

4.85-5
4.92-5
1.62-W
1.61-W

- Fracture Before 6/5/27
 - Now Deeper
 - Drill Deeper
 - Redrill
 - Abandonment
- dated 1-19-71

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION WELL NO. 1 1423

Company OCCIDENTAL PETROLEUM CORP.
~~CANFORD E. McCORMICK~~

Address 5000 Stockdale Hwy. Bakersfield Calif. 93309

Farm JOHN BURLEY

Tract Acres 134 Lease No.

Well (Farm) No. 1 Serial No.

Elevation (Spirit Level) 1423

Quadrangle CAMERON SE

County MARSHALL District LIBERTY

Engineer J. James Schullhaus

Engineer's Registration No. 1673

File No. Drawing No.

Date 4/17/69 Scale 1" = 500'

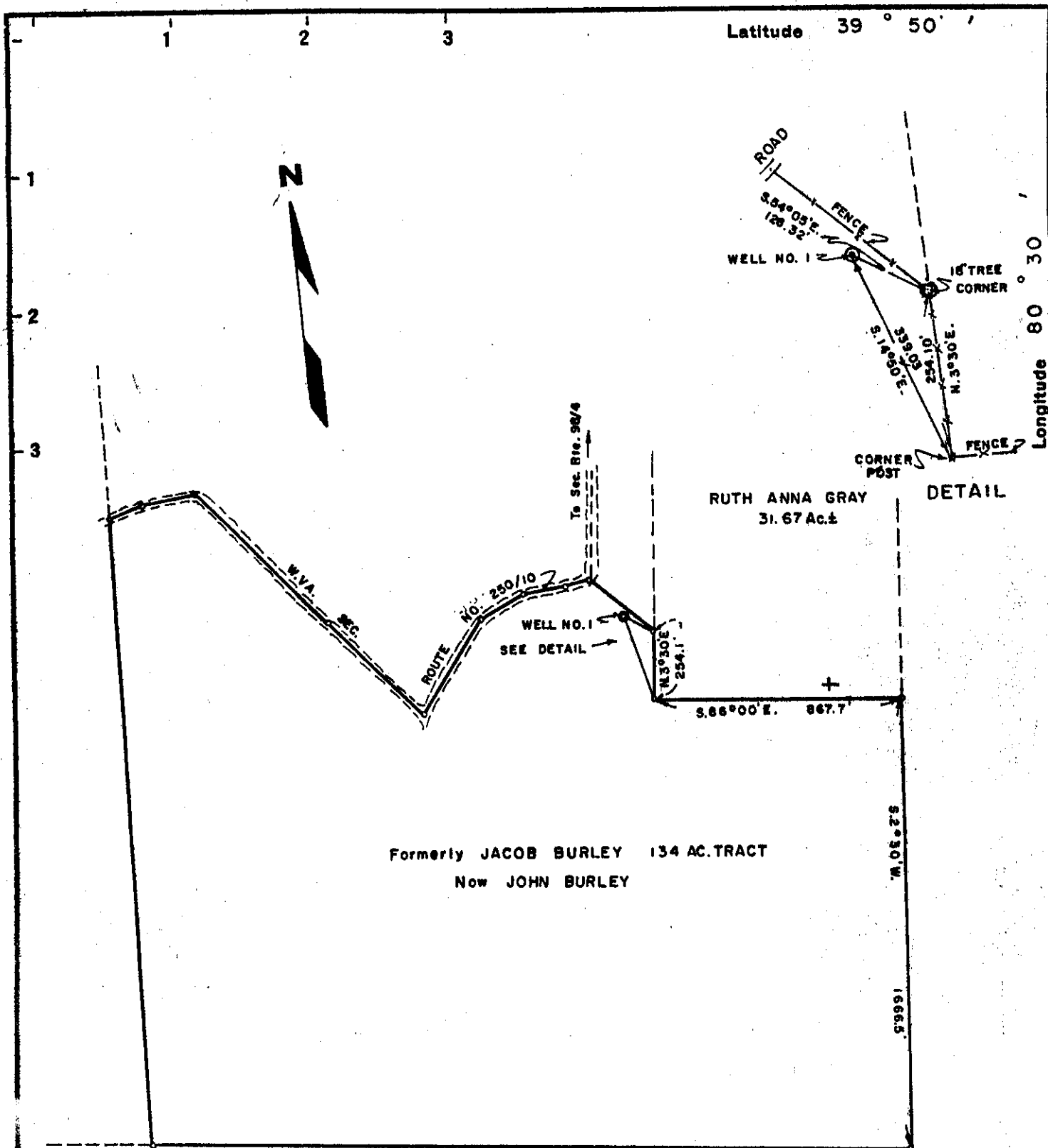
SOURCE: USGS BENCH MARK AT 2 ROAD INTERSECTIONS

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. Mars-539-00-P

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.



Fracture Before 6/5/27
 Drill Deeper
 Redrill
 Abandonment

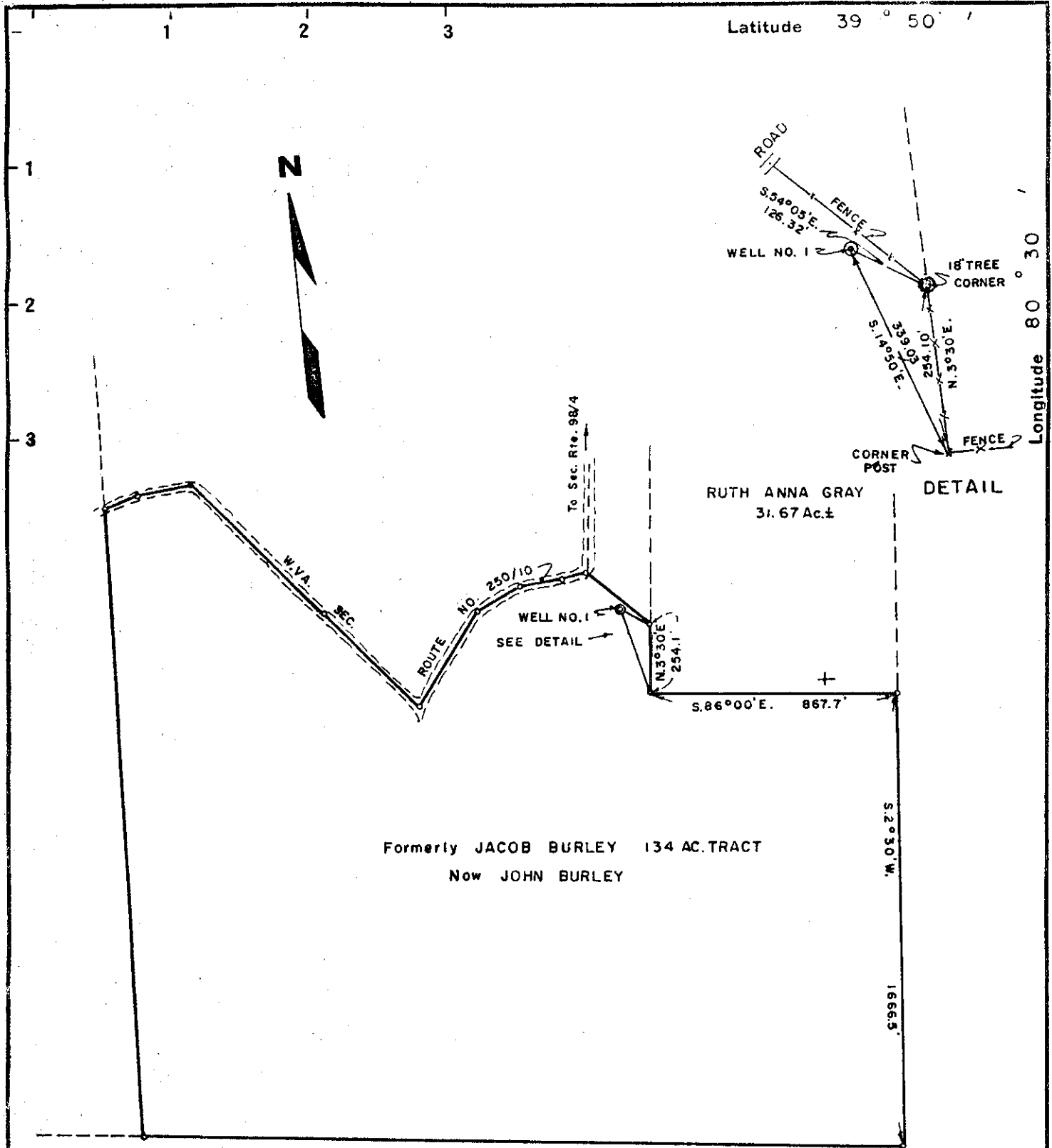
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 PROVEN ELEVATION WELL NO. 1 1423

Company OCCEANAL PETROLEUM CORP.
SANFORD E. McCORMICK
 Address 5000 Stockdale Hwy. Bakersfield Calif.
93309
 Farm JOHN BURLEY
 Tract Acres 134 Lease No.
 Well (Farm) No. 1 Serial No.
 Elevation (Spirit Level) 1423
 Quadrangle CAMERON SE
 County MARSHALL District LIBERTY
 Engineer J. James Schellhase
 Engineer's Registration No. 1673
 File No. Drawing No.
 Date 4/17/69 Scale 1" = 500'

SOURCE: USGS BENCH MARK AT 2 ROAD INTERSECTIONS
 STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Mars-539-00

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Fracture Before 6/5/27.....
 New Location.....
 Drill Deeper.....
 Redrill.....
 Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.
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Company SANFORD E. McCORMICK
 Address CHARLESTON, W. VA.
 Farm JOHN BURLEY
 Tract Acres 134 Lease No.
 Well (Farm) No. Serial No.
 Elevation (Spirit Level) 1423
 Quadrangle CAMERON SE
 County MARSHALL District LIBERTY
 Engineer *N. James Schellhase*
 Engineer's Registration No. 1673
 File No. Drawing No.
 Date 4/17/69 Scale 1" = 500'

SOURCE: USGS BENCH MARK AT 2 ROAD INTERSECTIONS
 STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Mars-539

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39°47'30"

Latitude

80°30'00"

Longitude

2.06s
1.60w

Topo Location

7.5' Loc. _____ 15' Loc. _____
(calc.) _____

Company _____

Farm John Burley #1

15' Quad _____
(sec.)

7.5' Quad Cameron

District Liberty

WELL LOCATION PLAT

County OSI **Permit** 539



JAN 20 1971

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

Rotary
Spudder
Cable Tools
Storage G. NOLL

Quadrangle Cameron

Permit No. MARS-539 DD

WELL RECORD

Oil or Gas Well (Dry)
(KIND)

Company Occidental Petroleum Corporation
Address 5000 Stockdale Highway
Bakersfield, Calif. 93309
Farm John Burley, et al Acres 134
Location (waters) Harts Run
Well No. One Elev. 1439KB
District Liberty County Marshall
The surface of tract is owned in fee by John Burley
RFD #5 Address Cameron, W.Va.
Mineral rights are owned by John Burley, et al
RFD #5 Address Cameron, W.Va.
Drilling commenced Deepening 12/4/1970
Drilling completed Deepening 1/18/1971
Date Shot Not From - To -

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	100	100	
13			Size of
11 11-3/4"	3908	3908	
8 8-5/8"	10511	10511	Depth set
6 3/4			
5 3/16			Perf. top
4 1/2			Perf. bottom
3			Perf. top
2			Perf. bottom
Liners Used			

With
Open Flow NO /10ths Water in Inch
 /10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) No

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags)
Name of Service Co.
COAL WAS ENCOUNTERED AT FEET INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

WELL FRACTURED (DETAILS) Fractured 10,306 - 10,359 - No Result

RESULT AFTER TREATMENT (Initial open Flow or bbls.) NIL
ROCK PRESSURE AFTER TREATMENT HOURS
Fresh Water Feet Salt Water Feet
Producing Sand Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Original total depth				14,496			
Beekmantown Dolomite			14,040	16,095			
Rose Run Sand			16,095	16,275			
Trempealeau - Copper Ridge Dolomite			16,275	16,512	16,275 1439 1258		
Total Depth				16,512			

16512
14496
2016 DD Spillage



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION 9

Rotary
Spudder
Cable Tools
Storage E. E. O. L.

Quadrangle Cameron

WELL RECORD

Permit No. MARS-539

Oil or Gas Well dry (KHD)

Company <u>Sanford E. McCormick</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>530 Commerce Square, Chas., W. Va.</u>	Size			
Farm <u>John Burley</u> Acres <u>1.34</u>	16	100'	100'	Kind of Packer
Location (waters) <u>Harts Run of Fish Creek</u>	13			
Well No. <u>One</u> Elev. <u>1423 Gt</u>	11 3/4	3,901'	3,901'	Size of
District <u>Liberty</u> County <u>Marshall</u> <u>1435 KHD</u>	8 1/4	10,500'	10,500'	Depth set
The surface of tract is owned in fee by <u>John Burley, et al</u>	6 1/4			
Address <u>Cameron, W. Va.</u>	5 3/16			
Mineral rights are owned by <u>John Burley, et al</u>	4 1/2			
Address <u>Cameron, W. Va.</u>	3			Perf. top
Drilling commenced <u>June 3, 1969</u>	2			Perf. bottom
Drilling completed <u>November 5, 1969</u>	Liners Used			Perf. top
Date Shot <u>Not</u> From <u></u> To <u></u>				Perf. bottom

Attach copy of cementing record.

Open Flow /10ths Water in Inch

/10ths Merc. in Inch

CASING CEMENTED SIZE No. Ft. Date

Volume Cu. Ft.

Amount of cement used (bags)

Rock Pressure lbs. hrs.

Name of Service Co.

Oil bbls., 1st 24 hrs.

COAL WAS ENCOUNTERED AT FEET INCHES

FEET INCHES FEET INCHES

FEET INCHES FEET INCHES

WELL ACIDIZED (DETAILS)

WELL FRACTURED (DETAILS)

RESULT AFTER TREATMENT (Initial open Flow or bbls.) No treatment

ROCK PRESSURE AFTER TREATMENT HOURS

Fresh Water Feet Salt Water Feet

Producing Sand Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sandstone			Surf.	280	7575		2280
Shale			280	450	2020		1423
Sandstone			450	560	2020		857
Sand & Shale			560	650			
Sandstone			650	730			
L.S. & Sandstone			730	780			
Shale			780	940			
Limestone			940	1120			
Shale w/sd. stringers			1120	2280	✓ Show of coal		1170-75
					Show of Coal		1230
					Show of Coal		1958
Greenbrier L. S.			2280	2370			
Injun Sand			2370	2620	Show of Coal		2505
Shale w/sd. stringers			2620	2973			
Berea Sand			2973	2993			
Shale			2993	3170			
Sandstone			3170	3205	7575	7802	7890
Shale			3205	3240	1435	1435	1435
Sandstone			3240	3285			
Shale			3285	3310	6140	6367	6455
Sandstone			3310	3350			
Shale			3350	3520			
Sandstone			3520	3540	7575		
Shale			3540	7575			
Onondaga L. S.			7575	7802			
Oriskany Sand			7802	7890	Small amount of water		

Formation	Color	Hard or Soft	Top 9	Bottom	Oil, Gas or Water	Depth Found	Remarks
Limestone & Dolomite			7890	9780			
Shale			9780	10050			
Dolomite			10050	10070			
Shale			10070	10150			
Dolomite			10150	10190			
Tuscarora Sand			10190	10470			
Queenston Shale			10470	12400			
Shale & Limestone			12400	13800			
Limestone & Dolomite			13800	14496			
TOTAL DEPTH				14496			
<i>Beekmantown</i>							
** This well has been sold to Occidental Petroleum Corporation for deepening purposes.							
			10190				

Date October 26, 1970

APPROVED Samuel L. McCormick, Owner

By [Signature]
(Title)