COMMONWEALTH OF VIRGINIA

W#: 3277 C#: 142

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES OFFICE ADDRESS:

Br 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

C. Jottesville, VA 22903 WATER WELL C	OMPLETION REPORT Charlottesville, Virginia
OWNER: Humble Oil refining Company	8201 Hampton Blvd. Mailing Address: Norfolk, VA
TENANT: Humble Oil Refing Co.	Rt. 95 - Lewistown Rd.
DRILLER: Sydnor Hydrodynamics, Inc.	Box 27186
WELL LOCATION: County Hanover	Approx. 127 feet North (direction) of
Lewistown Road and 1000	feet west west (direction) of Interstate 95
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TO COUNTY HIGHWAY OR OTHER MAP.)	TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC - ON
DATE STARTED: April 28, 1971	DATE COMPLETED: May 7, 1971
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTH 250 feet
WATER LEVEL: Stands 8 feet below	surface <u>OR</u>
has NATURAL flow of_	gallons per minute.
YIELD TEST: Method Submersible pump	HOLE SIZE: 11 inches from 0 to 87 feet
Drawdown 204 feet	6_inches from _87to _250feet
Rate 2.4 gal. per min.	inches fromtofeet
Duration 6 hrs., min.	SCREEN SIZE:inches fromtofeet
WATER ZONES: fromfeet	inches fromtofeet
fromtofeet	inches fromtofeet
fromtofeet	CASE SIZE: 6 inches from +1'6"to 87 feet
WATER: Color Clear Taste	inches fromtofeet
Odor	inches fromtofeet
WELL TO SUPPLY:(check one) Home	GROUTING: MethodPressure
Farm Town School	Material Concrete WorkDepth 87 feet
IndustryXXXOther	PUMP: Type
WATER ANALYSIS AVAILABLE:YesNo_xx	Capacitygal_per_min
DRILL CUTTINGS SAVED: 25	Depth of intakefeet
	INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS
R ARKS:	

FURNISHED BY: Sydnor Hydrodynamics, (C. Thomas) DATE: 5/19/71

DEPTH (feet)		TYPE OF ROCK OR SOIL PENET	RATED REMARKS
FROM	то	(gravel, clay, etc., hardness, color	(water, caving, shot, screen, sample, etc.)
0 20 21 40 45 86	20 21 40 45 86 100	Blue clay Brown sand Blue clay Blue clay - gravel Blue clay White and black granite Gray granite (water entered	EWINT Unwile Oil Refing Co. Life Sydnor Hydrodynamics, Inc. Euc Locaron Holder Henover Lewistown Road ('All
114	120 250	Light gray granite Dark gray granite	1968 42-10 M YES AR MEZICO
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121 73	8	Concrete Work	0118net0
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2-14 Or	Trace of		

W-3277

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Box 3667

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

WATER WELL COMPLETION REPORT

McCormick Road

Production and the second seco	8201 Hampton Blvd.
OWNER: HUMBLE OIL REFINING COMPANY	
TENANT: Humble Oli Refining Co.	Mailing Address: Rt. 95 - Lewistown Road, Richmo
DRILLER: Sydnor Hydrodynamics, Inc.	Mailing Address: Box 27186, Richmond, Va. 23261
WELL LOCATION: County Hanover	Approx. 127 Mile's North (direction) of
Lewistown Road and 1000	feet West (direction) of Route 95
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TO COUNTY HIGHWAY OR OTHER MAP.)	WO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: April 28, 1971	DATE COMPLETED: May 7, 1971
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTH 250 feet
WATER LEVEL: Stands feet below	surface <u>OR</u>
has <u>NATURAL</u> flow of_	gallons per minute.
YIELD TEST: Method Submersible	HOLE SIZE: 11 inches from 0 to 87 feet
Drawdownfeet	
Rate 2.4 gal. per min.	inches fromtofeet
Duration 6 hrs., min.	SCREEN SIZE:inches fromtofeet
WATER ZONES: from 114 tofeet	inches fromtofeet
fromtofeet	inches fromtofeet
fromfeet	CASE SIZE: 6 inches from 116" to 87 feet
WATER: ColorTaste	inches fromtofeet
OdorTemp°F	inches fromtofeet
WELL TO SUPPLY: (check one) Home	GROUTING: MethodPressure
Farm Town School	Material Concrete Work Depth 87 feet
Industry X Other	PUMP: Type
WATER ANALYSIS AVAILABLE: YesNo_X	Capacitygal per min
DRILL CUTTINGS SAVED: YES X NO (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISH	
REMARKS: Driller - Charles Thomas	No.
YELLOW TAVERN QUADRAN	IGLE
ELEV. : 208'	

VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Рa	ge	1		of	1			Well Repository No: W#: 3277	
Da	te	rec'd	l: 6/21/	71	Date	Processed:	10/14/71	C#: 142 Sample Interval: from: to: 0 250	
PR	OP	ERTY:	Humble	Oil	& Ref.	Co.		Number of samples: 25	
CO	MP	ANY:	Sydnor	Hydr	odynam	ics		Total Depth: 250'	
CO	UN	TY:	Hanover (Richmo					Oil or Gas: Water: Exploratory:	
Fr	om	-To		Fre	om-To		From-To	From-To	
0	_	10			_		_	-	
10	_	20			-		-	''	
20	-	30			-		_	-	
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210		20			_		_	-	
220		30			_		_	-	
230					_		=		
5-75		22.00							

All intervals have both washed & unwashed samples.

240 - 50

OWNER: Humble Oil & Ref. Co.

COUNTY: Hanover (Richmond)

DRILLER: Sydnor Hydrodynamics COUNTY: Hanover

W#: 3277 C#: 142

TOTAL DEPTH: 250' QUAD: Yellow Tavern

GEOLOGIC LOG

Depth (feet)	
0 - 10	Sand yellowish gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
10 - 20	Sand olive light gray; moderate clay; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
20 - 30	Sand light olive gray; slightly clayey; fine grained, some medium grains, few granules; subangular to subrounded; moderately well sorted; quartz; some feldspar; few flakes of muscovite.
30 - 40	As above plus 5% pebbles.
40 - 50	Sand light olive gray; slightly clayey; fine grained; subangular to subrounded; well sorted; quartz; some weathered biotite; few black phosphatic fragments; muscovite.
50 - 60	As above.
60 - 70	As above.
70 - 80	As above except 3% biotite.
80 - 90	Granite (weathered) light gray; moderate clay; quartz; white potassic feldspar; 25% biotite; few flakes of muscovite.
90 - 100	As above.
100 - 110	Granite (slightly weathered) light olive gray; equigranular; quartz; white potassic feldspar; 15% biotite.
110 - 120	Granite salt and pepper; quartz; white potassic feldspar; 15% biotite; some muscovite; few grains of pyrite.
120 - 130	As above except 20% biotite; few flakes of muscovite.
130 - 140	As above except 30% biotite; no pyrite.
140 - 150	As above.
150 - 160	Granite salt and pepper; equigranular; quartz; white potassic

feldspar; 25% biotite; few flakes of muscovite.

Depth (feet)

160 - 170 As above except 15% biotite.

170 - 180 As above.

180 - 190 As above except 20% biotite.

190 - 200 As above.

200 - 210 Granite -- salt and pepper; quartz; white potassic feldspar; 25% biotite; few flakes of muscovite; pyrite.

210 - 220 As above except 35% biotite; no pyrite.

220 - 230 Granite -- salt and pepper; quartz; white potassic feldspar; 15% biotite; some muscovite.

230 - 240 As above except 25% biotite.

240 - 250 As above.

Logged by: Michael T. Currie Jan. 22, 1979

OWNER: Humble Oil Co. & Ref. Co. W#3277 Depth Thickness Rock Unit TimeRock Unit

Sollo 10 Columbia Group Pleistocene

20-80 60 Eastered & Formalian Miocena GEOLOGIC SUMMARY 80-250 170 Petersburg Granite Paleozoic ?) David A. Hubbarl, Tr. Geologist February 2, 1978