



CITIES SERVICE OIL 1 MORRISON ETAL 38.50 81.45 D D  
 \*\* 1056 21400 S 9100 W RIPLEY  
 637 GR 0  
 SPUO 04/04/63 COMP 06/28/63 D-A  
 CSG 16 AT 24 13 3/8 AT 507W/ 80  
 10 3/4 AT 1090 7 AT 2360W/ PKR  
 LTD 4765 PB 4731  
 DRLR --- TOP --- --- DRLR --- TOP --- ---  
 B' LM 1685 1768 BERE G 2324 2338  
 BERE G 2324 2338 LOG --- TOP --- ---  
 LOG --- TOP --- --- LOG --- TOP --- ---  
 BR SH 4370 4580 ORISK 4680 4713  
 CORNF 4586 4680  
 MAP QUAD RAVENWOOD PROJ DEPTH ORISKANY AC 126  
 CARTER COORD 19-88-93  
 SERIAL NO GW-1402  
 5/09 CSG AT 2330 NOT TESTED  
 5/23 CSG AT 3850, BROWN SHALE  
 6/06 GAS AT 4680 TSTD 15 MCF, 4690-4709 TSTD 51 MCF  
 6/13 CSG 4 1/2 AT 4765 W/PKR AT 4688, CMT ABOVE PKR  
 W/40  
 6/20 PERF ORISK AT 4715  
 6/27 SDFRACT. TSTD 103 MCFGPD  
 7/03 GAS BLEW DOWN TO 94 MCFGPD  
 D-A  
 COMPLETED

*Helderberg* TOP 4713

T.O. (485)

Latitude 38° 50'

THE ACCURACY OF THIS SURVEY IS WITHIN THE LIMITS PRESCRIBED BY THE OIL AND GAS DIVISION OF THE DEPARTMENT OF MINES.

NOTE - ELEVATION TAKEN FROM U.S.C.G. X-106 ELEVATION 657.21' ABOUT .7 MILES S.W. ALONG STATE HIGHWAY 87 FROM JUNCTION U.S. HIGHWAY 33 AT EVANS, W.VA., THENCE 2.7 MILES NE ALONG GRAVEL ROAD LEADING TO GIVEN, W.VA., ABOUT 1.2 MILES NW OF BRIDGE OVER GRASS RUN, 85 YARDS NE OF N-S CROSS ROAD IN SHARP CURVE IN GRAVEL ROAD LEADING TO MT. MORIAH CHURCH.

Longitude 81° 45'

PAUL E. MCINTYRE

RAY W. MORRISON

ORVILLE WALKER

D.L. MORRISON  
WU-187 126 AC

1.71 W  
4155

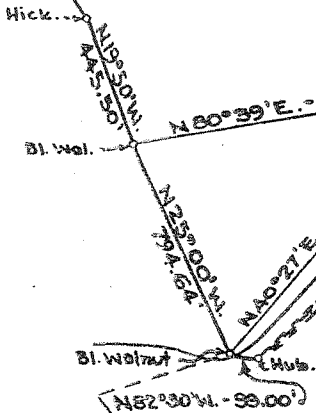
GRASS RUN

GW-1402

GUS HARRAH  
100 AC

C.L. HARDMAN

V.N. KOONTZ  
68.5 AC



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.

*W. J. Moore*

- New Location
- Drill Deeper
- Abandonment

Company CITIES SERVICE OIL COMPANY  
 Address BOX 373 CHARLESTON, W.VA.  
 Farm D.L. MORRISON ET AL  
Pr. 294.52 Block  
 Tract \_\_\_\_\_ Acres 126 Lease No. WU-187  
 Well (Farm) No. 1 Serial No. GW-1402  
 Elevation (Spirit Level) 637.21' SE  
 Quadrangle RAVENSWOOD 7 S412 W176  
 County JACKSON District RIPLEY  
 Engineer *W. J. Moore*  
 Engineer's Registration No. 2113  
 File No. \_\_\_\_\_ Drawing No. W-3-63  
 Date 15 FEB. 63 Scale 1" = 660'

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

WELL LOCATION MAP  
FILE NO. JAC-1056

+ 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.

*(Drisk) Deep well*



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Ravenswood 7

Permit No. Jac-1056

WELL RECORD

Oil or Gas Well Dry Hole  
(KIND)

Company Cities Service Oil Company  
Address P. O. Box 873, Chas. 23, W. Va.  
Farm D. L. Morrison Acres 126  
Location (waters) Roundknob Run  
Well No. 1-GW-1402 Elev. 637.21'  
District Ripley County Jackson  
The surface of tract is owned in fee by Dencil L. Morrison  
Juanita Morrison Address RD #1, Evans, W. Va.  
Mineral rights are owned by Gus Harrah  
Ramsey Rt., Victor, W. Va.

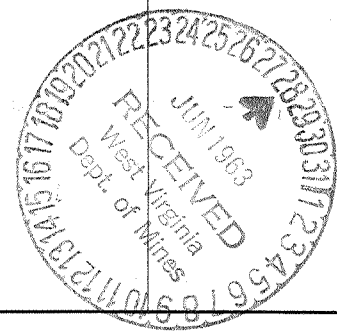
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Shell Steel
16" 65#	24'1"		Kind of Packer
13"-3/8" 48#	502'6"		Midget Btm. Hole
10"-3/4" 32#	75# 1082'2" pulled		Size of 7 x 8-5/8"
8 5/8" 24#	1746'	1746'	Depth set
7" 23#	2370'	pulled	2362' Dlm-2360'
4-1/2"	4765'	cemented in	Sim
3"			Perf. top
2-3/8"	4721'		Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Drilling commenced April 4, 1963  
Drilling completed May 31, 1963  
Date Shot - From - To -  
With -  
Open Flow /10ths Water in Inch  
/10ths Merc. in Inch  
Volume show of gas before fracing Cu. Ft.  
Rock Pressure 580 lbs. 72 before frac hrs.  
Oil - bbls., 1st 24 hrs.  
WELL ACIDIZED -

CASING CEMENTED - SIZE - No. Ft. - Date -  
1048-52'  
COAL WAS ENCOUNTERED AT - FEET 48 INCHES  
- FEET - INCHES - FEET - INCHES  
- FEET - INCHES - FEET - INCHES

WELL FRACTURED 5/10 W. 2" 94M - making 144 gal. fluid/24 hrs. after fraced -  
see reverse side for record  
RESULT AFTER TREATMENT 5/10 W. 2" 94M  
ROCK PRESSURE AFTER TREATMENT 65 hrs 975# B.H. -620# tbg.  
Salt 1072-87' 1/4-13" bph S. W. 1644' rises 200'  
~~Flow~~ Water 1322' 1-10" bph Feet S. W. 1820-38 Salt Water 2349' Feet 1-1/2 blrs/hr.  
1/2-8" bph

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil			0	8			
Sand			8	24			
Red Rock			24	70			
Sand			70	90			
Red Rock			90	149			
Slate			149	184			
Sand			184	205			
Red Rock			205	220			
Slate			220	271			
Red Rock			271	280			
Sand			280	307			
Red Rock			307	345			
Blue Slate			345	380			
Red Rock			380	390			
Slate			390	403			
Red Rock			403	486			
Sand			486	501			
Slate & Shells			501	552			
Red Rock			552	610			
Blue Slate			610	630			
Sand			630	652			
Slate			652	671			
Red Rock			671	692			
Slate & Shells			692	720			
Sand			720	740			
Slate & Shells			740	882			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock			882	915			
Blue Slate			915	1004			
Sand			1004	1048			
Coal			1048	1052			
Slate & Shells			1052	1072	S. Water	1072-87'	1/4-13" bph
Sand			1072	1087			
Slate & Shells	1090'	DLM	1087	1121			
Sand			1121	1210			
Slate & Shells			1210	1216			
Sand			1216	1254			
Slate & Shells			1254	1606	S. Water	1322'	1-10" bph
Sand			1606	1685	S. Water	1644'	rises 200'
Big Lime	1730'	DLM	1685	1768			
Big Injun Sand			1768	1790			
Lime			1790	1808			
Sand			1808	2155	S. Water	1820-38'	1/2-8" bph
Slate & Shells			2155	2293			
Shale			2293	2325			
Sand			2325	2336	Gas	2330'	show
Slate & Shells	2362'	DLM-					
	2360'	SLM	2336	3541	Salt water	2349'	1-1/2 blrs/hr.
Shale			3541	3720			
Slate			3720	3758			
Brown Shale	Huron		3758	4026	Gas	3850'	show
White Slate			4026	4370			
Brown Shale	Rhinestreet		4370	4580			
Black Lime			4580	4586			
Corniferous Lime			4586	4680	Gas	4680'	2/10 W. 1" 15M
Oriskany Sand			4680	4713	Gas	4690-4709'	24/10 W. 1" 52M
Lime			4713	4765'			
TOTAL DEPTH -----				4765'			
<b>Casing Record</b>							
4- 6-63	Ran 16" at 24'Dlm						
4-11-63	Ran 13-3/8" at 507'Dlm-4 sacks Aquagel/ with 80 barrels water - circ. & returns disp.						
4-17-63	Ran 10-3/4" at 1090'Dlm-run on shoe-aquagelled with 8 sacks. No circ. or returns						
4-23-63	Ran 8-5/8" at 1730'Dlm - aquagelled with 8 sacks						
4-30-63	Ran 7" at 2362'Dlm-2360'Slm on Midget Bottom Hole packer - aquagelled with 8 sacks - circ. and returns						
5-31-63	Ran 4-1/2" to 4765' - Anchor packer at 4688' - cemented in with 40 sacks.						
Logs run:	( Berea) Birdwell Temperature, Guard, Gamma Neutron and Density (Oris.) Schlumberger Temperature, Gamma Ray, Neutron, Density & Induction						
<b>Fracing Record</b>							
Notched 4-1/2" at 4715-1/2'.	580# 72 hrs. Show of gas before fracing. Fraced 6-10-63 pumped in 500 gal. MCA, 1,000 gal. reg. acid. Pumped in at 3800#. Used 16,700# sand, 5000 bbls. sand laden fluid. Max. press. 4650#. Making 144 gal. water in 24 hr period and 5/10 W. 2" 94 Mcf,						

Date 6-28-63, 19

APPROVED Cities Service Oil Co., Owner

By W. S. Moore, Div. Supt.  
(Title)