

PREPARED BY W.W. KELLY & L.D. HARRIS

DM Form 7

(To be filled in by
Division of Mines)

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF LABOR AND INDUSTRY

(To be filled in by
Division of Mines)

Russell
County

Castlewood
District

Hansonville
Map

RU - 7
File

DIVISION OF MINES

BIG STONE GAP, VIRGINIA

DEEPEINED
OIL AND GAS WELL COMPLETION REPORT
ABANDONMENT

Well No. 1

Permit No. 256

Office No. _____

Location Plat _____

(This report and a copy of electrical log, if made, must
be submitted to the Division of Mines within 30 days after
abandonment or completion of well, as required by Section
45-113, Code of Virginia, 1950.)

Company Gulf Oil Corporation

Address P. O. Box 12116
Oklahoma City, Oklahoma 73112

Farm W. Russell Price

Acres 88.1306

County Russell

District Castlewood

Well No. (Company) 1

Elevation (ground surface) 2246.01 ft.

Location: (Give direction and distance in feet or tenths of a mile from two (2) location reference points or map coordinates shown on location plat or map previously filed with the Division of Mines or shown on quadrangle topographic map of area.)

900 feet ~~miles~~ South of Latitude 36° 52' 30" and

8,525 feet ~~miles~~ West of Longitude 82° 12' 30"

Surface of tract is owned in fee simple by W. Russell Price

Address Rt. 1, Box 249, Castlewood, Virginia, 24224

Mineral rights are owned by W. Russell Price

Address Rt. 1, Box 249, Castlewood, Virginia, 24224

Location made by Frank A. Carpenter, C.L.S. Lebanon, Virginia, 24266

Drilling commenced 12-14-76 Drilling contractor Parker Drilling Company

Drilling completed 5-23-77 Address Parker Bldg., 3rd & Main, Tulsa, Okla., 74103

Well completed as ^{gas}oil well on Dry Hole

Well abandoned at 17,003 feet on 7-2-77; Reason Non-Commercial

Well plugged on 7/2/, 19 77 Affidavit filed 8-3-, 19 77

Total depth 17,003 feet. Steel line measurement _____ feet.

Commenced producing on _____, 19 _____

Oil Well

Initial production, oil: 1st 24 hours _____ bbls.; 2nd 24 hours _____ bbls.

After shot on _____ from _____ feet to _____ feet with _____ lbs. qts.

After shot on _____ from _____ feet to _____ feet with _____ lbs. qts.

1st 24 hours _____ bbls.; 2nd 24 hours _____ bbls.

Settled production _____ bbls. per day after producing _____ days weeks

Gravity and grade of oil _____

Oil pays at (1) _____ feet to _____ feet. Oil shows at (1) _____ feet to _____ feet.

(2) _____ feet to _____ feet. (2) _____ feet to _____ feet.

(3) _____ feet to _____ feet. (3) _____ feet to _____ feet.

(4) _____ feet to _____ feet. (4) _____ feet to _____ feet.

Main production at _____ feet to _____ feet. (5) _____ feet to _____ feet.

Gas Well

Gaged _____/10ths. Water in _____ inch.

Initial open flow, gas: _____/10ths. Mercury in _____ inch.

Volume _____ cu. ft.

After shot on _____ from _____ feet to _____ feet with _____ lbs. qts.

After shot on _____ from _____ feet to _____ feet with _____ lbs. qts.

1st 24 hours _____ cu ft., 2nd 24 hours _____ cu ft.

VDMR Well No.: W-5653

PV-007

Operator: Gulf Oil Corporation
 Farm: W. Russell Price
 Well No.: 1
 Location: Russell County
 900' S. of 36°52'30"
 8525' W. of 82°12'30"
 Elevation: 2246.01' Gr.
 Total Depth: 17,003'
 Drilling Commenced: December 14, 1976
 Drilling Completed: May 23, 1977
 Result: Not completed, considered dry hole.
 Plugged on July 2, 1977

<u>Formation*</u>	<u>Top (feet)</u>	<u>Bottom (feet)</u>
Copper Ridge Dolo. Several thrust blocks with various lithologies	Spudded in 0	7900
Clinchport Fault	2100	
Fault (?)	2450	
Hunter Valley Fault	6835	
Pine Mt. Thrust	7900	
Chattanooga Sh.	7900	8010
Onondaga Ls.	8010	8130
Tonaloway Ls.	8130	8206
Hancock Dolo.	8206	8390
Clinton Sh.	8390	8730
Clinton Ss. Poor Valley Ridge Mem.	8730	8840
Hagan Sh. Mem.	8840	8926
Sequatchie Fm.	8926	9178
Reedsville Sh.	9178	9700
Trenton Ls.	9700	10,354
Eggleston Ls.	10,354	10,530
Hardy Ck Ls.	10,530	10,695
Ben Hur Ls.	10,695	10,850
Woodway Ls.	10,850	11,020
Hurricane Bridge Ls.	11,020	11,350
Martin Ck. Ls.	11,350	11,456
Rob Camp Ls.	11,456	11,552
Poteet Ls.	11,552	11,630
Dot Ls.	11,630	11,784
Mascot Dolo.	11,784	12,165

8000
8200

420

Lsi

425

LO+MO

485

LO

9000 Mc
9200

	<u>Formation</u>	<u>Top (feet)</u>	<u>Bottom (feet)</u>
	Kingsport Dolo.	12,165	12,334
	Longview Dolo.	12,334	12,490
500	Chepultepec Dolo.	12,490	12,998
	Copper Ridge Dolo.	12,998	13,550
	Maynardville Ls. Chance		
	Branch Dolo. Mem.	13,550	13,615
	Low Hollow Ls. Mem.	13,615	13,662
515	Nolichucky Sh.	13,662	14,112
	Maryville, Ls.	14,112	14,653
	Rogersville Sh.	14,653	14,680
	Rutledge Ls.	14,680	14,940
	Rome Sh.	14,940	15,890
	Shady Dolo.	15,890	16,500
570	Erwin Qtzite	16,500	16,646
	Granite Wash	16,646	17,003

TOTAL DEPTH

Remarks: A few gas shows were encountered in the Middle Ordovician, primarily the Trenton Limestone, between 9,900' and 11,400' and these zones were acid fractured. Final openflow after cleanup was less than 100 MCF and the well was determined to be non-commercial and was plugged as a dry hole.

* From completion report supplied by operator.

TREATMENT & DST RECORD

GULF OIL - W.R.PRICE WELL NO. 1

6-14-77

Eggleston - Hardy Creek - Ben Hur - Mid-Ord Ls

TREATMENT: 11,407' - 10,458' perforated 44 holes Set HOWCO RTTS Packer at 11,407', Spot 42 bbls 7% HCl acid across perms. Reset Packer @ 10,410, Pump 12,000 gal. versa gel and 12,000 gal. 28% HCl acid in 3 equal stages. All fluid contained 100 SCF N₂/bbl. Flush with 120 bbl water. Max. PSI-7600, Ave. PSI-6600, Ave. Rate 10 BPM, ISIP-5800 PSI, 10 min- 4200 PSI. Flowed well & swabbed 6-15-77 to 6-20-77. Install orifice test 4" mercury - 1" plate-180 MCF. Shut in for buildup 6¼ hrs. - 220 PSI.

6-20-77

Trenton

TREATMENT: 10,354' - 9,696' perforated 237 holes. Set Baker CIBP @ 10,440'. Set Baker Packer @ 9,650'. Broke formation at 5700 PSI. Pump down 3½" DP with 3 equal stages of 4,000 gal versa gel with 4,000 gal. 28% HCl acid, 1000 gal. F-water, 1000 SCF N₂/bbl fluid. Used 200 sealer balls spaced between stages. Max. PSI - 6500, Ave. PSI - 6300, Ave. Rate - 8 BPM, ISIP - 4800 PSI, 10 min. - 4500 PSI. Flowed well & swabbed 6-20-77 to 6-22-77. Gas volume less than 100 MCFD.

6-23-77

Drilled out cement and Bridge Plug at 10,440. Drill Stem Test on both zones together. 6-23-77 Ran HOWCO DST tools & set packer @ 9,666'. -5 min. IFP-1455#, 1 hr. ISIP - 2959#, 2 hr. FFP. -2906#, 2 hr. FSIP 3336#. Gas to surface when tool opened on final flow; after 1½ hrs. small stream water & steady gas volume of less than 100 MCFD.

DST - 6-24-77: Ran HOWCO DST tools & set packer @ 9658'. IHP - 4256#, IFP - 1520#, FFP - 2201#, FHP - 4197# In 24 hr. test - 35 BW, no water last 7½ hrs. of test, Gas volume less than 100 MCFD.

LOG

Furnished by _____ Date _____

Compiled by L. Harris, B. Kelly Date 5/5/78

Geologic Age	FORMATION	General Lithology	HARD OR SOFT	TOP (feet)	BOTTOM (feet)	THICKNESS (feet)	REMARKS OIL, GAS, WATER DEPTHS SHUT DOWN FISHING, ETC.
Cambrian	Copper Ridge	Dolomite		0	160	160	
	Maynardville	Dolomite		160	390	230	
	Nolichucky	Shale		390	527	137	
	Honaker	Dolomite		527	2051	1524	
	Rome	Shale		2051	2718	667	
	Clinchport Fault						
Cambrian	Honaker	Dolomite		2718	3750	1032	
	Rome	Shale		3750	6825	3075	gypsum 6450'-70' 6700'
	Shady	Dolomite		6825	7898	1073	gypsum 6825'-7400'
	Pine Mountain Fault						
Devonian	Marcellus	Shale		7898	8008	110	
	Onondaga-	Limestone		8008	8125	117	
	Huntersville	Chert					
	Oriskany	Sandstone		8125	8129	4	
	Heiderberg	Limestone		8129	8206	77	
Silurian	Hancock	Dolomite		8206	8380	174	
	Clinton	Shale		8380	8634	254	
	Clinch	Sandstone		8634	8842	208	
	Hagan	Shale		8842	8894	52	cored 8735'-42'
Ordovician	Sequatchie	Shale		8894	9132	238	
	Reedsville	Shale		9132	9698	566	
	Trenton	Limestone		9698	10,361	663	
	Eggleston	Limestone		10,361	10,535	174	
	Hardy Creek	Limestone		10,535	10,694	159	
	Ben Hur	Limestone		10,694	10,840	146	
	Mid. Ordovician	Limestone		10,840	11,716	876	cored 9712'-70'
	Mascot	Dolomite		11,716	11,990	274	
	Kingsport	Dolomite		11,990	12,226	236	
	Chepultepec	Dolomite		12,226	12,795	569	
Cambrian	Copper Ridge	Dolomite		12,795	13,390	595	
	Maynardville	Dolomite		13,430	13,652	222	cored 13,400'-422'
	Nolichucky	Shale		13,652	14,112	460	
	Maryville	Limestone		14,112	14,657	545	
	Rogersville	Shale		14,657	14,720	63	
	Rutledge	Limestone		14,720	14,938	218	
	Rome	Shale		14,938	16,245	1307	gypsum 15,590'-600' 15,750'-800' 16,100'-245'
	Shady	Dolomite		16,245	16,490	245	
	Basal Sand	Quartzite		16,490	16,646	156	gypsum 16,245'-646'
	Precambrian	Basement Complex	Metmorphics		16,646	17,003	357

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