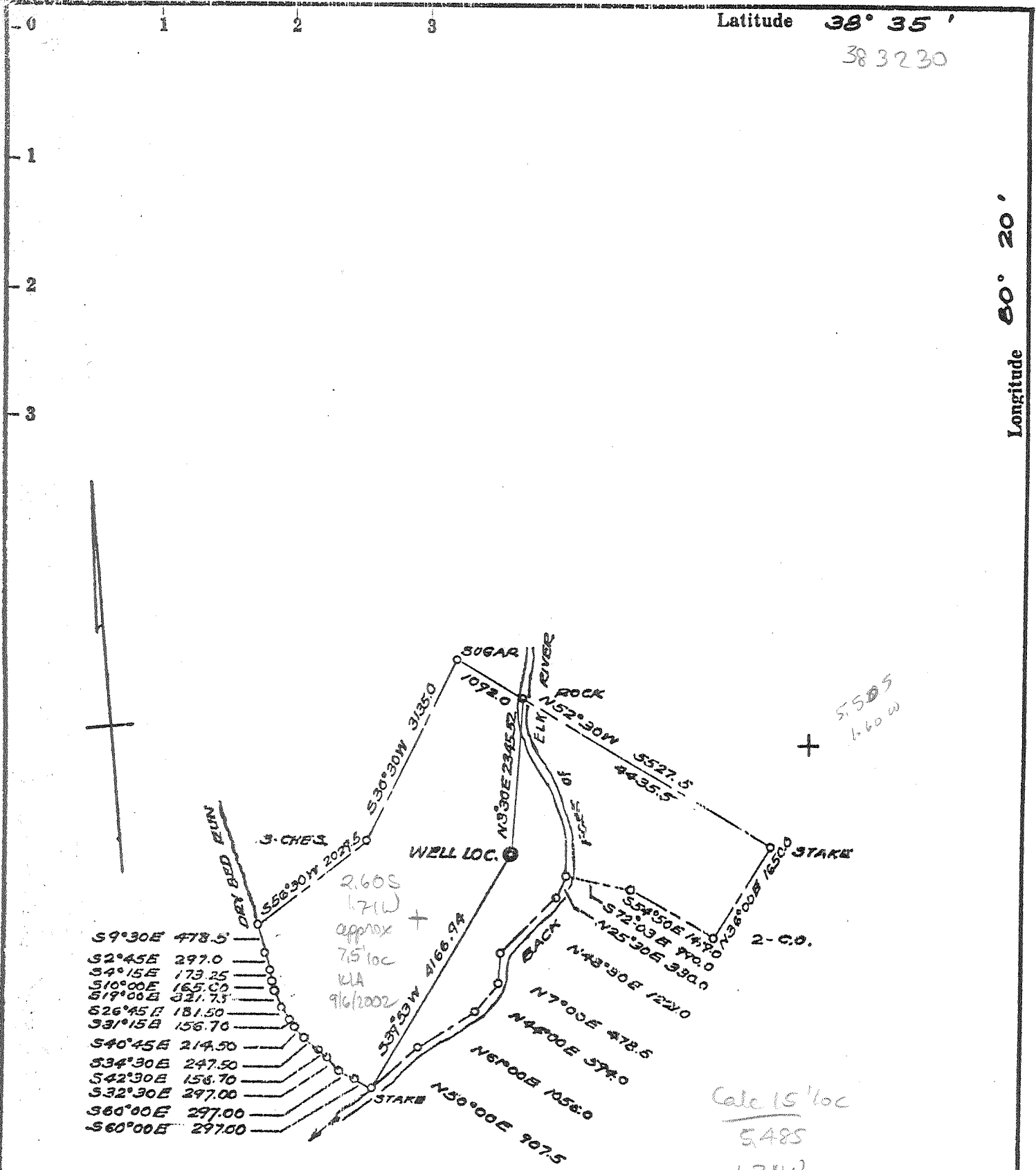


4/19/67 CEN



Fracture...
 Redrill...
 New Location...
 Drill Deeper...
 Abandonment...

Source of Elevation U.S.G.S. B.M. 5CMP, 1964 El. 1868.00

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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 200'

NOTE: THIS WELL IS BELOW COAL BEDS IN THIS AREA.

Company CRAMON STANTON, INC.
 Address 2229 CHAMBER OF COMMERCE BUILDING, HOUSTON, TEXAS, 77002
 Farm PARDEE & CURTIN LUMBER CO.
 Tract 264-4 Acres 509.56 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1625.00 *Stalt 75' grad*
 Quadrangle HACKER VALLEY
 County WEBSTER District FORK LICK
 Engineer E.M. Morton
 Engineer's Registration No. 1941
 File No. _____ Drawing No. _____
 Date 1-8-1968 Scale 1" = 2000'

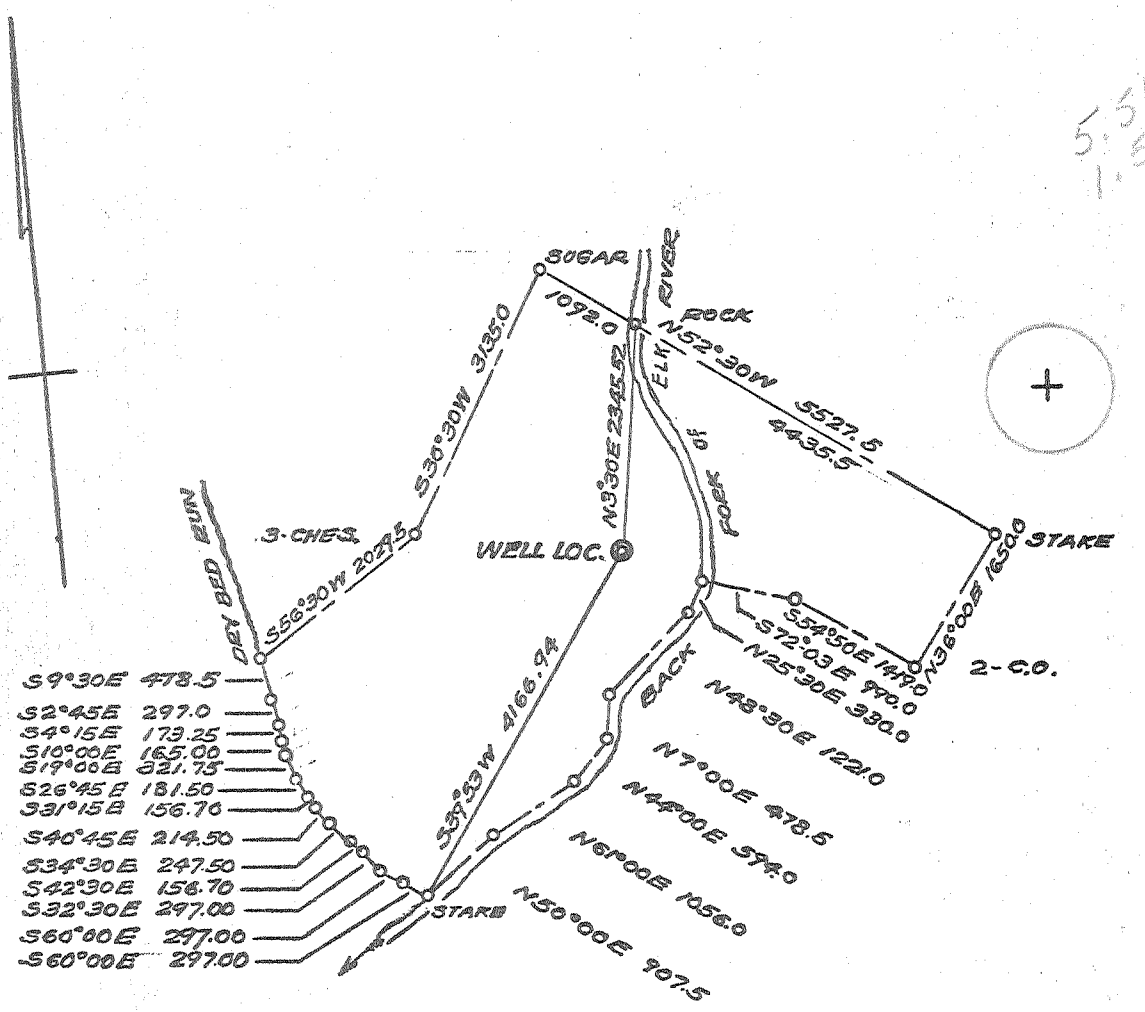
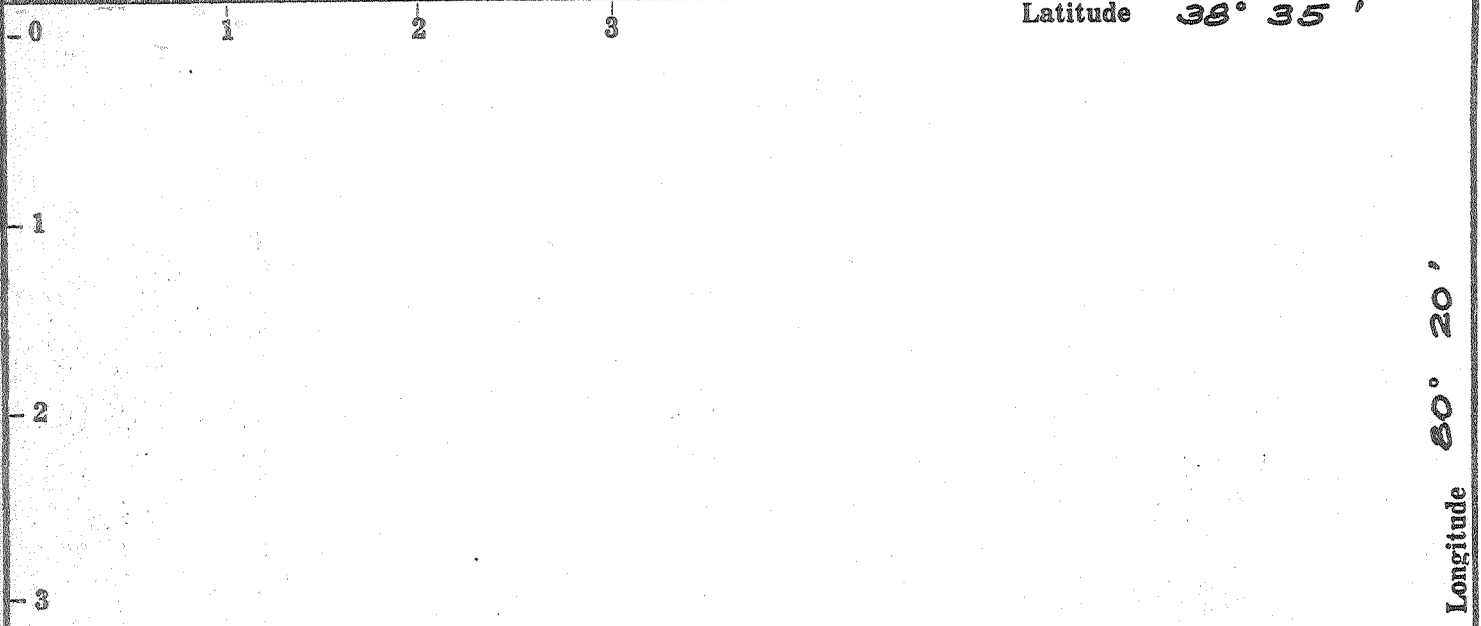
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. WEB-55-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.

DEEP WELL



Fracture...
 Redrill...
 New Location:
 Drill Deeper...
 Abandonment... *initial* 10-27-69

Source of Elevation U.S.G.S. B.M. 5CMP, 1964 El. 1868.00

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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 200'

NOTE: THIS WELL IS BELOW COAL BEDS IN THIS AREA.

Company CRAMON STANTON, INC.
 Address 2229 CHAMBER OF COMMERCE BUILDING, HOUSTON, TEXAS, 77002
 Farm PARDEE & CURTIN LUMBER CO.
 Tract 264-4 Acres 509.56 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1625.00
 Quadrangle HACKER VALLEY 5C
 County WEBSTER District FORK LICK
 Engineer E.M. Morton
 Engineer's Registration No. 1941
 File No. _____ Drawing No. _____
 Date 1-8-1968 Scale 1" = 2000'

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

WELL LOCATION MAP
 FILE NO. WEB-55-P

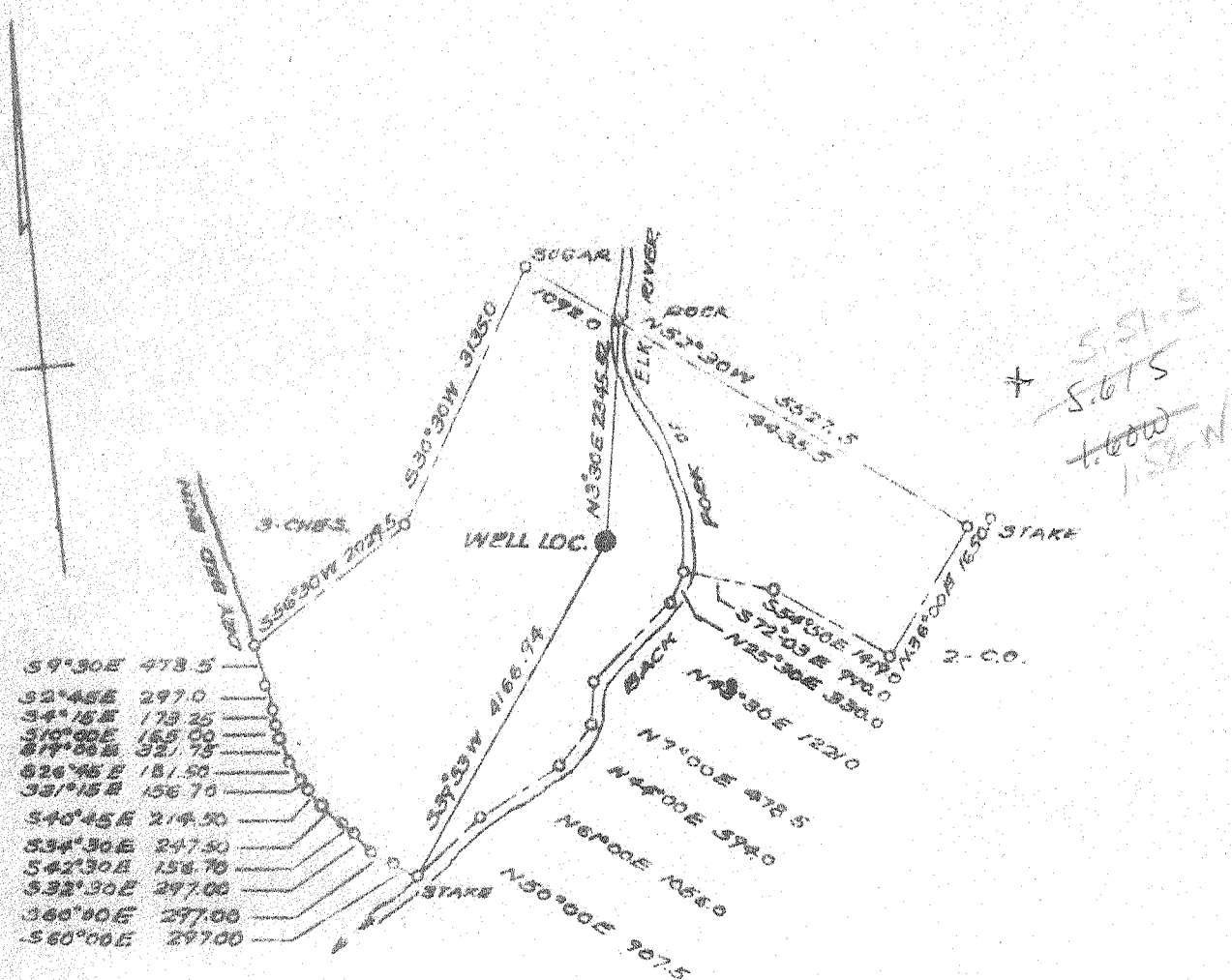
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

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

Deep Well (Tusc.)

Latitude 38° 35'

Longitude 80° 20'



- Fracture...
- Redrill...
- New Location
- Drill Deeper...
- Abandonment...

Source of Elevation U.S.G.S. BM 5CMP, 1964 El. 1868.00

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 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 200.
 NOTE: THIS WELL IS BELOW COAL BEDS IN THIS AREA.

Company CRAMON STANTON, INC.
 Address 2229 CHAMBER OF COMMERCE BUILDING, HOUSTON, TEXAS 77002
 Farm FARDEE & CURTIN LUMBER CO.
 Tract 264-4 Acres 509.56 Lense No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1625.00
 Quadrangle HACKER VALLEY SC
 County WEBSTER District FORKLICK
 Engineer E. M. MORTON
 Engineer's Registration No. 1941
 File No. _____ Drawing No. _____
 Date 1-8-1968 Scale 1" = 2000'

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

WELL LOCATION MAP
 FILE NO. WEB-55

+ 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.

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Deep Well (Tuscarora) JAN 29 1968

Log Taps

Greenbrier 440-75
 Huntersville 6084
 Criskany 6270
 Heldeberg 6420
 Rock Salt 7060-82
 Rose Hill 7942
 Misc. 8314-8407
 " 8473-8650
 Jun 8650

Temp. dropped. See Scout Report 7/5/68

8650
 1625

 7025

6084
 1641

 4443



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Hacker Valley

WELL RECORD

Permit No. Web-55

Oil or Gas Well DRY (KIND)

Company CRAMON STANTON, INC.
Address 2049 Chamber of Commerce Bld.
Houston, Texas
Farm Pardee-Curtin Lumber Co. Acres 509.56
Location (waters) Back Fork of Elk River
Well No. 1 Elev. 1625 gl
District Fork Lick County Webster
The surface of tract is owned in fee by Oriskany
Robt. & John Moore et
Webster Springs, W. Va.
Mineral rights are owned by Pardee & Curtin Lum. Co.
Curtin, W. Va.

Drilling commenced Feb. 1, 1968
Drilling completed March 29, 1968
Date Shot no From To
With

Open Flow /10ths Water in Inch
 /10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS) Oriskany
20,000 gals -(Show)
WELL FRACTURED (DETAILS) Onondaga-61,000 gals 3% acid & 60,000# sand (show)
Marcellus - 1125 Bbls., 34000 # sand (show)

RESULT AFTER TREATMENT (Initial open Flow or bbls.)
ROCK PRESSURE AFTER TREATMENT HOURS
Fresh Water 30', 265', 296', 1250' Feet
Salt Water 4920', 8630' Feet
Producing Sand Depth 8683'

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16 20"	30	30'	
13.	265	265'	
16 9 5/8"	3661	3561'	Size of
8 1/4			
16 7"	6597	6597'	Depth set
5 3/16			
4 1/2			
3.			Perf. top
2.			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags) 13" - 275 sks., 9" - 1210 sks.
Name of Service Co. 7" 270 sks. (1349" to Surface)
COAL WAS ENCOUNTERED AT FEET INCHES
Above well location
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
sand&shale			0	295			
sand			295	300			
shale, limy			300	390			
sand, limy			390	420			
shale			420	500			
lime (BIG)			500	720			
shale, sandy			720	740			
shale, sandy			740	775			
shale	red		775	850			
shale	red&gr.		850	900			
shale, sandy			900	910			
shale			910	920			
sand			920	970			
shale			970	1000			
shale, sandy	red		1000	1040			
shale			1040	1060			
shale, sandy	red		1060	1080			
shale			1080	1100			
shale, sandy			1100	1120	gas show	1107'	
sand			1120	1180			
shale			1180	1200			
shale, sandy			1200	1220			
sand			1220	1340	F. Water	1250'	

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
shale			1340	1360			
sand			1360	1460			
shales, sandy shales			1460	3600			
siltstones, shales			3600	5600	water	4920'	
shale			5600	5780			
shale	clk gy		5780	6008			
Marcellus	black		6008	6084			
Onondaga			6084	6275			
Oriskany			6275	6420			
lime			6420	7082			
dolomite			7082	7760			
hematite			7760	7782			
dolomite			7782	7942			
Rose Hill			7942	8314			
Tuscarora			8314	8650	Gas show	8620'	
Juniata			8650		Water	8630-40'	
TD			8683 1/2'				

65

6270
1641
4670

Webster 55
Tops from Gamma Ray log (CEM)
Elev. 1641 KB
T. Greenbrier 440
B. Greenbrier 745
SG 1107
F Water 1205
SW 4920
T. Blk Shale 5780
T. Limy Shale (Marcellus ?) 5888
T. Huntersville 6084
T. Oriskany 6270
T. Helderberg 6420
Rock Salt 7060-82?
Possible WLMP 7490-7509
Red hematite 7760-82
Top Rose Hill 7942
U. Tuscarora 8314-8407
L. Tuscarora 8473-8650
Good show gas 8620

Date 10/26, 19 69

APPROVED CRAMON STANTON, INC. Owner

By C.E. Moore Geologist
C.E. Moore (Title)

Cramon Stanton base Web's Co.
Phone comm. 5-4 65 J.M/mg
FeO 600 PPM 7mm

Tus. 60 m to 70 m. FeO

Let Csq. below Or.

Pr. w. wire

Wat. From Tus. 6000 ppm FeO

~~after Or.~~

Plug in Csq.

1. tree Oris.

clean up for 3 days

110 m. + little water

5-6 m PPM FeO

water was red.

2. sep. Cher. & Oris. w/ 2 plugs
frac. cher.

CG about a wk.

± 2000 mcf

few days later good salt wat.

115-120 m PPM Cl

5-6 m PPM FeO

also red color

Put out plugs

Pr. below Orisk.

Press to 3000# holding

1. 1. 1.

Pk moved up to same spot where plugs had been set btwn chert & Oris.

P to 2000# (TP 2300# for both)

IR 3 RPM

Flow from Ann. 1 RPM

flow reversed with same results

set above chert

Injection test w/ no leak to ann.

Pull tube

Schlumber Bond - said no Cem.

Bird - tracer - shows all inj in perf. & Res.

Bird - Run bond.

shows pays bonded

Reasonable assum. Form. frac. provided zone of Cem.

Chert Sw 40%

Orisk 20%

Chert sh. & Kan. frac.

Summary

Logs indicate very good well. 16 bill
reserves for 320 psc

Rw used .02 too low
should have used $\pm .0365$

water from tus. tested 60-70 m ppm FeO
and very red.

water from Ous-Cher. ~~test~~ after treat.
showed 6 m ppm and red

Schlem. Bond log shows no bond

Bird - Bond shows Bond ok

traces shows fluid entering
Chert and Ouis Res. three feet.

no loss anywhere.

My conc. - water after treat is coming
from Cher & Ouis. in hole
should be above.