No. 16 made 436' in 15 hours,
5059' to 5495' Sand and Shale.

8-11-59
5499' T. D.
4' Correction

Drilling with Gas and Water.
12 midnight to 12 noon, finish trip run logs, preparing to run
Casing. 12 noon to 12 midnight, running casing.
Finish coming out of hole at 1:30 A. M. (Strap Out), left bearings
from 1 cone and 1/2 cone in hole. Rig up to run Schlumberger 2:00 A. M.
to 6:00 A. M. and install 5-1/2 BOP Rubbers. Schlumberger ran Induction
logs to 3960'. Run Logs 6:00 A. M. until 8:00 A. M. Logging tools
would not go below 3960', hit bridge.

8:00 A. M. to 11:30 A. M., rig up to run casing and wait on welder. Start running 5-1/2" Casing at 11:30 A. M. Finish Running Casing at 10:30 P. M. Had to wash and circulate down from 3960' to T. D. Ran 172 Joints 5-1/2" O. D., 15.50#, J-55, Range 2 & 3 J & L Casing that measured 5503'. Set at 5498' KDB. Cemented with 800 Sacks regular cement plus 2% Ca. Cl., plug down at 12:15 A. M. 8-12-59. Left off Cal. Cl. after 100 sacks, 700 regular, no Ca. Cl.

8-12-59
5499' T. D.

W. O. C.
Wait on cement until 12 noon, rig up and run McCullough Logs and Temperature Survey. Top of Cement at 1996'. McCullough ran Gamma Neutron, and Cement logs only. Finish running logs at 7:00 P. M. Load out McCullough and laying down drill pipe until midnight.

8-13-59

W. O. C.
Finish laying down drill pipe at 6:00 A. M.
Strip Shaffer Head and BOP out 6:00 A. M. until 12 noon.
Install well head 12 Noon until 3:00 P. M.
Release Rig at 3:00 P. M.

8-14-59

Rigging down Rotary Rig- 15 men 8 hours each.

8-15-59

Rigging down Rotary Rig- 10 men 8 hours each.

8-16-59

Rigging down Rotary Rig- and take up gas line, 10 men 8 hours each.

8-17-59

Rigging down Rotary Rig, and taking up gas line, 10 men 8 hours each.

8-18-59

Moving work-over Unit from Ute # 4- 3 men 12 hours each.

8-19-59

Moving in and Rigging up Work-over Rig, 4 men 14 hours each.

8-20-59

Rigging up Workover Rig, laying lines, etc.

8-21-59

Pick up and Ran 2-1/2" tubing with Baker Packer, finish laying lines, install BOP, Clean mixing Tank.

8-22-59

Mixed 220 sacks salt, displace hole with salt water, layed down 8 joints 2-1/2" tubing, set Packer at 5166', rig up to perforate. Mercury Well Perforating Corp. Perforate zone No. 1 with link jets through tubing, 4 shots per foot 5195' to 5213', 72 holes. Rig Mercury down, swab tubing dry, making just enough gas to see in sun light and strong odor. Dowell, Inc., fraced with 240 bbls. Diesel oil using 1/2# sand per gallon. Max. Treating Pressure 5000#, Min. 4900#, Immed. Shut In. Pres. 2300#, 18 Min. SIP- 2250#, Initial Break Down Pressure 3100#, Average Injection Rate- 11 Bbls. Per Minute. Total Fluid 325 Bbls, 45 Bbls Flush, Treatment complete at 4:55 P. M. Leave Shut in until 6:00 A. M. 8-23-59.

8-23-59

Open well at 6:00 A. M., 1250# on Tubing, flowed 85 bbls. diesel oil, slowed down to small stream, start swabbing, swab until 8:00 P. M. Recovered total 140 bbls, diesel oil with small amount of sand. Fluid not coming in hole very fast, running estimate 25,000 GPGPD, Swab once each hour, shut well in at 8:00 P. M.

- 8-24-59 Open well 6:00 A. M., 1450# T. P., start flowing dry gas 15 minutes, then by slugs 30 minutes flow making heavy spray, then heading up with slugs and spray with estimated 500,000 CFGD deminishing hourly. Continued flowing well until midnight, start making water and emulsion. Flowing 2 bbls. fluid per hour.
- 8-25-59 Flowed well all night making 65% water, 10% Emulsion, 25% diesel oil, and estimate of 25,000 CFGD. Prepare to Frac Zone # 2. Kill well with Salt Water, pull tubing, Mercury well perforating Corp. perforate with Torpedo Jets, 54 Gram, 2 shots per foot at 4832' to 4850'- Total of 18'. Go in hole and clean casing to bottom with Baker casing Scraper on cable tool drilling line, start in hole with retrievable bridge plug. (No Packer).
- 8-26-59 Finish running tubing, set Bridge Plug at 4906', start swabbing well to dry up tubing and casing. Hole dry up, making undetermined amount of gas. Prepare to Frac down casing and tubing with 600 bbls Diesel Oil and Sand. Dowell, Inc. hook up to well late afternoon. Wait until tomorrow morning to Frac.
- 8-27-59 Dowell frac down casing and tubing with Diesel Oil and 20/40 Sand. Break Down Pressure 3800#, Back to 3300#, Start Frac with 1# sand per Gallon, increase to 1-1/2# sand per Gallon, increase to 2# Sand per Gallon. Total Fluid- 745 Bbls., (620 bbls Diesel Oil plus 125 Bbls. Sand Vol.) Load hole and Break Down- 110 bbls. Treating Fluid- 385 Bbls., plus 125 bbls Sand volume. Flush - 125 Bbls., Maximum Treating Pressure 3700# psi, Min. Treating Pressure- 3500# psi, Average Injection rate 30 bbls per minute treating flush. Used 23000# Sand, 1500# Adomite. Immediate Shut In Pressure- 1700# psi, 15 Minute Shut In Pressure 1350# psi, 55 Minute Shut In Pressure 950# psi, Treatment complete at 8:11 A. M. Leave well shut in until 6:00 A. M. 8-28-59.
- 8-28-59 Open well at 5:00 A. M., TP- 600# psi, flowing 50 bbls. per hour, Diesel Oil and Frace of Sand. Flowed 150 bbls Diesel Oil, sand increasing, trying to flow well to 400 bbl. tank. Gas getting stronger, sand increasing and cutting lines out at tank. Shut in and turn flow to blowie line and light flare well flowing 10,000,000 CFGD, flow well until 6:00 P. M., Shut In.
- 8-29-59 Open well at 6:00 A. M., TP 2200# psi, CP- 2150# psi, flow through 3/4" Choke, making 10000,000 CFGD with heavy sand concentration and 1375# psi Back Pressure on Tubing, 1500# psi on Casing. Shut in 6:00 P. M.
- 8-30-59 Open well 6:00 A. M., TP- 2250#, CP- 2150#, Flow well to blowie line through 3/4" Choke until 10:00 A. M. Take choke out, flow through 2" full open for Potential. Potential 23,500,000 CFGD. Call C. A. White & Co. from Casper, Wyoming, set two Otis Chokes in Tubing, remove completion valves and B. O. P. Install well head Equipment, start rigging work-over Unit down.

8-31-59

Well Shut In.
Rigging down Work-over Unit.

9-1-59

Finish Rigging down Work-over Rig.

9-2-59

Well Shut In.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	154' KB	145 sxs reg. cem	Pump & Plug	Water	
8-5/8"	1823' KB	300 sxs reg. cem	Pump & Plug	Water	
5-1/2"	5498' KB	800 sxs reg. cem	Pump & Plug	Water	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
3/8" Hole	Jet Res. Tubing	Jet	4 per ft.	8/23/59	5195-5213	
5/8" Hole	Torpedo	Jt. 52 gram pdr.	2/ft.	8/26/59	4832-4850	

TOOLS USED

Rotary tools were used from Surface feet to 5499 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

September 21, 1959. Put to producing Shut In September 21 1959
 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 25 MMCF Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Ralph Murray Pusher _____, Driller _____ Tom Chandler _____, Driller
Larry Caldwell _____, Driller _____ Leo Jorgenson _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	946	946	Uintah
946	4278	3332	Green River
4278	5499	1221	Wasatch
			T. D.

FORMATION TOPS:
 946 ?
 4278
 5499'

FOLD | MARK

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Approval expires 12-31-60.
Salt Lake City
LANI
LE: MEMBER
UNIT Ste 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 January 30, 1960,

Agent's address Box 523 Company Dekalb Agricultural Assn., Inc.

Vernal, Utah Signed Saul Singh

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.

Copy H. D. C.

P413
7

BUILD UP

UTE TRAIL # 3

7-17-62 Ran two hour flowing test with Northern Petroleum Engineering Co. Amerada Bomb, with 1st hour build up. Shown below is the dead weight surface pressures.

ISITP 2006 psig ISIBHP 2284 psig @ 4880 K. B.
ISICP 2015 psig
First Production September 12, 1961
Accumulative Gas Production through

SEVEN DAY BUILD UP

<u>DATE</u>	<u>TIME</u>	<u>SIPT psig</u>	<u>SIPC psig</u>	<u>REMARKS</u>
7-17-62	2:00 P.M.	662	733	Set Bomb @ 4842 BHT 138° F
7-18-62	12:30 P.M.	783	783	
7-19-62	1:00 P.M.	797	797	
7-20-62	12:30 P.M.	812	811	
7-21-62	12:30 P.M.	814	814	
7-22-62	12:30 P.M.	821	830	
7-23-62	12:45 P.M.	826	824	
7-24-62	12:30 P.M.	829	828	

See Northern Petroleum Engineering Company's Report for Bomb Readings

DAKOTA AGRICULTURAL ASSOCIATION, INC.

Ute Trail #3, Uintah County, Utah

PRESSURE BUILDUP SURVEY
7/17/62 to 7/24/62

A flowing pressure gradient was run with Amerada RPO 3 pressure gage #17883H (0 to 3500 psi) with a three hour clock and the following steps were made:

KB DEPTH	EXTENSION inches	PRESSURE psig	GRADIENT psi/ft
0	.321	556	
1000	.340	589033
2000	.363	629040
3000	.388	672049
4000	.411	714042
4500	.423	734040
4725	.429	745044
4842	.432	750043

The above gradient shows no fluid in the hole. The gage was on bottom at 12:25 PM, 7/17/62. The well was allowed to flow 10 minutes with the gage on bottom and was then shut in at 12:35 PM, 7/17/62. The following pressures were recorded:

Time & Date	Hours Flowing	Extension inches	Pressure @ 4842' KB psig
12:25 PM, 7/17/62	0	.432	750
12:30 PM,	1/2	.432	750
12:35 PM,	1/6	.432	750

The well was shut in at 12:35 PM.

Time & Date	Hours Shut in	Extension inches	Pressure @ 4842' KB psig
12:35 PM, 7/17/62	0	.432	750
	1/4	.449	779
	1/2	.464	805
	3/4	.467	811
	1	.469-	811

The gage was pulled and rerun with a 180 hour clock. On bottom at 2:35 PM, 7/17/62.

2:35 PM, 7/17/62	2	.473	821
	3	.477	828
	4	.4805	834

<u>Time & Date</u>	<u>Hours Shut in</u>	<u>Extension inches</u>	<u>Pressure @ 48 1/2' KB psig</u>
	5	.483	839
	6	.485	842
	8	.488	847
	12	.493	856
	16	.4955	861
	20	.498	865
	24	.500	868
	30	.5025	873
	36	.505	877
	42	.507	881
	48	.509	884
	60	.512	890
	72	.515	895
	84	.5175	899
	96	.520	903
	108	.522	906
	130	.525	912
	150	.5275	916
11:35 PM, 7/24/62	167	.530	920

Cage pulled at 11:35 PM, 7/24/62.

RE
PMB

GAS PRODUCING ENTERPRISES, INC.

A Subsidiary of Coastal States Gas Producing Company

Phone (801) 789-4433

Vernal, Utah 84078

Mailing Address
P. O. Box 628

January 21, 1972

State of Utah, Department of Natural Resources
Division of Oil & Gas Conservation
1588 North Temple Street
Salt Lake City, Utah 84116

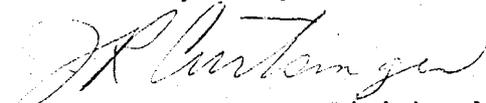
Attention: Cleon B. Feight

Dear Sir:

Please be advised that Gas Producing Enterprises, Inc.
has purchased from Tenneco Oil Company, effective on
December 8, 1971, the following wells:

- Nat. Buttes Unit-U-01191A, Sec. 5 NE $\frac{1}{4}$ NE $\frac{1}{4}$ T-10S R-22E - #1
- Ute Trail Unit -U-01196C, Sec. 8 NE $\frac{1}{4}$ NE $\frac{1}{4}$ T-10S R-22E - #1
- " U-3276, Sec.16 NE $\frac{1}{4}$ NE $\frac{1}{4}$ T-10S R-22E - #3
- " U-01194A, Sec.34 NE $\frac{1}{4}$ SW $\frac{1}{4}$ T- 9S R-21E - #10
- " Utah 0581,Sec.29 NE $\frac{1}{4}$ SW $\frac{1}{4}$ T- 9S R-21E - #12
- " U-010950A,Sec.15 SE $\frac{1}{4}$ NW $\frac{1}{4}$ T- 9S R-21E - #13
- " U-01191, Sec. 4 NE $\frac{1}{4}$ NE $\frac{1}{4}$ T-10S R-22E - #7
- " Sec.22 T- 9S R-20E - #52X
- " U-01196, Sec. 9 SW $\frac{1}{4}$ NE $\frac{1}{4}$ T-10S R-22E - #83X
- " Sec. 2 T-10S R-21E - #81X
- Uintah Unit U-10755, Sec.16 SE $\frac{1}{4}$ NE $\frac{1}{4}$ T-10S R-22E - #1
- Bitter Creek Un.-U-037166, Sec.34 SE $\frac{1}{4}$ NW $\frac{1}{4}$ T-10S R-22E - #1

Yours very truly,



J. R. Curtsinger, Division Manager

JRC/ev

05
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

LAND OFFICE
 LEASE NUMBER
 UNIT Natural Buttes
 CA NW-126

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Natural Buttes

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1973,

Agent's address P. O. Box 1138 Company Gas Producing Enterprises, Inc.

Vernal, Utah 84078 Signed J. A. Hellman

Phone 789-4433 Agent's title Area Clerk

SEC. AND ¼ OF ¼	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)
NON-PARTICIPATING										
16 NENE	10S	22E	3 UT							SI Indefinitely

NOTE.—There were runs or sales of oil; M cu. ft. of gas sold;

..... 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 Natural Buttes
CA NW-126

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Natural Buttes

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1976, Ute Trail 3

Agent's address P. O. Box 1138 Company Gas Producing Enterprises, Inc.
Vernal, Utah 84078 Signed D. W. Hake

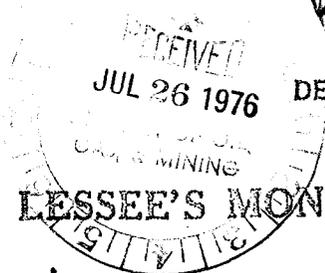
Phone 789-4433 Agent's title Production Clerk

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)
NON-PARTICIPATING										
NENE 16	10S	22E	3		<u>Shut In</u> <u>Uneconomical</u>					<u>Gas Disposition</u> Sold Flared/Vented 0 Fuel 0
								<u>Condensate Disposition</u>		
								On hand Produced Sold Lost On hand		



NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ 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 Natural Buttes
CA NW-126

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Natural Buttes

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1976 Ute Trail 3

Agent's address P. O. Box 1138 Company Gas Producing Enterprises, Inc.
Vernal, Utah 84078 Signed J. W. Hodge

Phone 789-4433 Agent's title Production Clerk

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)
<u>NON-PARTICIPATING</u>										
<u>NENE 16</u>	<u>10S</u>	<u>22E</u>	<u>3</u>		<u>Shut-in</u>		<u>Uneconomical</u>			<u>Gas Disposition</u> Sold Flared/Vented 0 Fuel 0 <u>Condensate Disposition</u> On hand Produced Sold Lost On hand

Note.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ 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 Natural Buttes
CA-NW-126



LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Natural Buttes

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1976, Ute Trail # 3

Agent's address P. O. Box 749 Company Gas Producing Enterprises, Inc.
Denver, Colorado 80201 Signed D. W. Hodge

Phone (303) 572-1121 Agent's title Administrative Supervisor

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 16	10S	22E	3							SI Indefinitely Well Uneconomical
										DISPOSITIONS:
										<u>OIL</u>
							On hand at beginning of month			-0-
							Produced during month.....			-0-
							Sold during month.....			-0-
							Unavoidably lost.....			-0-
							Reason:.....			
							On hand at end of month.....			-0-
										<u>GAS</u>
							Sold.....			-0-
							Flared/Vented.....			-0-
							Used On/Off Lease.....			-0-
										<u>WATER</u>
							Pit.....			-0-
							Injected..			-0-
							Trucked...			-0-
							Other.....			-0-

NOTE.—There were zero runs or sales of oil; zero M cu. ft. of gas sold;

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 Natural Buttes
CA-NW-126

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Natural Buttes

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 1976, Ute Trail # 3

Agent's address P. O. Box 749 Company Gas Producing Enterprises, Inc.

Denver, Colorado 80201 Signed H.W. Hodge

Phone (303) 572-1121 Agent's title Administrative Supervisor

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 16	10S	22E	3	-0-	-0-	-	-0-	-	-0-	SI Indefinitely Well Uneconomical
DISPOSITIONS:										
<u>OIL</u>										
On hand at beginning of month										
Produced during month.....										
Sold during month.....										
Unavoidably lost.....										
Reason:.....										
On hand at end of month.....										
<u>GAS</u>										
Sold.....										
Flared/Vented.....										
Used On/Off Lease.....										
<u>WATER</u>										
Pit.....										
Injected..										
Trucked...										
Other.....										

NOTE.—There were zero runs or sales of oil; zero M cu. ft. of gas sold;

zero 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 Natural Buttes
CA-NW-126

RECEIVED
JAN 2 1976

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Natural Buttes

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1976, Ute Trail # 3

Agent's address P. O. Box 749 Company Gas Producing Enterprises, Inc.
Denver, Colorado 80201 Signed B. W. Hoyle

Phone (303) 572-1121 Agent's title Administrative Supervisor

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 16	10S	22E	3							SI Indefinitely Well Uneconomical
DISPOSITIONS:										
<u>OIL</u>										
							On hand at beginning of month			-0-
							Produced during month.....			-0-
							Sold during month.....			-0-
							Unavoidably lost.....			-0-
							Reason:.....			
							On hand at end of month.....			-0-
<u>GAS</u>										
							Sold.....			-0-
							Flared/Vented.....			-0-
							Used On/Off Lease.			-0-
<u>WATER</u>										
							Pit.....			-0-
							Injected..			-0-
							Trucked...			-0-
							Other.....			-0-

NOTE.—There were zero runs or sales of oil; zero M cu. ft. of gas sold;

zero 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 Natural Buttes
CA-NW-126

LESSEE'S MONTHLY REPORT OF OPERATIONS

P

State Utah County Uintah Field Natural Buttes

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1977, Ute Trail # 3

Agent's address P. O. Box 749 Company Gas Producing Enterprises, Inc.
Denver, Colorado 80201 Signed [Signature]

Phone (303) 572-1121 Agent's title Administrative Supervisor

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 16	10S	22E	3	-0-	-0-	-	-0-	-	-0-	SI Indefinitely Well Uneconomical	
DISPOSITIONS:											
<u>OIL</u>											
										On hand at beginning of month	-0-
										Produced during month	-0-
										Sold during month	-0-
										Unavoidably lost	-0-
										Reason	
										On hand at end of month	-0-
<u>GAS</u>											
										Sold	-0-
										Flared/Vented	-0-
										Used On/Off Lease	-0-
<u>WATER</u>											
										Pit	-0-
										Injected	-0-
										Trucked	-0-
										Other	-0-

NOTE.—There were zero runs or sales of oil; zero M cu. ft. of gas sold;

zero 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 Natural Buttes
CA-NW-126

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Natural Buttes

The following is a correct report of operations and production (including drilling and producing wells) for the month of April, 1977, Ute Trail # 3

Agent's address P. O. Box 749 Company Gas Producing Enterprises, Inc.
Denver, Colorado 80201 Signed _____

Phone (303) 572-1121 Agent's title Administrative Supervisor

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 16	10S	22E	3	—	—	—	—	—	—	SI Indefinitely Well Uneconomical
DISPOSITIONS:										
<u>OIL</u>										
On hand at beginning of month										-0-
Produced during month										-0-
Sold during month										-0-
Unavoidably lost										-0-
Reason:										-
On hand at end of month										-0-
<u>GAS</u>										
Sold										-0-
Flared/Vented										-0-
Used On/Off Lease										-0-
<u>WATER</u>										
Pit										-0-
Injected										-0-
Trucked										-0-
Other										-0-

NOTE.—There were zero runs or sales of oil; zero M cu. ft. of gas sold;

zero 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

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
COASTAL OIL & GAS CORPORATION

3. ADDRESS OF OPERATOR
P. O. BOX 749, DENVER, CO 80201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL & 660' FEL
AT TOP PROD. INTERVAL: SAME
AT TOTAL DEPTH: SAME

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
STATE MT. 3276

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
NATURAL BUTTES UNIT

8. FARM OR LEASE NAME
NATURAL BUTTES UNIT

9. WELL NO.
UTE TRAIL #3

10. FIELD OR WILDCAT NAME
NATURAL BUTTES FIELD

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SECTION 16-T10S-R22E

12. COUNTY OR PARISH
UINTAH

13. STATE
UTAH

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5128" KB

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON* REVISED

(other)

SUBSEQUENT REPORT OF:

RECEIVED

MAY 06 1982

DIVISION OF
OIL, GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

THIS IS A REVISED P&A PROCEDURE FOR THE ABOVE CAPTIONED WELL.
THE ORIGINAL P&A WAS APPROVED OCTOBER 10, 1981.

VERBAL APPROVAL WAS OBTAINED BY ASSAD RAFFOUL OF USGS IN SALT LAKE CITY
ON APRIL 26, 1982 @ 3:30 PM

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MINING
DATE: 5/10/82
BY: [Signature]

Subsurface Safety Valve: Manu. and Type _____

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

SIGNED W. J. Gooden TITLE PRODUCTION ENGINEER DATE APRIL 27, 1982
W. J. GOODEN

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

REVISED P & A PROCEDURE

UTE TRAIL #3
NE NE SECTION 16-T10S-R22E
UINTAH COUNTY, UTAH

APRIL 27, 1982

WELL DATA

Location: 660' FNL, 660' FEL, Section 16-T10S-R22E

Elevation: 5117' GL 5128' KB

TD: 5498'

PBTD: Unknow, well history incomplete.

Completion Date: 8-31-59

Last Production: 1977

Cumulative Production: 508 MMCF

Perforations: 4832' - 4850' 2 JPSF
5195' - 5213' 4 JPSF

Casing: 13-3/8" set 154' w/145 sx. Cement circulated.
8-5/8" set @ 1823' w/300 sx.
Top of cement 1410' @ logs.
5-1/2" set @ 5498' w/800 sx.
Top of cement 1996' @ logs.

Casing ID/Capacity" 4.95"/.0238 bbl/ft

Casing Drift Diameter: 4.825"

Formation Tops: Uintah - Surface
Green River - 1250'
Wasatch - 4278'

Attachments: Well diagram, cement logs.

PROCEDURE

1. Notify USGS office in Salt Lake City at least 24 hours prior to start of operations.
2. MIRUSU
3. Kill well w/10# brine or 9.2 ppg drilling mud.

REVISED P & A PROCEDURE
UTE TRAIL #3
NE NE SECTION 16-T10R22E
UINTAH COUNTY, UTAH
APRIL 27, 1982
continued:

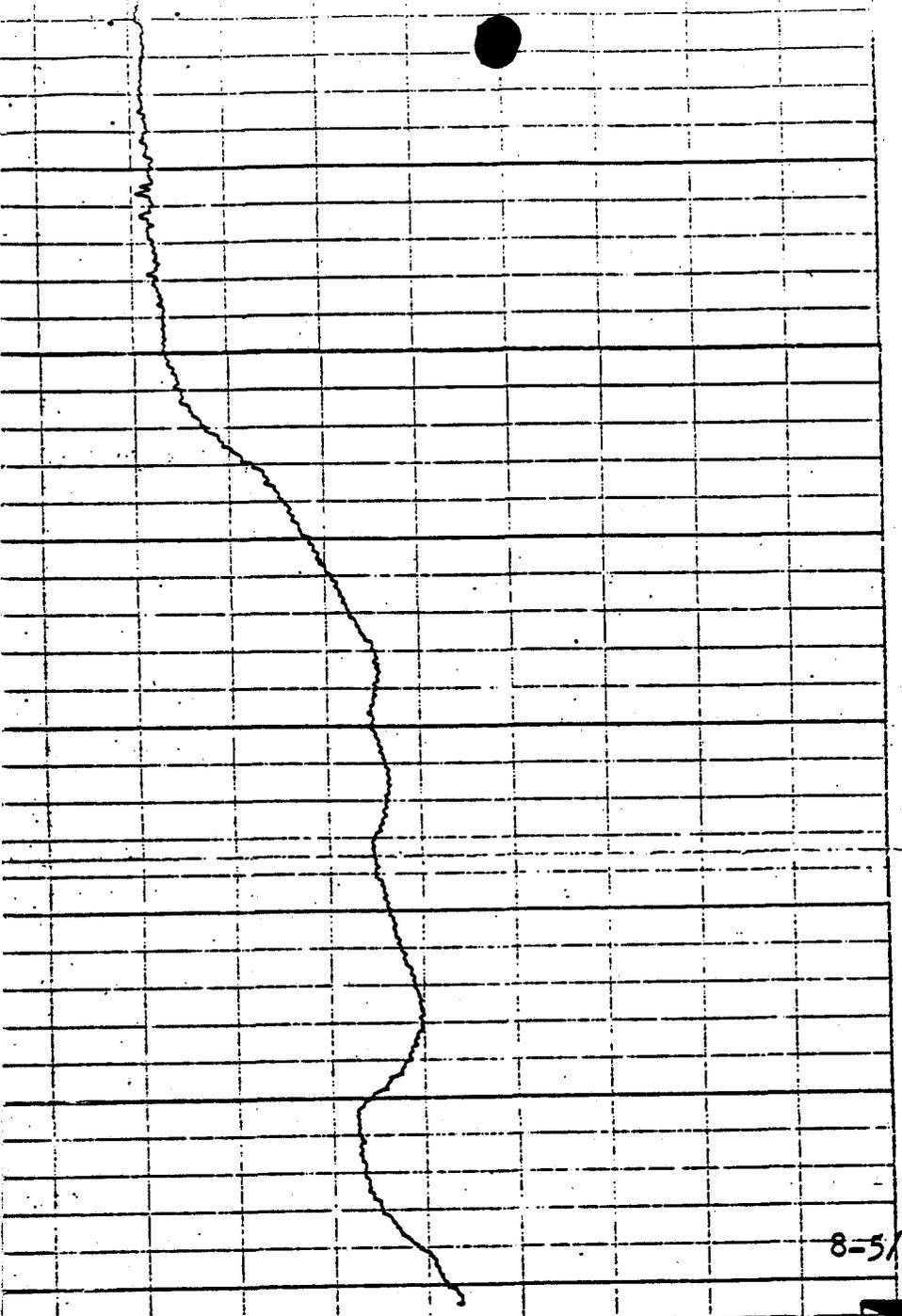
4. ND tree. NU BOP's.
5. TIH to 5400' w/2-3/8" tbg and displace hole w/9.2 ppg drilling mud.
6. POOH to 5300' and set 550' plug from 5300' to 4750' across perforations w/65 sx class "G" cement.
7. POOH to 4375' and set 200' plug from 4375' to 4175' across the top of the Wasatch formation w/25 sx class "G" cement. POOH w/tubing.
8. Cut casing @ 1800', circulate hole w/9.2 ppg mud and pull 5 1/2" casing.
9. TIH to 1800' and set 200' plug from 1800' to 1600' @ shoe of intermediate casing w/60 sx class "G" cement.
10. POOH to 254' and set surface plug inside casing from 254' to 3' below ground level by spotting 75 sx class "G" cement.
11. POOH w/tbg. ND BOP's. NU tree and release service unit.
12. Set plug in casing-casing annulus by:

Setting surface plug in annulus between 13-3/8" and 8-5/8" intermediate casing from 3' below surface to 254' by squeezing w/115 sx class "G" cement.
13. Remove wellhead and cut off all casing at least 3' below ground. Finish filling 8-5/8" casing w/cement and set dry hole marker inside 8-5/8" casing.
14. Clean up and restore location to original grade.
15. Notify USGS to make final inspection.

Note: Cement required to P & A = 340 sx class "G" cement. If casing is blocked or collapsed, notify the Denver office.

PREPARED BY: W. J. Gooden DATE: 4/27/82
W. J. GOODEN, PRODUCTION ENGINEER

APPROVED BY: Frank R. Midkiff DATE: 4/28/82
FRANK MIDKIFF, DISTRICT PRODUCTION MANAGER



1400

1500

1600

8-5/8"



CO. BOTTOM --
McC. BOTTOM 1656"

72°

80°

88°

96°

104°

112°

120°

128°

----- TEMP. INCREASES ----->

DeKALB AGRICULTURAL ASSOC.
UTE TRAIL #3
UTE TRAIL FIELD
DATE: 7-29-59

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

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
COASTAL OIL & GAS CORPORATION

3. ADDRESS OF OPERATOR
P. O. BOX 749, DENVER, CO 80201

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 660' ENL & 660' FEL
AT TOP PROD. INTERVAL: SAME
AT TOTAL DEPTH: SAME

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(other)		

5. LEASE STATE ML 3276	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
7. UNIT AGREEMENT NAME NATURAL BUTTES	
8. FARM OR LEASE NAME NATURAL BUTTES	
9. WELL NO. UTE TRAIL #3	
10. FIELD OR WILDCAT NAME NATURAL BUTTES FIELD	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SECTION 16-T10S-R22E	
12. COUNTY OR PARISH UINTAH	13. STATE UTAH
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 5128' KB	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

THE ABOVE CAPTIONED WELL WAS P & A'D ON JUNE 9, 1982 AS PER ATTACHED CHRONOLOGICAL.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED W. J. Gooden TITLE PRODUCTION ENGINEER DATE JUNE 23, 1982
W. J. GOODEN

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

UTE TRAIL #3
SECTION 16-T10S-R22E
660' FNL & 660' FEL

NATURAL BUTTES UNIT
UINTAH COUNTY, UTAH
TD: 5498'
PBD: ?
PERFS: 4832' - 4850' 2 JSPF
5195' - 5213' 4 JSPF

8-31-59 Well Shut In.
Rigging down Work-over Unit.

9-1-59 Finish Rigging down Work-over Rig.

9-2-59 Well Shut In.

P & A AFE: 12540

6-6-82 ROAD RIG TO LOCATION STUCK ON KILL. BLOW DOWN WELL TO PIT. CWC: \$2910

6-7-82 SD FOR SUNDAY. CWC: \$2910

6-8-82 PULL GAMACHE UP HILL & RUSU. RU & KILL WELL w/60 BBLS 10 PPG BRINE. ND TREE. NU BOP'S. RIH 168 JTS. 2-3/8" TBG. & TAG BOTTOM @ 5203'. POOH 13 JTS. CWC: \$7610

6-9-82 CLEAN OUT CELLAR & VALVES. TAG FL @ 3000'. RIH TO 5232'. SET 550' PLUG FROM 5232' TO 4682' ACROSS PERFS W/65 SX CMT. POOH 27 JTS. WO CMT. RIH TO 4375' AND SET 200' PLUG FROM 4375' TO 4175' ACROSS TOP OF WASATCH W/25 sx. POOH STD BACK 26 STDS & LD 89 JTS. RIH 26 STDS TO 1624' & SET 25 sx CMT PLUG FROM 1624' to 1424' OPPOSITE SHOE OF INTERMEDIATE CSG. POOH & LD 52 JTS. RIH 8 JTS TO 261' & SET SURF PLUG IN 5 1/2" CSG W/25 SX CMT. POOH W/TBG. SET ANNULAR PLUG IN 13-3/8" x 8-5/8" CSG FROM 254' TO SURFACE w/115 SX CMT. SET ANNULAR PLUG IN 8-5/8" x 5-1/2" CSG ANNULUS FROM 1610' TO SURFACE W/30 SX CMT FOLLOWED BY 100 SX W/10% BENTONITE & 40 SX CMT. ND BOP. NU TREE.

6-10-82 RD GAMACHE. CUT OFF CSG & INSTALL DRY HOLE MARKER. WELL P&A'D 6-9-82
CWC: \$20,807

6-11-82 RESTORED LOCATION TO ORIGINAL GRADE. CWC: \$25,048